

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P198896

Luminaire Tested: **XNV-AF-01-LED-U-SL4-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24284)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-SL4-7050-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6329 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

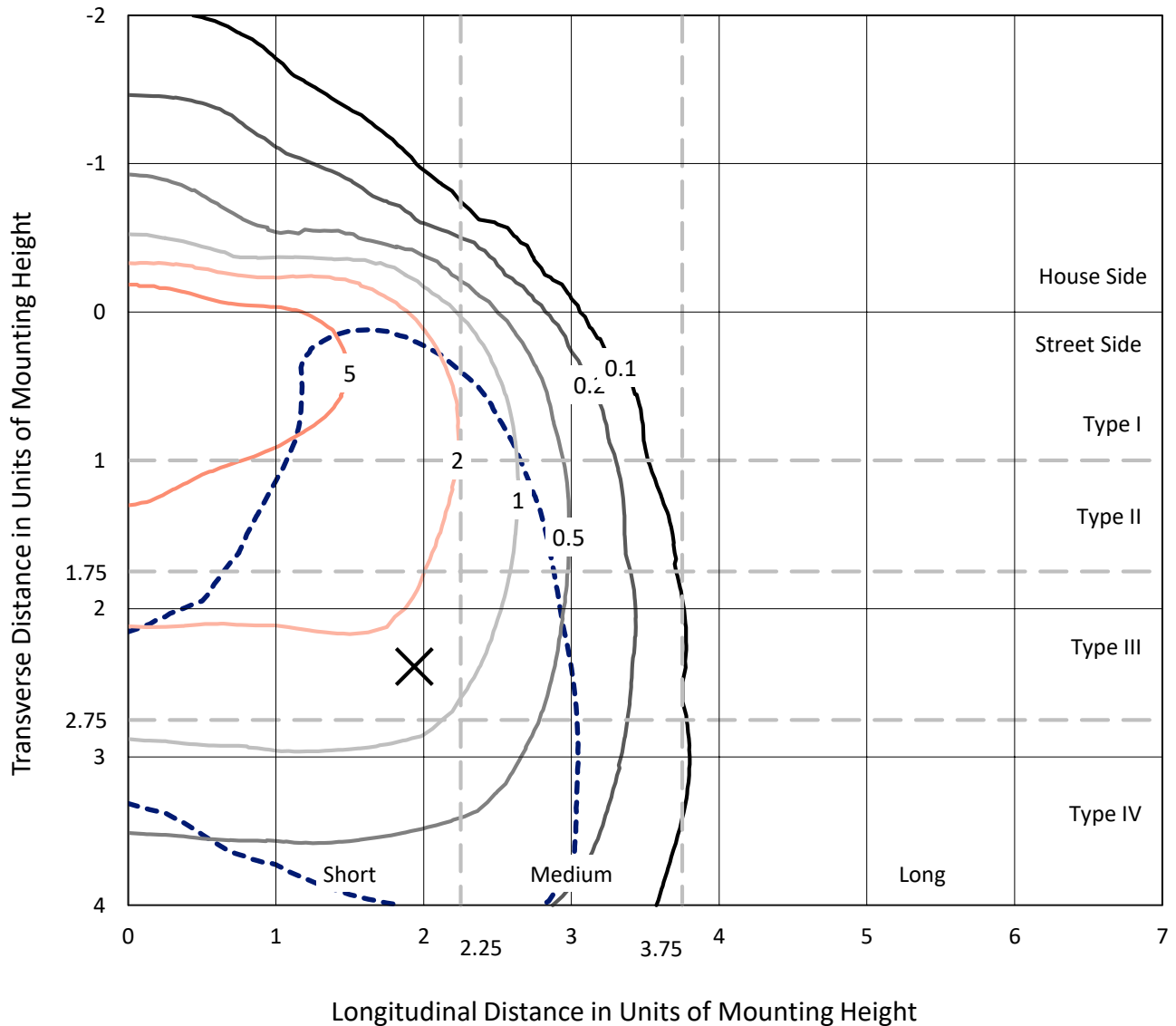
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P198896
 CATALOG NUMBER: XNV-AF-01-LED-U-SL4-7050-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

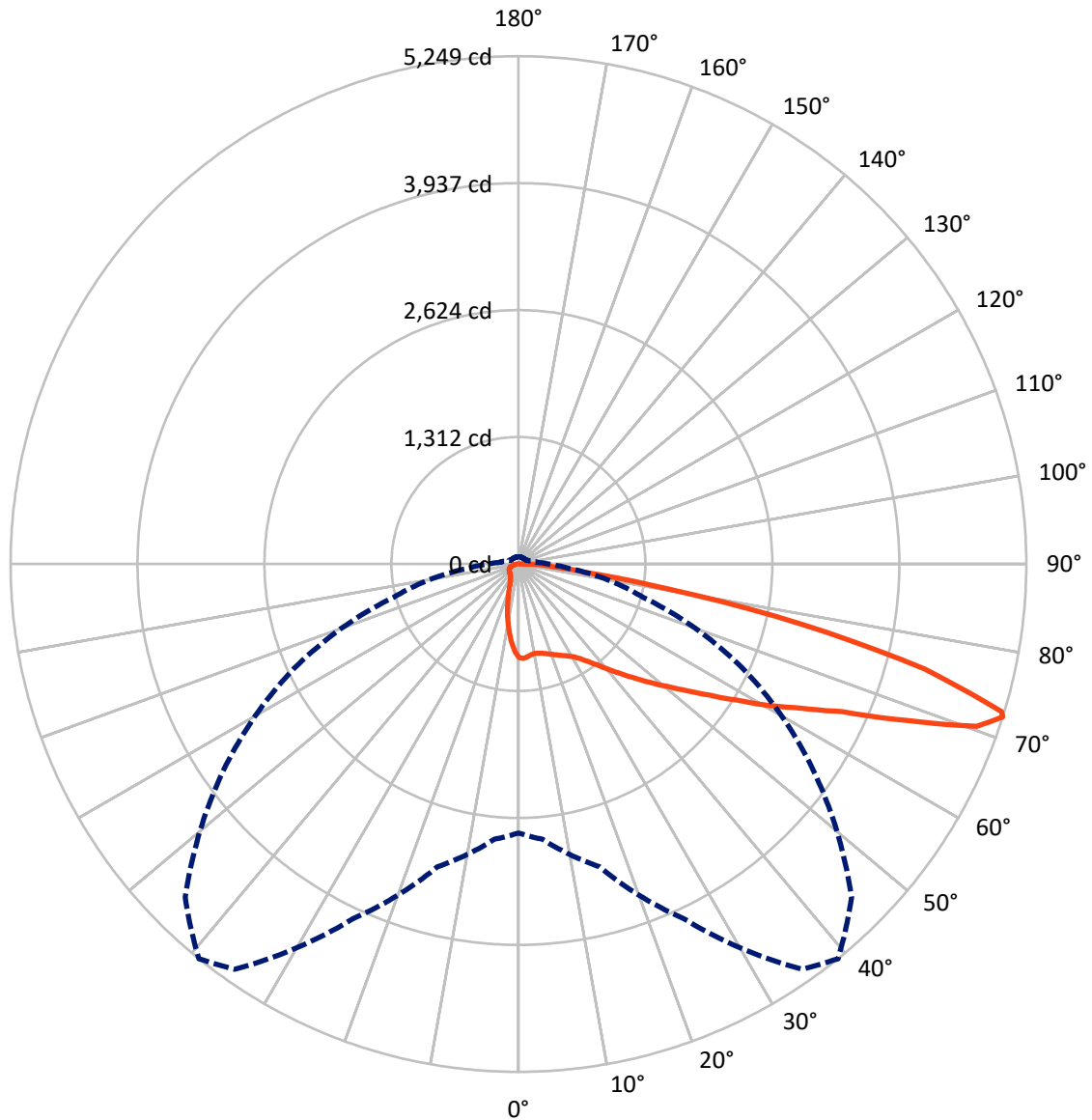


Based on 10 foot mounting height. Maximum calculated value = 9.7 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P198896

CATALOG NUMBER: XNV-AF-01-LED-U-SL4-7050-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P198896

CATALOG NUMBER: XNV-AF-01-LED-U-SL4-7050-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	725.7	0.0	725.7
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	5603.3	0.0	5603.3
	% Fixture	88.5	0.0	88.5
Total	Lumens	6329.0	0.0	6329.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	1.3
10°-20°	208.7	3.3
20°-30°	325.3	5.1
30°-40°	500.8	7.9
40°-50°	816.4	12.9
50°-60°	1268.6	20.0
60°-70°	1698.0	26.8
70°-80°	1221.1	19.3
80°-90°	207.0	3.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6329.0	100.0
0°-180°	6329.0	100.0

Coefficient of Utilization



REPORT NUMBER: P198896

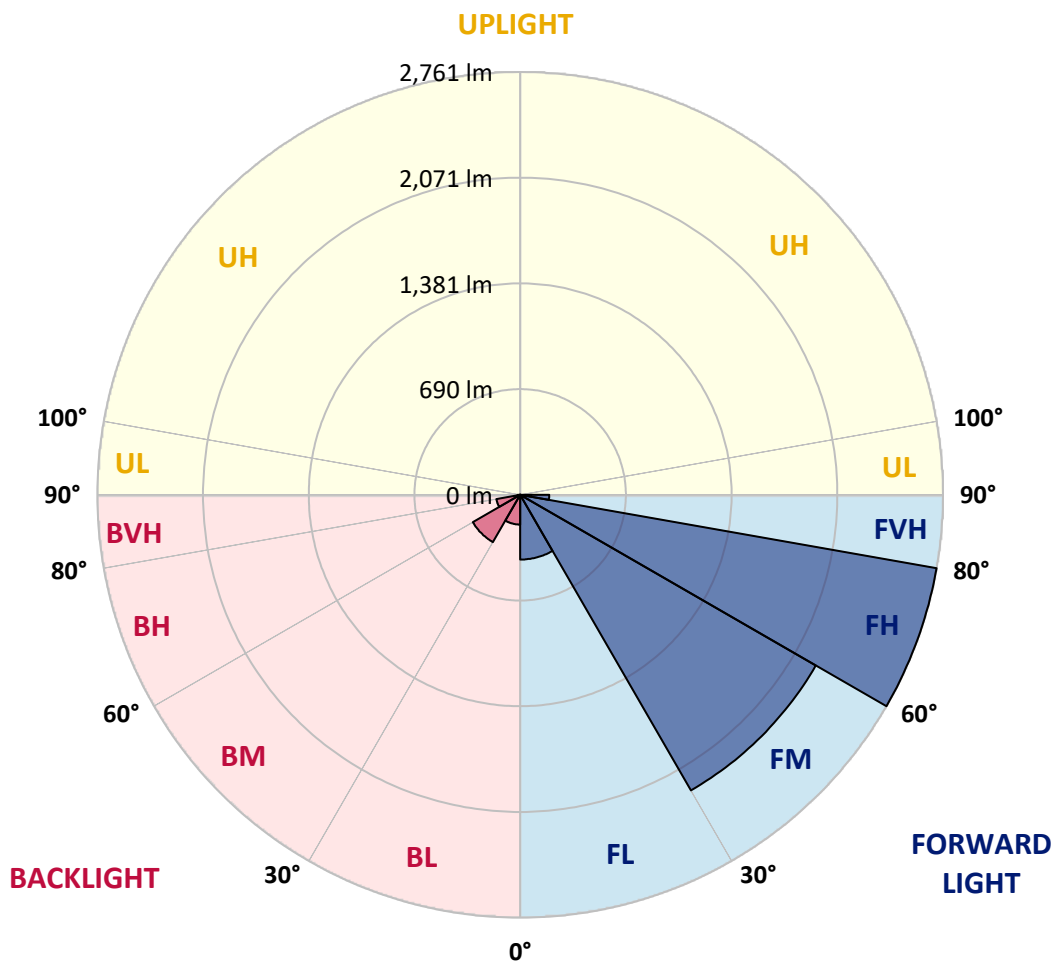
CATALOG NUMBER: XNV-AF-01-LED-U-SL4-7050-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	422.8	6.7			
FM	(30°-60°)	2229.2	35.2			
FH	(60°-80°)	2761.4	43.6			G2/5000
FVH	(80°-90°)	189.9	3.0			G2/225
BL	(0°-30°)	194.3	3.1	B1/500		
BM	(30°-60°)	356.7	5.6	B1/1000		
BH	(60°-80°)	157.7	2.5	B1/500		G1/500
BVH	(80°-90°)	17.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P198896

CATALOG NUMBER: XNV-AF-01-LED-U-SL4-7050-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6
2.5°	987.4	987.8	986.5	982.7	979.3	977.6	974.6	969.5	962.7	958.1	954.2
5°	978.0	979.3	978.4	972.1	966.1	962.7	958.1	950.8	941.9	938.1	929.2
7.5°	970.8	971.7	969.1	961.9	950.4	946.2	937.7	928.3	920.2	914.7	904.1
10°	965.7	966.6	964.4	957.2	944.5	939.4	929.2	919.0	908.3	901.5	889.7
12.5°	958.5	960.2	960.2	956.8	948.3	944.9	934.7	923.6	913.9	906.6	891.8
15°	957.2	959.3	963.2	962.7	960.2	957.6	949.6	938.5	930.0	921.5	903.2
17.5°	967.8	972.5	980.1	982.7	981.0	975.5	966.1	955.9	946.6	938.5	916.0
20°	994.6	997.1	1008.6	1013.7	1005.2	997.1	984.8	971.7	963.2	956.8	927.9
22.5°	1035.0	1038.4	1047.7	1048.1	1030.3	1020.5	1004.8	988.6	980.6	978.0	944.0
25°	1099.5	1098.7	1101.2	1090.6	1058.3	1046.9	1027.7	1009.0	1003.5	1008.6	967.8
27.5°	1176.9	1174.7	1166.7	1139.0	1090.2	1075.3	1052.4	1035.8	1035.8	1047.7	1000.1
30°	1266.1	1264.0	1237.6	1191.3	1128.0	1111.0	1086.8	1069.4	1078.3	1101.2	1043.9
32.5°	1360.4	1352.7	1315.8	1253.8	1182.0	1163.3	1139.9	1122.0	1139.0	1178.1	1106.8
35°	1449.2	1444.9	1399.5	1326.0	1251.6	1235.9	1219.8	1197.7	1224.9	1285.6	1195.6
37.5°	1541.0	1537.6	1481.9	1403.7	1336.6	1326.0	1312.4	1297.1	1340.9	1420.7	1315.8
40°	1643.4	1636.6	1566.5	1488.3	1435.6	1430.5	1423.3	1419.0	1489.6	1608.5	1467.9
42.5°	1759.3	1746.2	1655.7	1581.3	1543.5	1547.8	1543.9	1560.9	1668.8	1825.2	1648.9
45°	1891.9	1865.6	1744.5	1680.3	1662.9	1679.9	1688.0	1731.3	1880.8	2075.4	1851.1
47.5°	2016.0	1982.0	1841.8	1787.8	1797.6	1826.9	1849.8	1926.3	2113.2	2322.7	2057.6
50°	2130.2	2092.0	1945.8	1899.1	1946.7	1988.3	2035.9	2143.8	2360.5	2577.2	2247.1
52.5°	2214.8	2187.2	2049.9	2020.6	2117.9	2173.1	2249.2	2385.6	2610.3	2819.8	2416.2
55°	2280.2	2265.3	2151.5	2160.0	2311.7	2390.7	2482.9	2639.6	2874.6	3037.3	2552.1
57.5°	2355.8	2344.8	2267.5	2328.2	2552.1	2651.5	2760.3	2934.5	3126.1	3228.9	2658.8
60°	2435.7	2435.7	2396.6	2530.9	2852.9	2966.8	3075.1	3210.7	3376.8	3401.4	2702.1
62.5°	2496.0	2511.8	2525.8	2746.7	3138.4	3279.9	3398.9	3528.9	3636.4	3486.4	2600.1
65°	2583.6	2617.1	2696.1	2996.1	3491.9	3677.1	3837.7	3946.9	3846.7	3418.8	2267.5
67.5°	2734.0	2783.7	2951.9	3367.4	4033.2	4310.6	4466.5	4277.9	3805.5	2993.5	1736.8
70°	2869.5	2939.6	3227.2	3838.6	4736.7	5024.8	4953.0	4201.0	3314.3	2194.4	1068.5
72°	2779.4	2855.9	3240.0	4043.8	5112.7	5248.7	4870.1	3723.0	2561.0	1339.2	526.8
72.5°	2720.4	2799.8	3198.8	4038.7	5122.9	5220.2	4755.0	3533.1	2324.8	1171.8	426.1
75°	2272.6	2340.5	2750.5	3579.4	4514.5	4336.1	3710.7	2286.6	1068.5	378.5	219.2
77.5°	1484.0	1535.9	1896.6	2479.9	3162.2	2990.6	2258.5	1070.6	400.6	229.8	164.8
80°	745.6	782.6	1015.0	1303.9	1706.7	1570.3	1042.6	517.9	268.1	166.1	129.6
82.5°	518.8	552.7	698.9	665.8	713.3	690.4	490.3	432.1	200.5	104.9	68.0
85°	435.1	470.3	578.2	474.6	388.3	353.9	351.4	408.3	132.6	51.8	57.4
87.5°	379.4	432.9	477.1	346.7	266.4	234.9	258.7	374.3	42.1	28.5	17.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P198896

CATALOG NUMBER: XNV-AF-01-LED-U-SL4-7050-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6
2.5°	947.9	946.6	940.2	930.4	923.2	918.5	909.6	909.2	910.0	902.4	905.4
5°	921.1	916.0	899.4	876.9	858.6	841.2	822.1	815.7	810.2	798.7	800.0
7.5°	893.1	884.1	855.2	818.3	783.0	750.7	718.9	703.1	691.2	676.4	676.4
10°	876.5	862.5	818.3	764.3	708.2	661.1	613.5	585.0	564.2	545.1	543.8
12.5°	875.6	854.4	792.8	718.4	641.5	575.3	510.3	466.5	435.5	413.0	410.8
15°	882.4	852.7	771.5	675.5	578.7	492.4	412.1	356.5	316.9	291.9	289.3
17.5°	888.4	850.6	748.6	630.5	517.5	412.5	323.3	265.5	228.1	207.8	205.6
20°	893.9	845.9	719.3	582.9	449.9	337.8	252.8	206.1	181.4	169.9	168.7
22.5°	902.0	841.6	688.7	529.4	383.6	274.9	208.6	175.0	161.9	156.3	155.5
25°	915.1	842.1	659.0	474.6	322.9	229.0	180.6	159.7	152.5	148.7	148.7
27.5°	934.3	847.2	629.6	418.9	271.5	197.6	164.0	151.7	147.0	144.0	143.2
30°	962.3	856.5	598.6	366.2	230.7	175.9	154.2	146.6	142.8	140.2	139.8
32.5°	1003.1	873.1	565.9	318.2	199.7	160.6	147.0	142.3	139.4	137.2	136.8
35°	1063.8	902.4	534.0	277.4	177.6	149.6	141.1	137.2	135.5	134.7	134.3
37.5°	1153.1	949.6	503.9	245.6	163.1	142.3	135.1	133.0	132.1	132.1	132.1
40°	1265.2	1011.6	476.7	223.1	155.1	136.8	130.9	129.2	129.2	129.6	129.6
42.5°	1401.6	1089.3	453.3	207.8	150.4	133.0	127.9	127.0	126.6	126.6	127.0
45°	1560.1	1181.1	438.9	195.9	147.0	130.9	125.8	125.3	123.6	122.8	122.8
47.5°	1719.4	1279.2	438.0	189.1	142.8	128.3	123.6	123.6	120.2	118.5	119.0
50°	1868.1	1367.2	447.4	187.4	140.2	124.5	121.5	121.9	117.3	115.1	114.7
52.5°	1987.9	1434.3	458.8	189.5	140.2	121.1	117.7	119.8	114.7	112.2	111.7
55°	2080.5	1481.1	463.1	194.2	141.9	118.1	114.3	117.7	113.9	110.5	110.5
57.5°	2146.8	1495.9	444.8	196.3	144.5	117.7	110.9	117.3	115.1	110.9	110.9
60°	2122.6	1409.7	376.8	188.2	144.0	116.8	108.3	118.1	119.4	114.7	114.7
62.5°	1933.5	1179.4	302.5	169.9	136.8	113.9	105.4	117.3	122.4	120.7	119.8
65°	1574.1	865.0	234.5	148.3	124.5	107.5	99.0	109.6	115.6	117.3	117.7
67.5°	1109.3	547.6	182.3	126.2	109.2	98.1	91.8	96.9	99.0	99.8	101.5
70°	606.7	296.6	144.9	106.2	93.5	88.8	84.1	84.5	83.7	82.8	83.7
72°	304.6	193.7	122.4	92.2	82.8	79.9	77.7	76.5	76.5	75.2	75.6
72.5°	262.1	180.1	118.1	88.8	80.3	77.7	76.0	74.8	74.4	73.5	73.9
75°	174.6	142.8	98.6	74.4	68.4	66.7	67.6	66.3	66.7	65.9	66.3
77.5°	141.1	122.8	83.7	62.9	58.6	56.1	57.8	58.2	59.1	58.2	57.8
80°	118.1	104.5	70.1	51.8	48.9	46.7	47.6	50.6	51.0	48.4	48.0
82.5°	76.5	84.1	55.2	40.4	37.4	36.5	38.7	41.6	42.5	39.1	38.2
85°	64.2	67.6	39.9	27.6	24.6	23.8	28.0	31.0	33.1	29.7	28.9
87.5°	17.8	33.1	19.5	13.2	11.0	11.0	13.6	16.1	19.1	19.5	19.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)