

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: P198542

Luminaire Tested: **XNV-AF-01-LED-U-SL2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198542
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-SL2-7030
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 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: 5248 lumens
Efficiency: N/A
Efficacy: 90.5 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

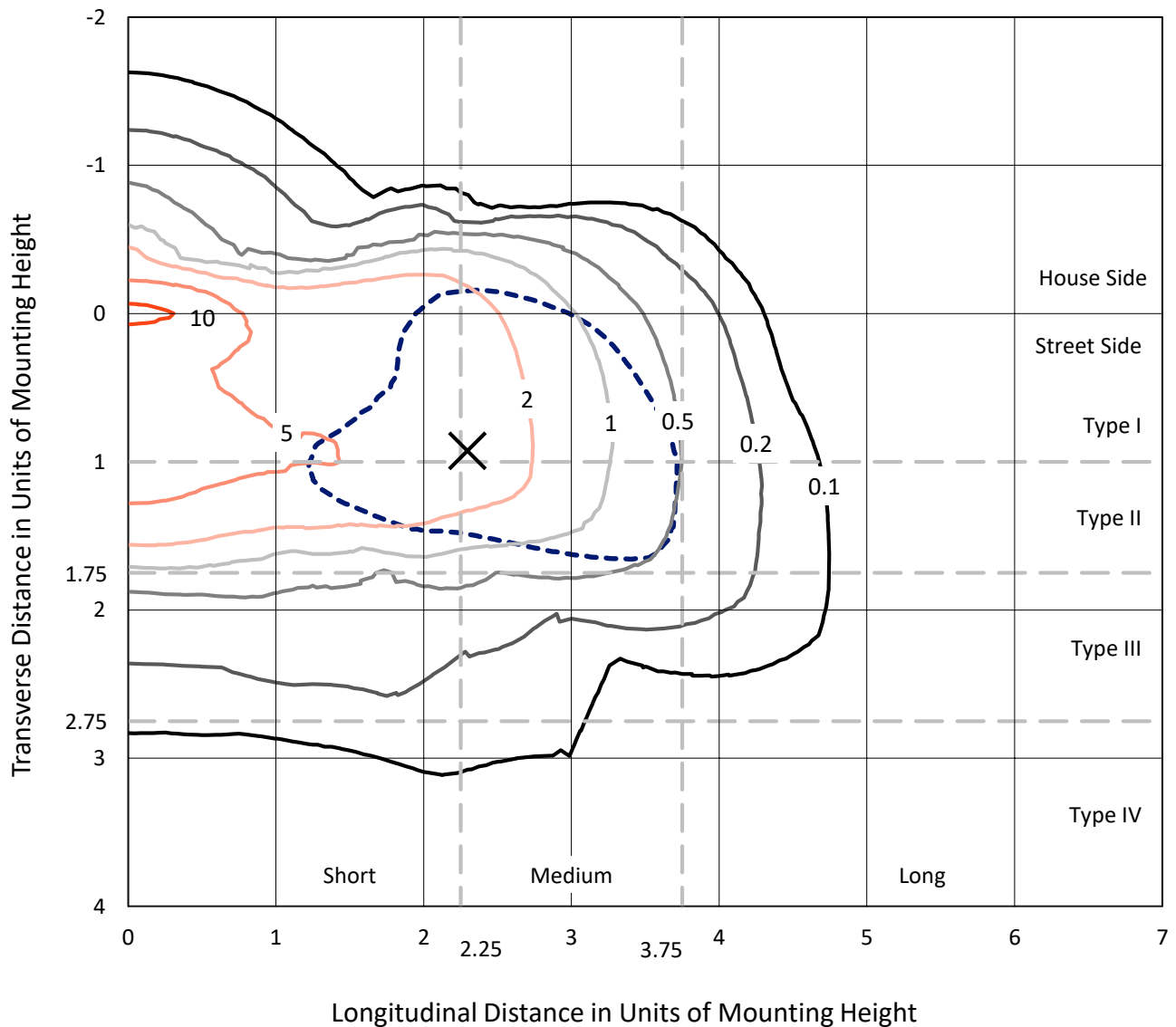
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

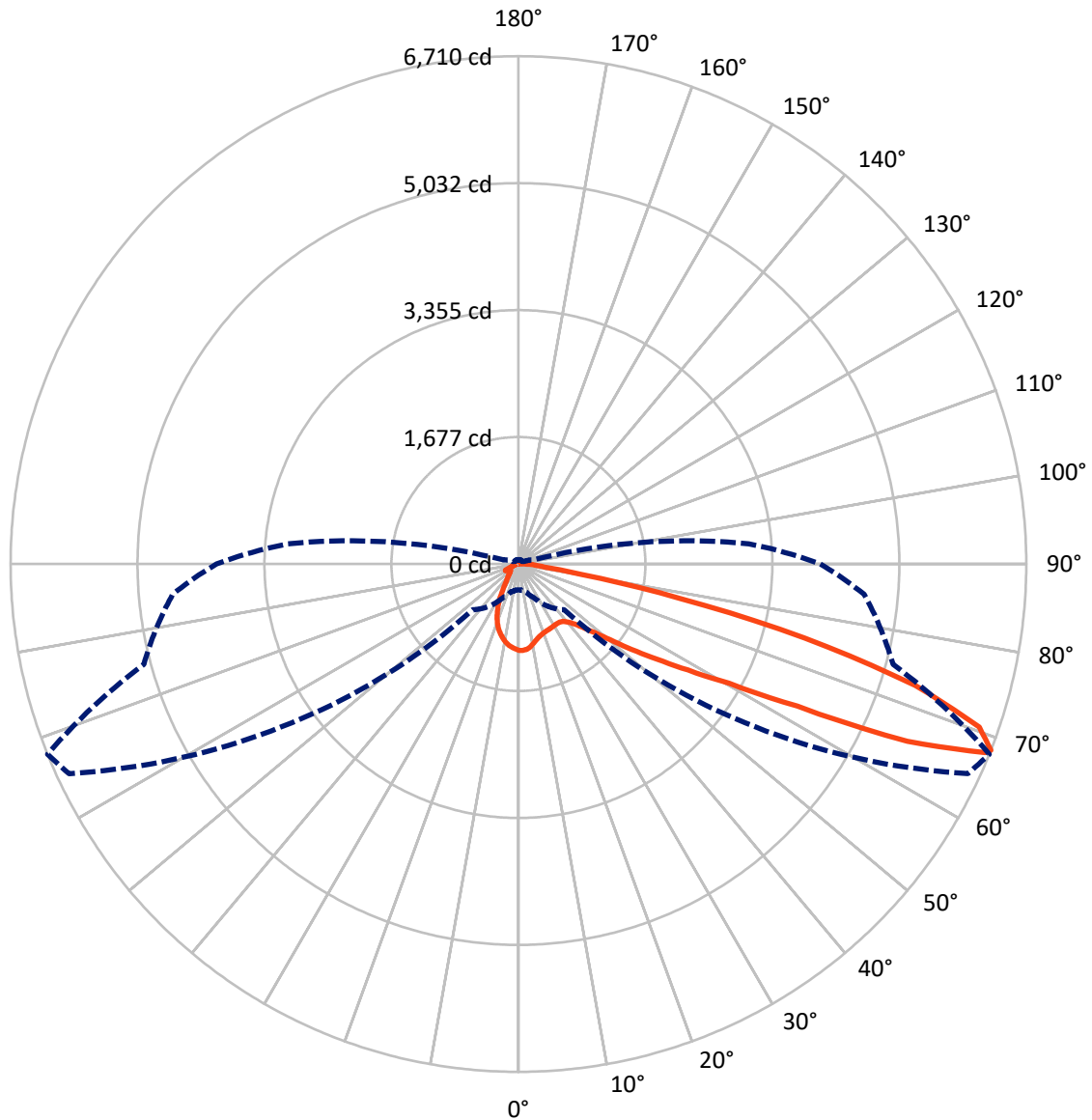


Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Medium - Semi-Cutoff

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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	858.6	0.0	858.6
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	4389.4	0.0	4389.4
	% Fixture	83.6	0.0	83.6
Total	Lumens	5248.0	0.0	5248.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.8	1.9
10°-20°	226.9	4.3
20°-30°	306.9	5.8
30°-40°	432.7	8.2
40°-50°	711.6	13.6
50°-60°	1103.0	21.0
60°-70°	1430.2	27.3
70°-80°	820.7	15.6
80°-90°	118.1	2.2
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°	5248.0	100.0
0°-180°	5248.0	100.0

Coefficient of Utilization



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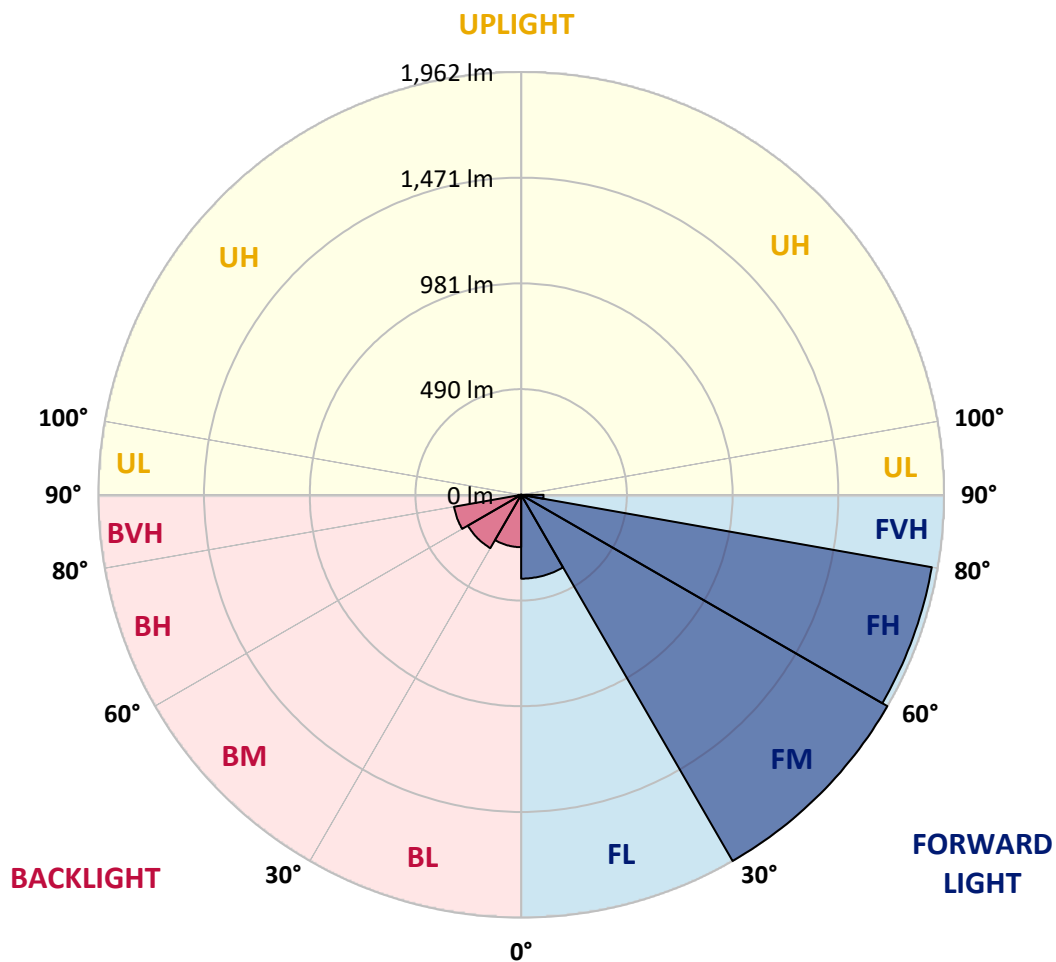
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	389.0	7.4			
FM (30°-60°)	1961.8	37.4			
FH (60°-80°)	1934.7	36.9			G2/5000
FVH (80°-90°)	104.0	2.0			G2/225
BL (0°-30°)	242.7	4.6	B1/500		
BM (30°-60°)	285.6	5.4	B1/1000		
BH (60°-80°)	316.2	6.0	B1/500		G1/500
BVH (80°-90°)	14.1	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1141.9	1141.9	1141.9	1141.9	1141.9	1141.9	1141.9	1141.9	1141.9	1141.9	1141.9
2.5°	1111.4	1120.3	1120.3	1126.8	1132.7	1137.5	1141.6	1141.6	1141.6	1138.8	1136.4
5°	994.5	1006.5	1008.2	1024.7	1046.3	1072.7	1102.2	1128.2	1133.3	1142.9	1146.7
7.5°	913.3	917.0	923.5	934.9	956.8	989.4	1035.6	1093.9	1108.0	1138.1	1153.9
10°	855.7	858.8	864.2	875.6	895.4	924.9	970.5	1046.3	1069.6	1123.1	1154.3
12.5°	813.5	815.9	821.0	831.3	851.6	878.0	924.6	1003.4	1032.2	1108.0	1159.1
15°	780.6	784.7	788.8	798.8	819.3	844.7	892.0	972.2	1003.4	1096.0	1168.0
17.5°	767.6	769.6	770.3	775.4	794.0	819.7	867.0	950.3	982.5	1086.4	1174.8
20°	775.8	776.1	769.3	765.8	776.5	800.1	846.1	933.8	966.7	1077.8	1177.6
22.5°	811.8	811.8	794.0	778.9	771.7	786.4	832.0	922.5	958.2	1071.3	1177.6
25°	880.3	877.3	849.5	819.7	787.8	781.6	823.1	915.3	951.7	1067.9	1173.1
27.5°	970.5	967.8	932.5	888.2	830.6	791.9	820.0	909.5	945.1	1062.7	1163.5
30°	1080.2	1077.8	1037.7	979.8	894.7	824.5	827.2	905.4	940.0	1054.2	1147.4
32.5°	1189.6	1188.2	1156.3	1097.0	983.2	879.7	846.1	904.7	937.3	1043.9	1127.9
35°	1299.6	1299.6	1280.1	1230.0	1102.2	962.6	885.5	917.4	942.4	1038.4	1111.1
37.5°	1462.1	1455.6	1419.3	1367.5	1252.0	1070.3	949.3	944.1	962.3	1047.6	1105.6
40°	1713.7	1694.9	1604.0	1517.0	1415.5	1208.1	1042.5	995.9	1006.8	1079.2	1118.6
42.5°	1977.0	1947.2	1826.9	1687.7	1584.5	1378.1	1164.9	1079.9	1079.5	1140.2	1160.1
45°	2202.9	2187.5	2057.2	1880.7	1777.5	1569.4	1319.5	1204.7	1192.3	1234.8	1240.0
47.5°	2334.2	2323.9	2245.4	2085.0	2006.5	1795.3	1515.6	1377.8	1354.5	1379.8	1371.9
50°	2297.9	2307.8	2285.2	2203.3	2252.6	2112.8	1765.5	1615.0	1570.8	1596.1	1577.0
52.5°	2106.6	2133.3	2153.6	2169.3	2394.2	2537.5	2079.5	1911.2	1874.5	1870.1	1851.5
55°	1762.1	1804.6	1868.3	1984.2	2356.2	2878.6	2628.0	2269.4	2216.0	2187.8	2195.0
57.5°	1199.2	1263.6	1401.1	1621.5	2158.4	3024.0	3439.1	2732.2	2641.7	2541.6	2564.9
60°	660.6	714.4	878.0	1100.1	1706.9	3002.4	4158.0	3484.4	3199.5	2934.2	2982.2
62.5°	427.5	439.1	560.8	751.5	1047.6	2650.6	4557.4	4741.5	4137.8	3451.8	3519.3
65°	343.5	351.7	411.4	606.1	729.9	1705.2	4575.2	6045.5	5647.5	4155.3	4157.3
67.5°	335.6	339.4	374.0	509.8	684.6	928.3	3954.7	6559.8	6652.0	4985.6	4584.1
68°	340.4	344.9	379.8	494.0	684.3	855.7	3655.1	6551.9	6709.9	5124.4	4584.1
70°	300.3	305.8	387.4	511.1	655.1	735.7	2502.9	6203.9	6458.3	5443.6	4349.6
72.5°	157.0	152.6	191.6	403.5	737.4	766.5	1322.2	5183.0	5479.9	5041.4	3757.9
75°	122.4	111.4	107.3	159.4	648.6	795.0	767.9	3683.9	3908.1	3634.2	2511.8
77.5°	115.2	101.8	93.9	94.3	285.6	827.2	621.2	2168.0	2168.0	1733.6	801.5
80°	92.6	80.2	75.1	85.7	137.8	762.4	648.3	988.0	842.6	448.1	220.8
82.5°	61.0	54.5	54.9	69.6	104.6	509.1	750.8	487.8	366.5	198.5	129.9
85°	38.7	33.3	37.0	48.7	78.2	226.9	743.2	339.0	242.7	111.4	64.8
87.5°	19.5	15.1	18.5	25.4	47.7	65.1	611.9	302.7	180.0	46.3	35.3
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°	1141.9	1141.9	1141.9	1141.9	1141.9	1141.9	1141.9	1141.9	1141.9	1141.9	1141.9
2.5°	1136.4	1128.9	1125.1	1118.9	1111.4	1103.9	1098.7	1096.3	1095.0	1095.6	1095.3
5°	1144.7	1134.7	1118.6	1095.6	1072.0	1047.0	1027.8	1013.0	1003.8	1001.0	1000.3
7.5°	1150.8	1136.4	1106.3	1064.4	1024.0	980.1	942.7	912.9	892.7	883.4	883.1
10°	1149.8	1131.3	1083.6	1021.9	962.6	898.2	839.6	789.5	753.2	735.7	735.0
12.5°	1150.8	1125.5	1055.9	972.2	887.2	795.0	707.9	630.1	575.9	550.2	549.2
15°	1154.9	1119.3	1027.4	916.7	799.1	668.8	544.4	446.7	397.3	380.5	380.5
17.5°	1154.6	1109.0	994.5	852.2	694.5	520.1	371.6	311.3	306.5	321.9	324.3
20°	1147.7	1092.6	952.0	775.8	571.8	360.0	252.0	243.4	281.8	324.3	329.1
22.5°	1137.1	1071.3	903.0	687.0	428.9	234.5	194.4	207.4	259.5	312.3	319.8
25°	1122.4	1045.6	846.8	583.8	285.2	168.7	162.2	178.3	214.9	250.3	255.7
27.5°	1100.8	1013.0	785.4	472.1	182.0	138.8	141.2	152.6	168.3	183.4	186.5
30°	1073.7	975.0	718.5	348.3	138.2	124.1	128.2	135.1	141.9	151.5	153.6
32.5°	1046.3	936.2	648.9	239.3	120.7	116.2	120.3	124.1	129.9	136.4	137.8
35°	1021.6	900.2	577.3	167.0	113.1	111.1	113.1	115.5	121.4	127.9	128.6
37.5°	1003.8	870.8	502.6	132.0	108.7	106.6	107.6	108.7	115.5	125.1	126.2
40°	1001.4	851.2	426.8	118.6	105.2	102.5	101.8	102.5	111.4	122.4	123.4
42.5°	1024.7	852.2	352.8	113.1	102.5	99.4	96.7	98.0	105.9	114.5	115.2
45°	1079.9	876.2	288.7	110.7	100.1	97.7	93.6	94.3	98.0	102.5	103.2
47.5°	1177.2	928.7	239.6	109.4	98.0	96.0	90.8	88.8	89.1	91.5	91.5
50°	1332.9	1016.4	209.8	108.0	96.3	92.6	86.7	82.6	81.6	83.0	83.3
52.5°	1565.0	1166.9	195.4	105.2	93.2	88.1	81.6	77.5	75.8	77.1	77.1
55°	1878.6	1407.3	188.5	101.5	89.5	82.6	76.8	73.4	72.0	73.0	73.0
57.5°	2236.2	1719.6	200.2	96.3	84.7	76.8	72.7	70.3	69.2	70.3	70.6
60°	2660.9	2128.2	280.4	89.8	79.5	71.6	69.2	67.9	67.2	68.2	68.2
62.5°	3225.5	2671.9	434.0	84.7	74.0	66.8	66.2	65.5	64.8	65.8	65.8
65°	3835.1	3166.6	446.7	81.6	69.2	62.7	63.1	63.1	62.4	63.4	63.4
67.5°	4029.1	3123.7	249.6	77.8	63.4	58.6	60.0	60.0	59.6	60.7	60.3
68°	3988.0	3055.9	217.3	76.8	62.4	57.6	59.0	59.3	59.0	60.0	59.6
70°	3681.5	2682.9	143.0	71.0	57.9	54.2	56.2	56.6	56.2	57.6	57.3
72.5°	3039.1	2012.3	105.6	62.0	52.5	49.7	51.8	52.1	52.5	53.8	53.5
75°	1930.1	1111.4	83.3	52.8	47.0	44.6	46.6	47.7	48.3	50.4	49.4
77.5°	528.6	337.3	67.5	44.9	40.5	39.4	40.8	42.2	42.9	45.3	43.5
80°	185.1	149.1	56.2	38.1	33.6	33.3	34.6	36.0	36.7	38.7	36.7
82.5°	112.4	97.4	44.9	29.8	26.4	26.1	27.8	29.1	29.8	29.8	28.5
85°	58.6	51.4	32.9	20.9	18.2	17.1	20.2	21.9	22.3	21.9	20.9
87.5°	32.9	29.1	17.5	9.9	8.2	8.6	10.6	13.0	14.1	13.7	13.0
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)