

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: P271225

Luminaire Tested: **XNV-AF-01-LED-U-SL2-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24257)
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-SL2-7027
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5150.8 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G2

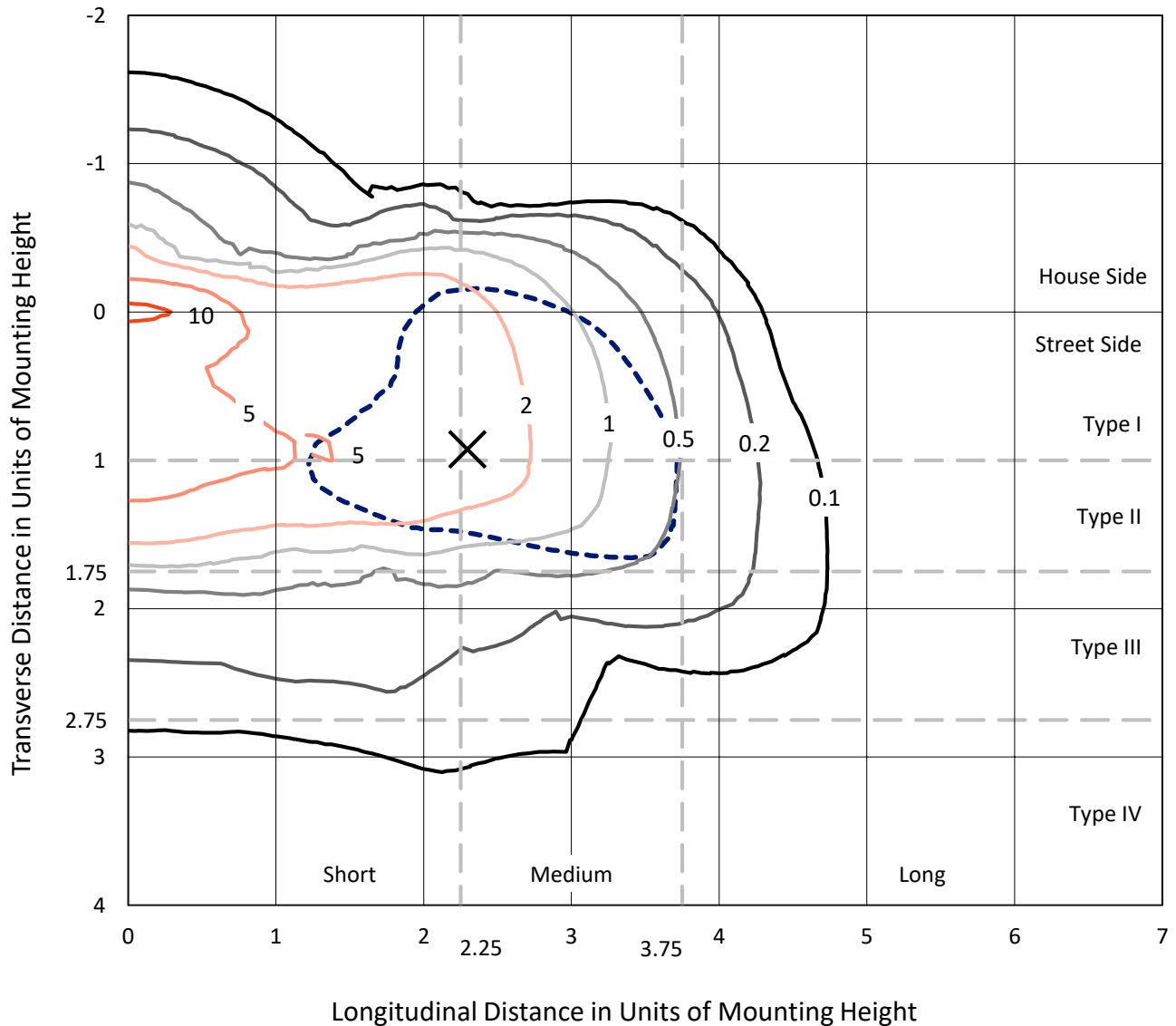
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P271225
 CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7027

Iso-Footcandle Lines of Horizontal Illumination

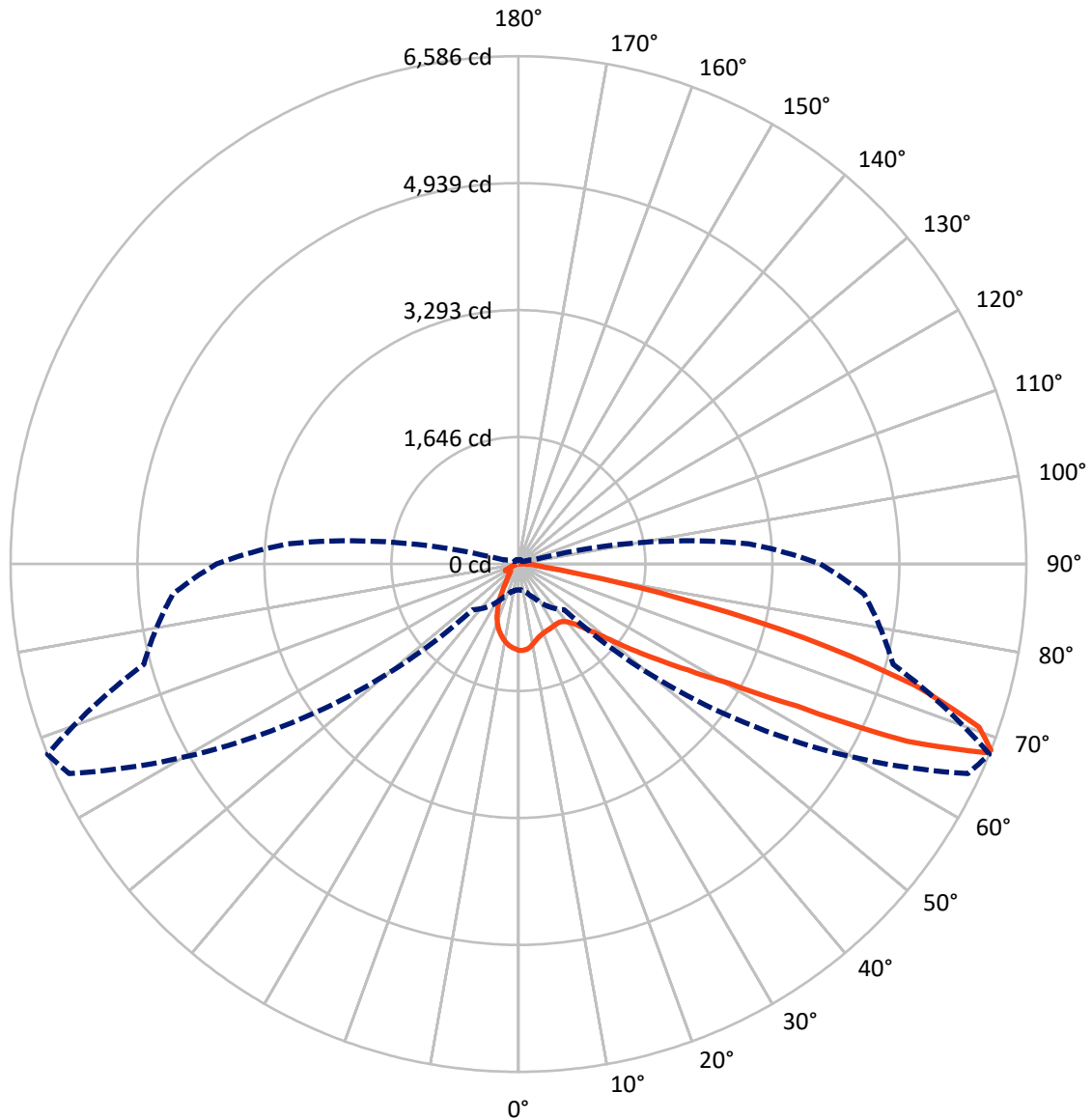
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	842.7	0.0	842.7
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	4308.1	0.0	4308.1
	% Fixture	83.6	0.0	83.6
Total	Lumens	5150.8	0.0	5150.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	1.9
10°-20°	222.7	4.3
20°-30°	301.2	5.8
30°-40°	424.7	8.2
40°-50°	698.4	13.6
50°-60°	1082.6	21.0
60°-70°	1403.7	27.3
70°-80°	805.5	15.6
80°-90°	115.9	2.3
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°	5150.8	100.0
0°-180°	5150.8	100.0

Coefficient of Utilization



REPORT NUMBER: P271225

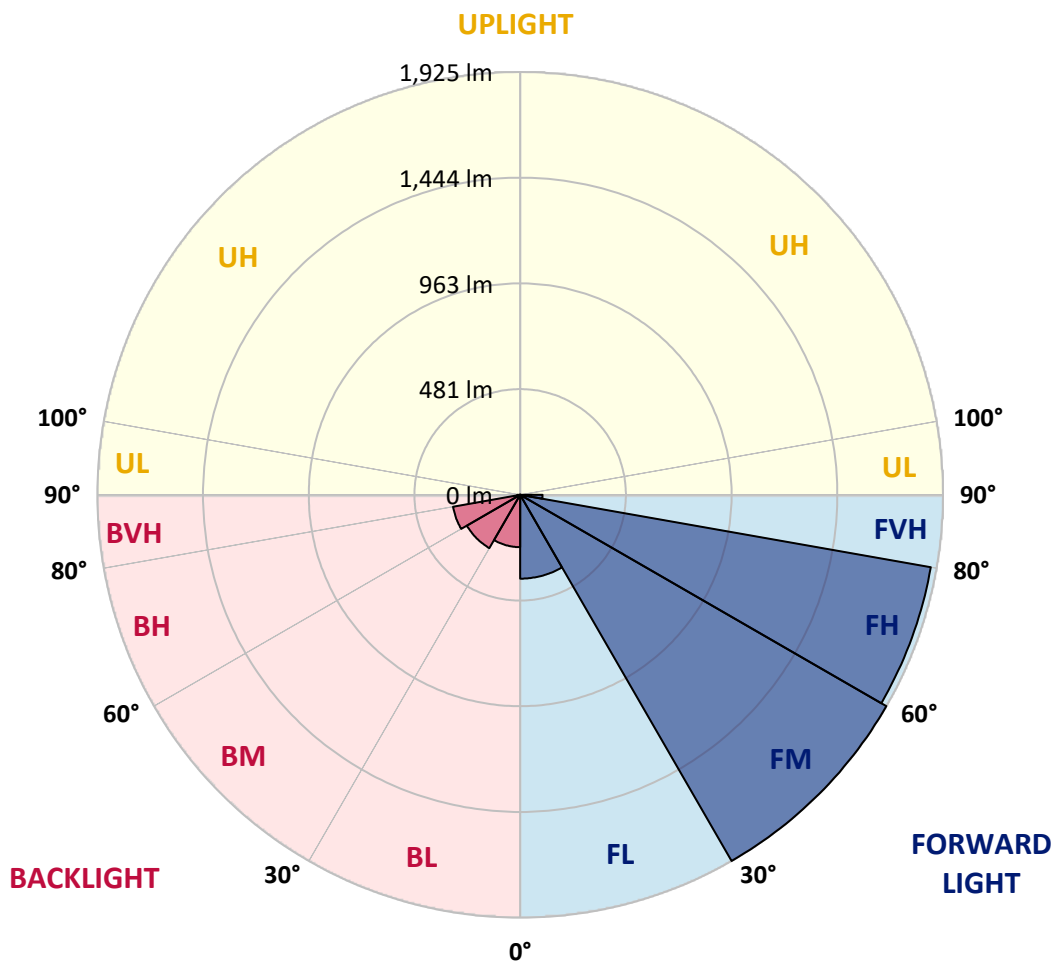
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	381.8	7.4			
FM (30°-60°)	1925.5	37.4			
FH (60°-80°)	1898.8	36.9			G2/5000
FVH (80°-90°)	102.1	2.0			G2/225
BL (0°-30°)	238.2	4.6	B1/500		
BM (30°-60°)	280.3	5.4	B1/1000		
BH (60°-80°)	310.4	6.0	B1/500		G1/500
BVH (80°-90°)	13.8	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 II Medium





REPORT NUMBER: P271225

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1120.7	1120.7	1120.7	1120.7	1120.7	1120.7	1120.7	1120.7	1120.7	1120.7	1120.7
2.5°	1090.8	1099.5	1099.5	1106.0	1111.7	1116.5	1120.5	1120.5	1120.5	1117.8	1115.3
5°	976.1	987.9	989.6	1005.7	1026.9	1052.9	1081.7	1107.3	1112.3	1121.8	1125.4
7.5°	896.4	900.0	906.4	917.6	939.1	971.1	1016.4	1073.7	1087.5	1117.0	1132.6
10°	839.8	842.9	848.2	859.4	878.8	907.7	952.6	1026.9	1049.8	1102.3	1132.9
12.5°	798.5	800.7	805.8	815.9	835.9	861.7	907.5	984.8	1013.1	1087.5	1137.7
15°	766.2	770.1	774.2	784.0	804.2	829.0	875.5	954.2	984.8	1075.7	1146.3
17.5°	753.4	755.4	756.1	761.0	779.3	804.5	851.0	932.7	964.3	1066.3	1153.1
20°	761.5	761.8	755.0	751.6	762.1	785.3	830.5	916.5	948.8	1057.8	1155.8
22.5°	796.7	796.7	779.3	764.5	757.5	771.9	816.6	905.4	940.4	1051.5	1155.8
25°	864.0	861.0	833.7	804.5	773.3	767.2	807.8	898.3	934.1	1048.1	1151.4
27.5°	952.6	949.9	915.3	871.7	815.2	777.3	804.8	892.6	927.6	1043.0	1141.9
30°	1060.2	1057.8	1018.5	961.6	878.2	809.3	811.9	888.7	922.6	1034.7	1126.1
32.5°	1167.5	1166.2	1134.9	1076.7	965.0	863.5	830.5	888.0	920.0	1024.5	1107.0
35°	1275.6	1275.6	1256.4	1207.2	1081.7	944.7	869.1	900.5	925.0	1019.1	1090.5
37.5°	1435.0	1428.7	1393.0	1342.2	1228.8	1050.5	931.7	926.6	944.5	1028.2	1085.2
40°	1681.9	1663.5	1574.3	1488.9	1389.3	1185.8	1023.2	977.4	988.1	1059.2	1097.9
42.5°	1940.3	1911.1	1793.0	1656.5	1555.1	1352.6	1143.4	1059.9	1059.6	1119.1	1138.6
45°	2162.1	2146.9	2019.1	1845.8	1744.6	1540.4	1295.0	1182.3	1170.2	1212.0	1217.1
47.5°	2290.9	2280.8	2203.8	2046.3	1969.4	1762.0	1487.6	1352.3	1329.4	1354.3	1346.5
50°	2255.4	2265.0	2242.9	2162.5	2210.9	2073.6	1732.8	1585.1	1541.8	1566.6	1547.8
52.5°	2067.5	2093.8	2113.7	2129.2	2349.8	2490.6	2040.9	1875.8	1839.8	1835.4	1817.2
55°	1729.4	1771.2	1833.7	1947.4	2312.5	2825.3	2579.4	2227.3	2174.9	2147.3	2154.3
57.5°	1177.0	1240.2	1375.1	1591.4	2118.5	2968.0	3375.4	2681.6	2592.8	2494.6	2517.4
60°	648.3	701.1	861.7	1079.8	1675.2	2946.8	4081.0	3419.8	3140.2	2879.8	2926.9
62.5°	419.6	430.9	550.4	737.6	1028.2	2601.5	4473.0	4653.7	4061.1	3387.9	3454.2
65°	337.1	345.2	403.8	594.9	716.4	1673.6	4490.4	5933.6	5542.9	4078.3	4080.3
67.5°	329.4	333.1	367.0	500.4	671.9	911.2	3881.4	6438.3	6528.8	4893.2	4499.3
68°	334.1	338.5	372.7	484.8	671.7	839.8	3587.4	6430.5	6585.7	5029.5	4499.3
70°	294.7	300.2	380.3	501.7	642.9	722.1	2456.5	6089.0	6338.7	5342.8	4269.0
72.5°	154.1	149.7	188.0	396.1	723.8	752.3	1297.7	5087.0	5378.4	4948.0	3688.4
75°	120.2	109.4	105.3	156.5	636.5	780.3	753.7	3615.7	3835.8	3566.9	2465.3
77.5°	113.0	99.9	92.2	92.5	280.4	811.9	609.7	2127.8	2127.8	1701.5	786.6
80°	90.9	78.7	73.8	84.1	135.3	748.3	636.3	969.7	827.0	439.8	216.8
82.5°	59.8	53.4	53.9	68.4	102.6	499.6	736.9	478.7	359.7	194.8	127.5
85°	38.0	32.7	36.3	47.8	76.7	222.7	729.5	332.7	238.2	109.4	63.6
87.5°	19.1	14.8	18.1	25.0	46.8	63.9	600.5	297.1	176.6	45.5	34.7
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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CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1120.7	1120.7	1120.7	1120.7	1120.7	1120.7	1120.7	1120.7	1120.7	1120.7	1120.7
2.5°	1115.3	1108.0	1104.2	1098.2	1090.8	1083.4	1078.3	1076.0	1074.7	1075.4	1075.0
5°	1123.5	1113.7	1097.9	1075.4	1052.2	1027.7	1008.7	994.2	985.3	982.4	981.8
7.5°	1129.4	1115.3	1085.8	1044.6	1005.1	961.9	925.3	896.0	876.1	867.0	866.8
10°	1128.5	1110.3	1063.6	1003.0	944.7	881.5	824.0	774.9	739.2	722.1	721.3
12.5°	1129.4	1104.6	1036.4	954.2	870.7	780.3	694.7	618.5	565.3	540.1	539.1
15°	1133.5	1098.5	1008.3	899.7	784.3	656.4	534.3	438.5	390.0	373.4	373.4
17.5°	1133.2	1088.4	976.1	836.4	681.6	510.4	364.7	305.6	300.8	315.9	318.3
20°	1126.5	1072.3	934.3	761.5	561.3	353.4	247.4	238.9	276.6	318.3	323.0
22.5°	1116.1	1051.5	886.3	674.3	420.9	230.1	190.8	203.6	254.7	306.5	313.9
25°	1101.6	1026.3	831.1	572.9	279.9	165.6	159.2	175.0	210.9	245.6	250.9
27.5°	1080.4	994.2	770.8	463.3	178.7	136.3	138.6	149.7	165.2	180.0	183.1
30°	1053.8	957.0	705.2	341.9	135.6	121.8	125.9	132.6	139.2	148.7	150.7
32.5°	1026.9	918.8	636.9	234.8	118.4	114.1	118.0	121.8	127.5	133.8	135.3
35°	1002.7	883.6	566.7	163.9	111.0	109.1	111.0	113.4	119.1	125.6	126.2
37.5°	985.3	854.6	493.3	129.5	106.7	104.7	105.6	106.7	113.4	122.8	123.8
40°	982.8	835.5	418.9	116.4	103.2	100.6	99.9	100.6	109.4	120.2	121.1
42.5°	1005.7	836.4	346.2	111.0	100.6	97.6	95.0	96.2	103.9	112.4	113.0
45°	1059.9	859.9	283.3	108.7	98.3	95.8	91.8	92.5	96.2	100.6	101.2
47.5°	1155.4	911.5	235.1	107.3	96.2	94.2	89.1	87.1	87.5	89.8	89.8
50°	1308.2	997.6	205.9	106.0	94.5	90.9	85.1	81.0	80.0	81.4	81.7
52.5°	1536.0	1145.2	191.8	103.2	91.4	86.4	80.0	76.0	74.4	75.6	75.6
55°	1843.9	1381.2	185.1	99.6	87.9	81.0	75.4	72.0	70.6	71.7	71.7
57.5°	2194.7	1687.7	196.5	94.5	83.2	75.4	71.3	69.0	67.9	69.0	69.3
60°	2611.6	2088.7	275.2	88.2	78.1	70.2	67.9	66.7	65.9	67.0	67.0
62.5°	3165.7	2622.4	425.9	83.2	72.7	65.5	64.9	64.3	63.6	64.6	64.6
65°	3764.1	3108.0	438.5	80.0	67.9	61.5	62.0	62.0	61.3	62.3	62.3
67.5°	3954.5	3065.8	245.0	76.4	62.3	57.5	58.8	58.8	58.5	59.6	59.2
68°	3914.2	2999.4	213.3	75.4	61.3	56.6	57.9	58.2	57.9	58.8	58.5
70°	3613.3	2633.2	140.3	69.7	56.9	53.2	55.2	55.5	55.2	56.6	56.2
72.5°	2982.8	1975.1	103.7	60.8	51.6	48.8	50.8	51.2	51.6	52.8	52.6
75°	1894.3	1090.8	81.7	51.8	46.2	43.7	45.8	46.8	47.4	49.4	48.5
77.5°	518.9	331.0	66.3	44.0	39.7	38.6	40.1	41.4	42.1	44.5	42.7
80°	181.6	146.3	55.2	37.4	33.0	32.7	34.0	35.4	36.0	38.0	36.0
82.5°	110.3	95.6	44.0	29.3	26.0	25.6	27.3	28.6	29.3	29.3	27.9
85°	57.5	50.5	32.2	20.5	17.8	16.8	19.9	21.5	21.9	21.5	20.5
87.5°	32.2	28.6	17.2	9.7	8.1	8.4	10.4	12.8	13.8	13.5	12.8
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)