

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: P198576

Luminaire Tested: **XNV-AF-01-LED-U-SL4-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198576
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-SL4-7030-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 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: 5602 lumens
Efficiency: N/A
Efficacy: 84.9 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

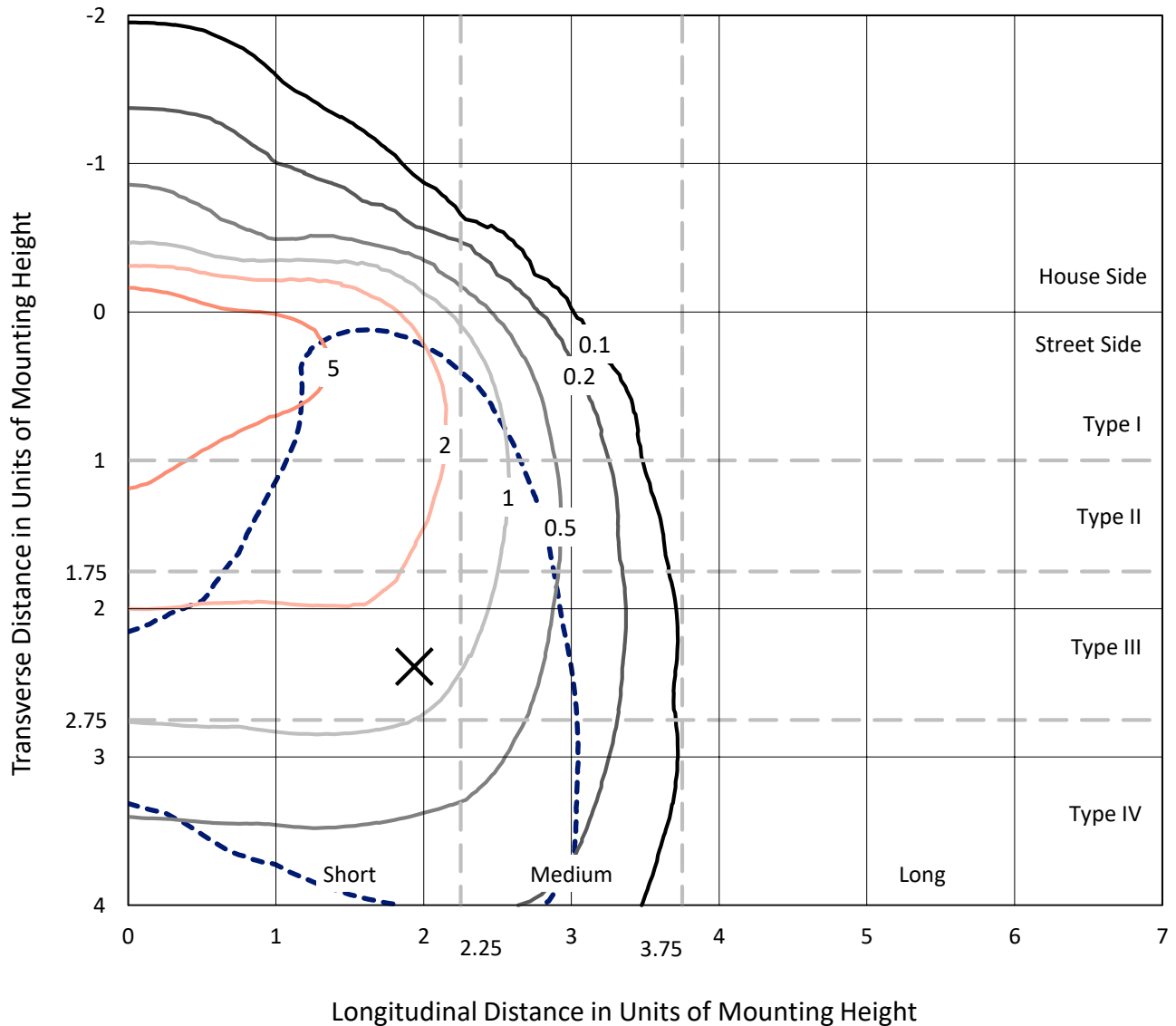
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

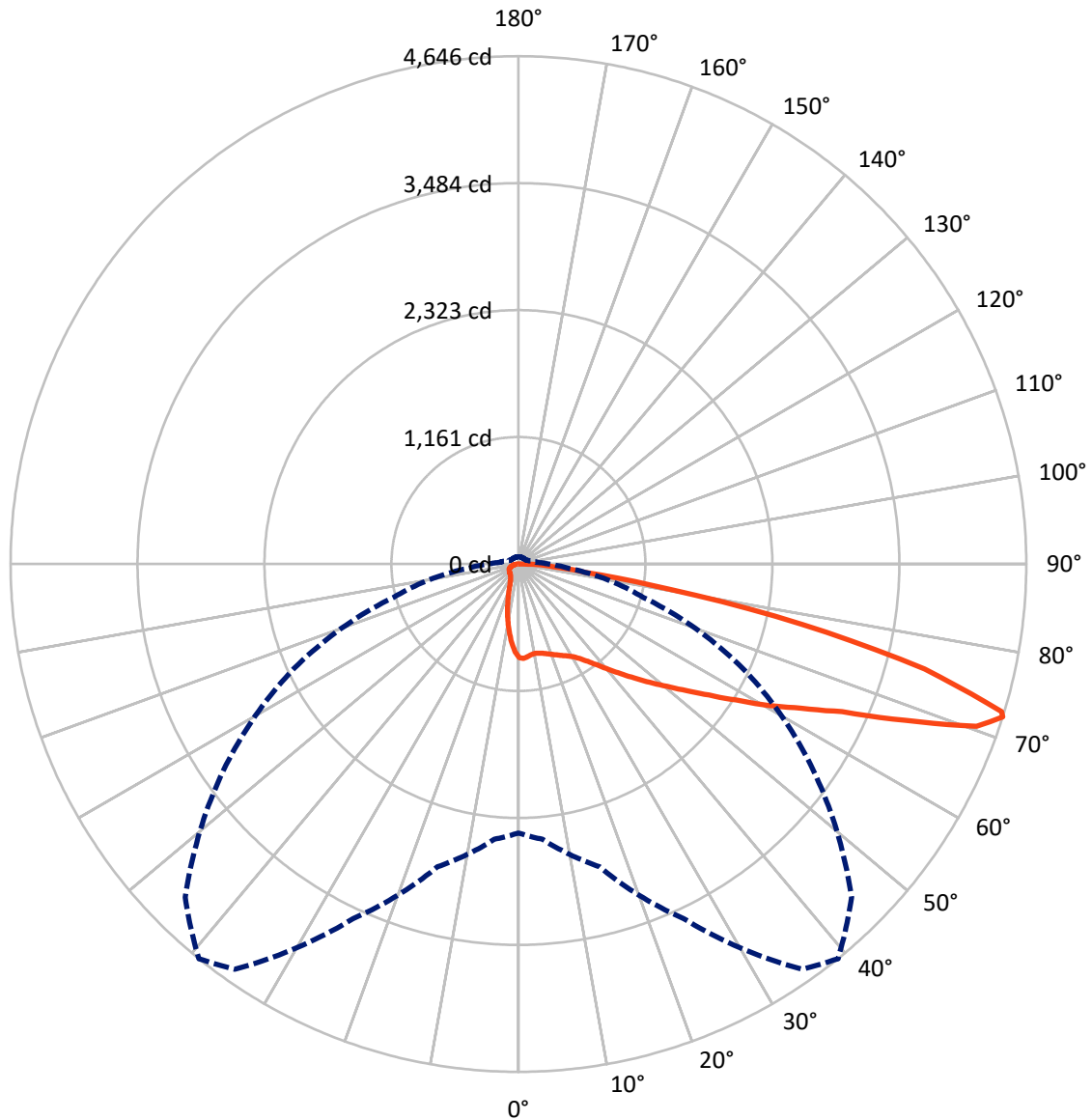


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	642.3	0.0	642.3
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	4959.7	0.0	4959.7
	% Fixture	88.5	0.0	88.5
Total	Lumens	5602.0	0.0	5602.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	1.3
10°-20°	184.7	3.3
20°-30°	287.9	5.1
30°-40°	443.3	7.9
40°-50°	722.6	12.9
50°-60°	1122.9	20.0
60°-70°	1503.0	26.8
70°-80°	1080.8	19.3
80°-90°	183.2	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°	5602.0	100.0
0°-180°	5602.0	100.0

Coefficient of Utilization



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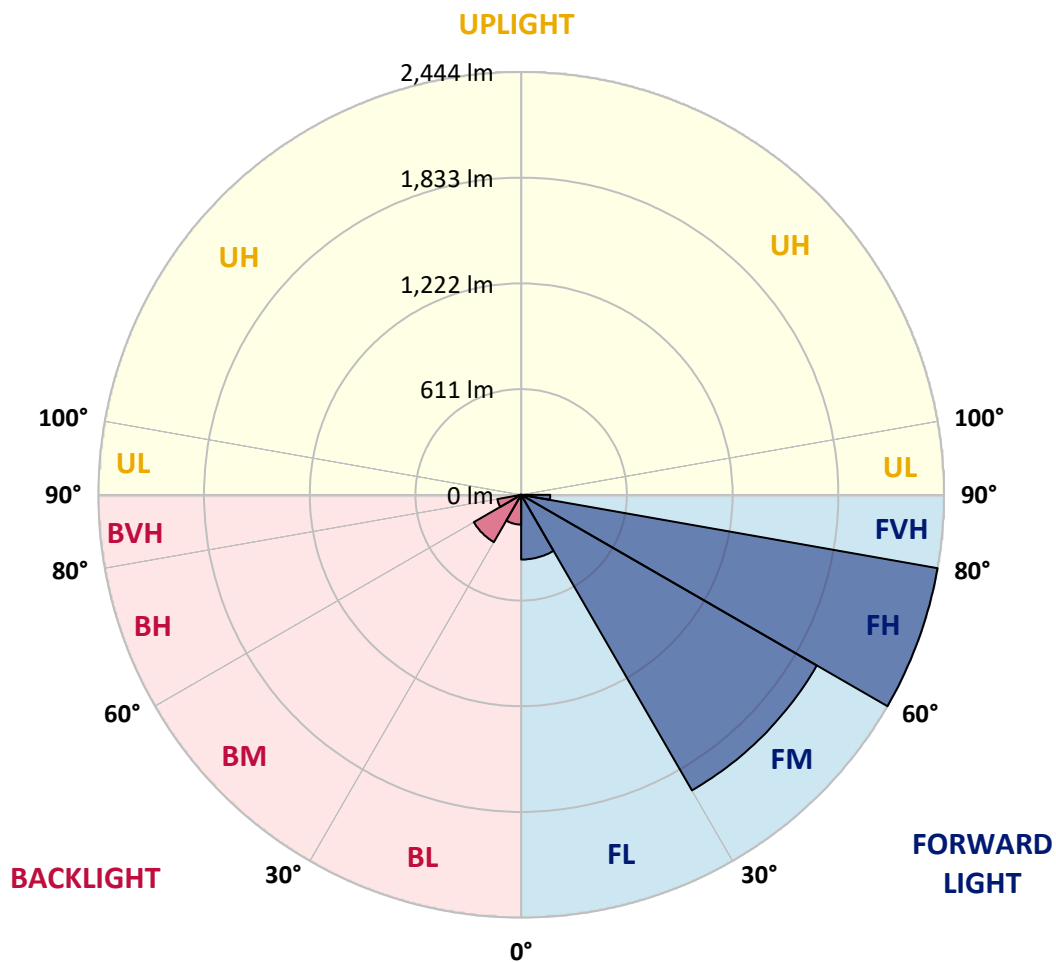
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	374.2	6.7			
FM	(30°-60°)	1973.1	35.2			
FH	(60°-80°)	2444.2	43.6			G2/5000
FVH	(80°-90°)	168.1	3.0			G2/225
BL	(0°-30°)	172.0	3.1	B1/500		
BM	(30°-60°)	315.7	5.6	B1/1000		
BH	(60°-80°)	139.6	2.5	B1/500		G1/500
BVH	(80°-90°)	15.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5
2.5°	874.0	874.3	873.2	869.8	866.8	865.3	862.7	858.2	852.1	848.0	844.6
5°	865.7	866.8	866.1	860.4	855.1	852.1	848.0	841.6	833.7	830.3	822.4
7.5°	859.3	860.0	857.8	851.4	841.2	837.5	830.0	821.7	814.5	809.6	800.2
10°	854.8	855.5	853.6	847.3	836.0	831.5	822.4	813.4	804.0	798.0	787.5
12.5°	848.4	849.9	849.9	846.9	839.4	836.3	827.3	817.5	808.9	802.5	789.3
15°	847.3	849.1	852.5	852.1	849.9	847.6	840.5	830.7	823.2	815.7	799.5
17.5°	856.7	860.8	867.6	869.8	868.3	863.4	855.1	846.1	837.9	830.7	810.8
20°	880.3	882.6	892.8	897.3	889.7	882.6	871.7	860.0	852.5	846.9	821.3
22.5°	916.1	919.1	927.4	927.7	911.9	903.3	889.4	875.1	867.9	865.7	835.6
25°	973.2	972.5	974.7	965.3	936.8	926.6	909.7	893.1	888.2	892.8	856.7
27.5°	1041.7	1039.8	1032.6	1008.2	965.0	951.8	931.5	916.8	916.8	927.4	885.2
30°	1120.6	1118.8	1095.4	1054.5	998.4	983.4	961.9	946.5	954.4	974.7	924.0
32.5°	1204.1	1197.4	1164.6	1109.7	1046.2	1029.6	1009.0	993.2	1008.2	1042.8	979.6
35°	1282.7	1279.0	1238.7	1173.7	1107.9	1093.9	1079.7	1060.1	1084.2	1137.9	1058.2
37.5°	1364.0	1360.9	1311.7	1242.5	1183.1	1173.7	1161.6	1148.1	1186.8	1257.5	1164.6
40°	1454.6	1448.6	1386.5	1317.3	1270.7	1266.2	1259.8	1256.0	1318.5	1423.7	1299.3
42.5°	1557.2	1545.6	1465.5	1399.7	1366.2	1370.0	1366.6	1381.6	1477.1	1615.5	1459.5
45°	1674.6	1651.3	1544.1	1487.3	1471.9	1486.9	1494.1	1532.4	1664.8	1837.0	1638.5
47.5°	1784.4	1754.3	1630.2	1582.4	1591.1	1617.0	1637.3	1705.0	1870.5	2055.9	1821.2
50°	1885.5	1851.7	1722.3	1681.0	1723.1	1759.9	1802.1	1897.6	2089.4	2281.2	1989.0
52.5°	1960.4	1935.9	1814.5	1788.5	1874.6	1923.5	1990.8	2111.6	2310.5	2495.9	2138.6
55°	2018.3	2005.1	1904.3	1911.9	2046.1	2116.1	2197.7	2336.4	2544.4	2688.4	2259.0
57.5°	2085.2	2075.4	2007.0	2060.8	2259.0	2347.0	2443.2	2597.4	2767.0	2858.0	2353.4
60°	2155.9	2155.9	2121.3	2240.2	2525.2	2626.0	2721.9	2841.9	2988.9	3010.7	2391.7
62.5°	2209.3	2223.2	2235.6	2431.2	2777.9	2903.1	3008.4	3123.5	3218.7	3085.9	2301.5
65°	2286.8	2316.5	2386.4	2651.9	3090.8	3254.8	3396.9	3493.6	3404.8	3026.1	2007.0
67.5°	2419.9	2463.9	2612.8	2980.6	3569.9	3815.5	3953.5	3786.5	3368.3	2649.7	1537.3
70°	2539.9	2601.9	2856.5	3397.7	4192.6	4447.6	4384.1	3718.4	2933.6	1942.3	945.8
72°	2460.2	2527.8	2867.8	3579.3	4525.5	4645.8	4310.7	3295.4	2266.9	1185.3	466.3
72.5°	2407.9	2478.2	2831.3	3574.8	4534.5	4620.6	4208.8	3127.3	2057.8	1037.2	377.2
75°	2011.5	2071.7	2434.6	3168.3	3996.0	3838.0	3284.5	2023.9	945.8	335.1	194.0
77.5°	1313.6	1359.4	1678.7	2195.0	2799.0	2647.1	1999.1	947.7	354.6	203.4	145.9
80°	660.0	692.7	898.4	1154.1	1510.6	1389.9	922.8	458.4	237.3	147.0	114.7
82.5°	459.2	489.2	618.6	589.3	631.4	611.1	434.0	382.4	177.5	92.9	60.2
85°	385.1	416.3	511.8	420.1	343.7	313.3	311.0	361.4	117.3	45.9	50.8
87.5°	335.8	383.2	422.3	306.9	235.8	208.0	229.0	331.3	37.2	25.2	15.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5
2.5°	839.0	837.9	832.2	823.6	817.2	813.0	805.1	804.8	805.5	798.7	801.4
5°	815.3	810.8	796.1	776.2	760.0	744.6	727.7	722.0	717.1	707.0	708.1
7.5°	790.5	782.6	757.0	724.3	693.1	664.5	636.3	622.4	611.8	598.7	598.7
10°	775.8	763.4	724.3	676.5	626.9	585.1	543.0	517.8	499.4	482.5	481.4
12.5°	775.1	756.2	701.7	635.9	567.8	509.2	451.6	412.9	385.5	365.5	363.6
15°	781.1	754.7	682.9	597.9	512.2	435.8	364.8	315.5	280.5	258.4	256.1
17.5°	786.3	752.9	662.6	558.1	458.0	365.1	286.2	235.0	201.9	183.9	182.0
20°	791.2	748.7	636.7	515.9	398.2	299.0	223.8	182.4	160.6	150.4	149.3
22.5°	798.4	745.0	609.6	468.6	339.6	243.3	184.6	154.9	143.3	138.4	137.6
25°	810.0	745.3	583.3	420.1	285.8	202.7	159.8	141.4	135.0	131.6	131.6
27.5°	826.9	749.9	557.3	370.8	240.3	174.9	145.2	134.3	130.1	127.5	126.7
30°	851.8	758.1	529.9	324.2	204.2	155.7	136.5	129.7	126.4	124.1	123.7
32.5°	887.9	772.8	500.9	281.7	176.7	142.1	130.1	126.0	123.3	121.5	121.1
35°	941.6	798.7	472.7	245.6	157.2	132.4	124.9	121.5	120.0	119.2	118.8
37.5°	1020.6	840.5	446.0	217.4	144.4	126.0	119.6	117.7	117.0	117.0	117.0
40°	1119.9	895.4	421.9	197.4	137.3	121.1	115.8	114.3	114.3	114.7	114.7
42.5°	1240.6	964.2	401.3	183.9	133.1	117.7	113.2	112.4	112.1	112.1	112.4
45°	1380.9	1045.4	388.5	173.4	130.1	115.8	111.3	110.9	109.4	108.7	108.7
47.5°	1521.9	1132.3	387.7	167.3	126.4	113.6	109.4	109.4	106.4	104.9	105.3
50°	1653.5	1210.1	396.0	165.8	124.1	110.2	107.6	107.9	103.8	101.9	101.5
52.5°	1759.6	1269.6	406.1	167.7	124.1	107.2	104.2	106.0	101.5	99.3	98.9
55°	1841.5	1310.9	409.9	171.9	125.6	104.5	101.2	104.2	100.8	97.8	97.8
57.5°	1900.2	1324.1	393.7	173.7	127.9	104.2	98.2	103.8	101.9	98.2	98.2
60°	1878.8	1247.8	333.6	166.6	127.5	103.4	95.9	104.5	105.7	101.5	101.5
62.5°	1711.4	1043.9	267.8	150.4	121.1	100.8	93.3	103.8	108.3	106.8	106.0
65°	1393.3	765.6	207.6	131.2	110.2	95.1	87.6	97.0	102.3	103.8	104.2
67.5°	981.9	484.7	161.3	111.7	96.6	86.9	81.2	85.7	87.6	88.4	89.9
70°	537.0	262.5	128.2	94.0	82.7	78.6	74.5	74.8	74.1	73.3	74.1
72°	269.6	171.5	108.3	81.6	73.3	70.7	68.8	67.7	67.7	66.6	66.9
72.5°	232.0	159.4	104.5	78.6	71.1	68.8	67.3	66.2	65.8	65.1	65.4
75°	154.6	126.4	87.2	65.8	60.5	59.0	59.8	58.7	59.0	58.3	58.7
77.5°	124.9	108.7	74.1	55.7	51.9	49.6	51.1	51.5	52.3	51.5	51.1
80°	104.5	92.5	62.0	45.9	43.2	41.4	42.1	44.8	45.1	42.9	42.5
82.5°	67.7	74.5	48.9	35.7	33.1	32.3	34.2	36.9	37.6	34.6	33.8
85°	56.8	59.8	35.3	24.4	21.8	21.1	24.8	27.5	29.3	26.3	25.6
87.5°	15.8	29.3	17.3	11.7	9.8	9.8	12.0	14.3	16.9	17.3	17.3
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)