

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: McGRAW-EDISON

Report Number: P193599

Luminaire Tested: **GLEON-AF-01-LED-E1-SL2-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL2-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4621 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 67
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: 25 FT

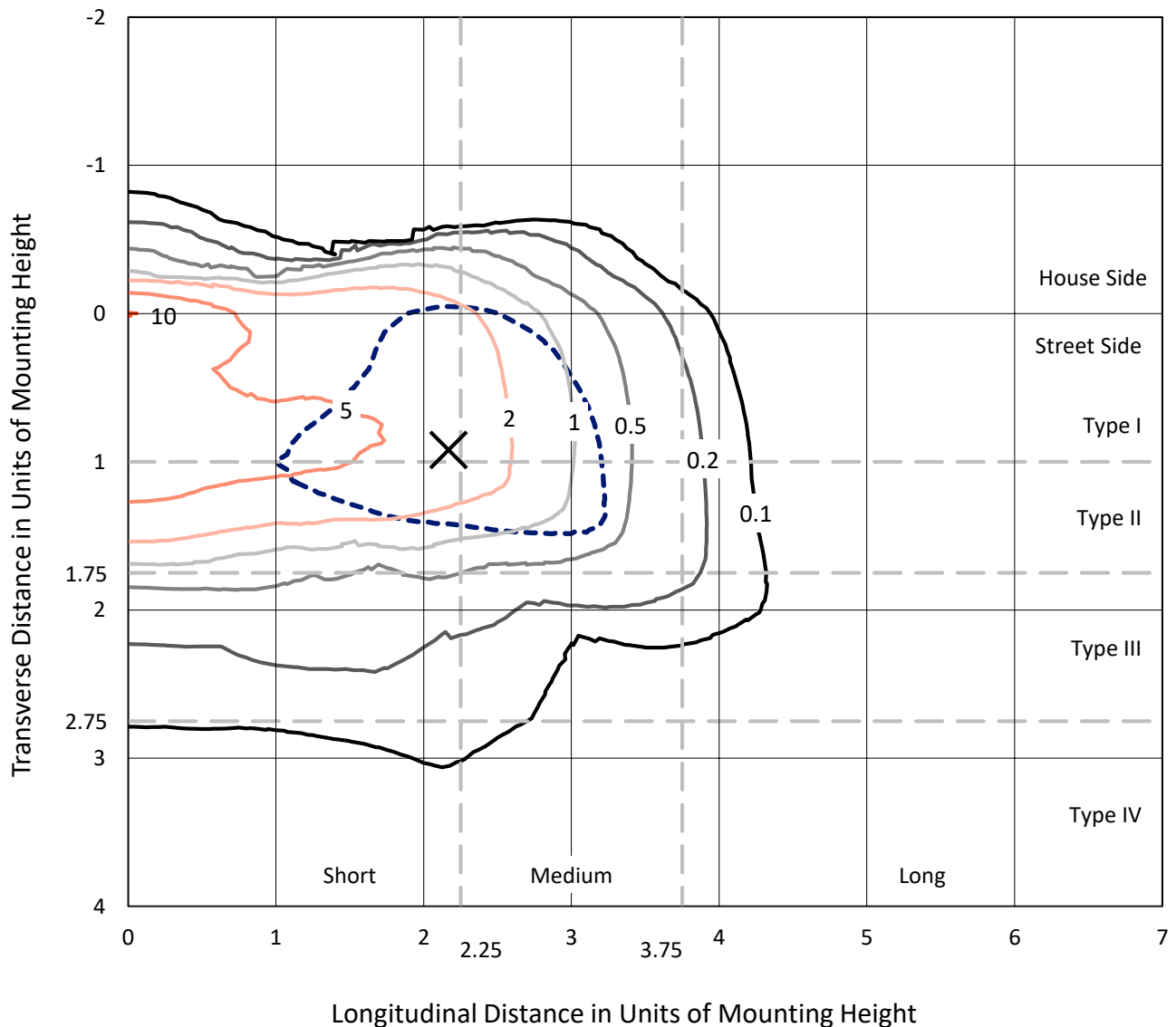


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

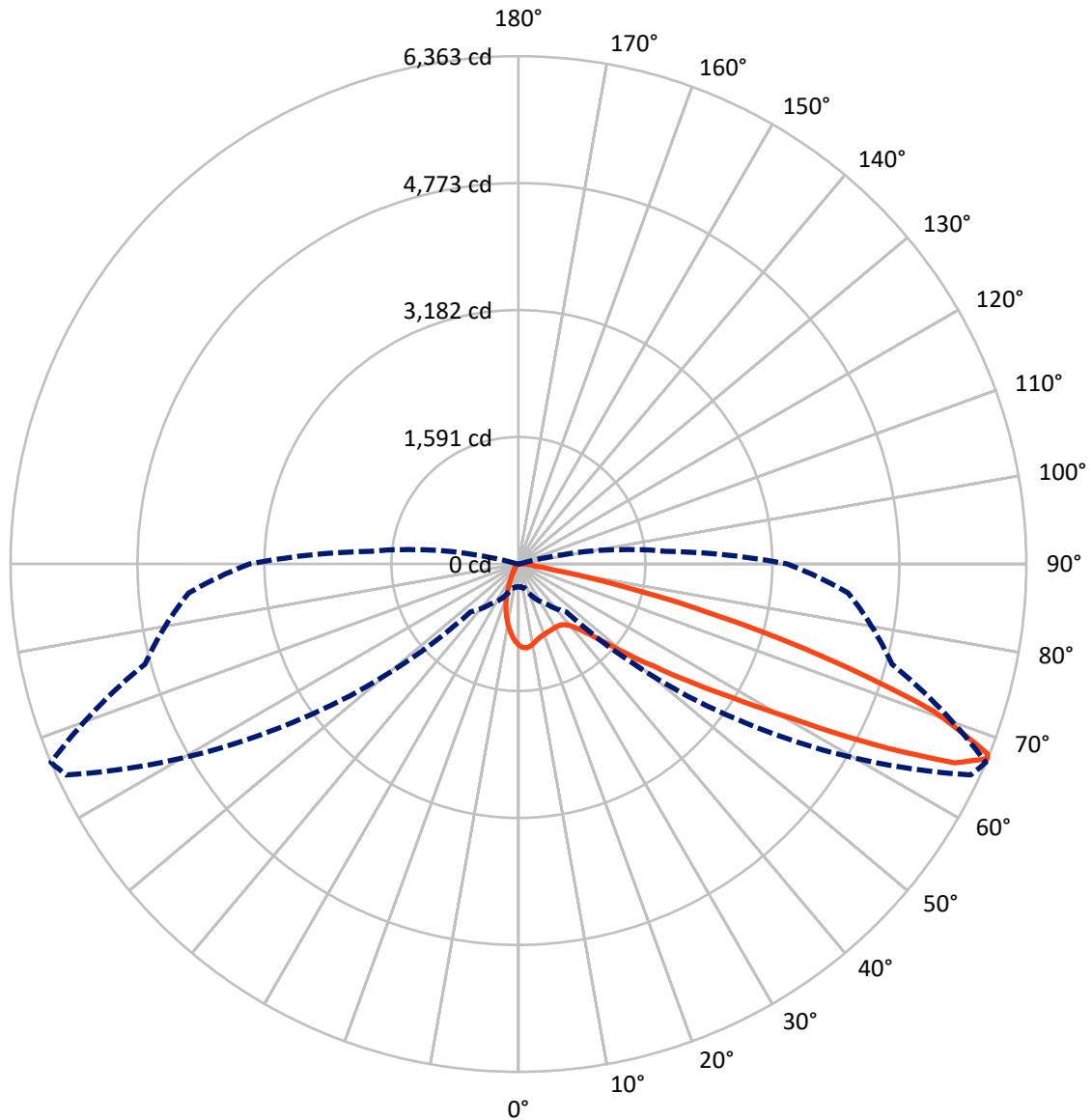


Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	479.8	0.0	479.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	4141.2	0.0	4141.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	4621.0	0.0	4621.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	1.8
10°-20°	176.5	3.8
20°-30°	256.6	5.6
30°-40°	400.3	8.7
40°-50°	709.1	15.3
50°-60°	1122.1	24.3
60°-70°	1285.2	27.8
70°-80°	533.1	11.5
80°-90°	55.1	1.2
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°	4621.0	100.0
0°-180°	4621.0	100.0



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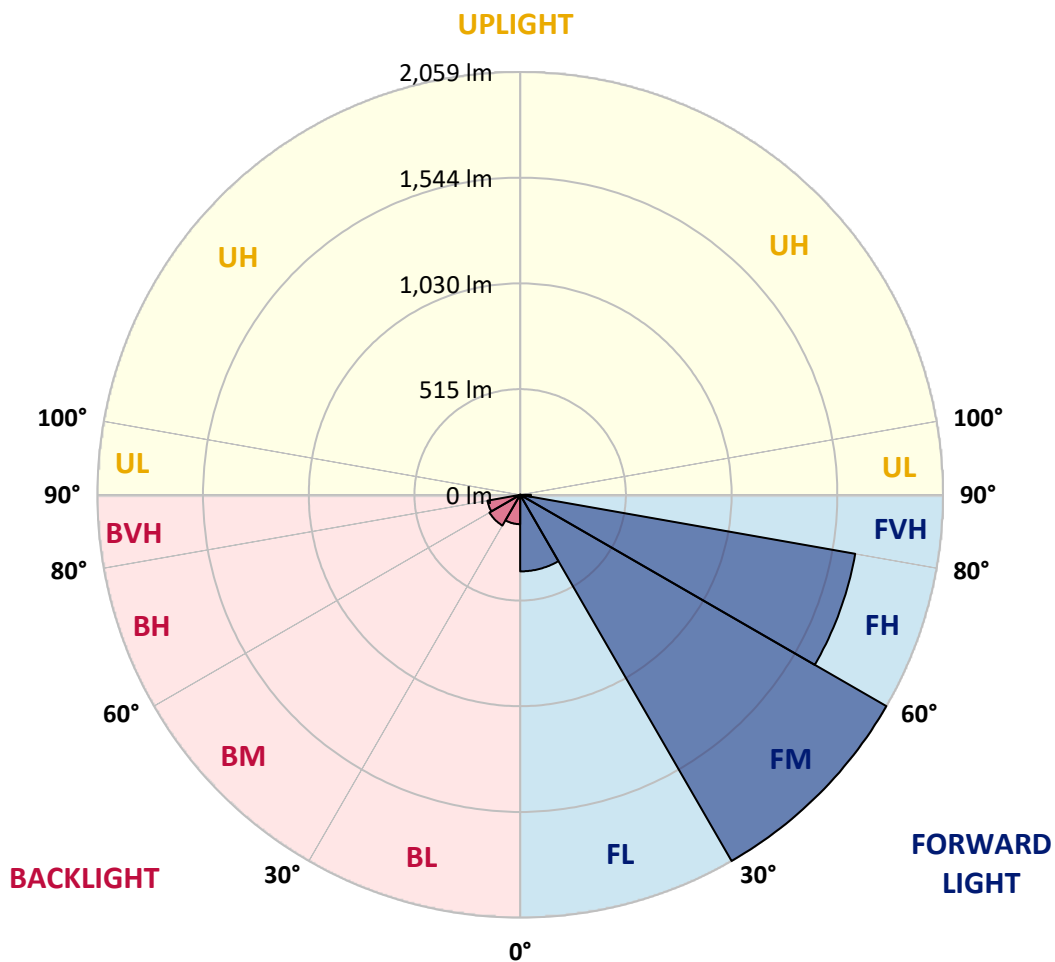
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	372.8	8.1			
FM (30°-60°)	2059.1	44.6			
FH (60°-80°)	1656.6	35.9			G1/1800
FVH (80°-90°)	52.6	1.1			G1/100
BL (0°-30°)	143.2	3.1	B1/500		
BM (30°-60°)	172.4	3.7	B0/220		
BH (60°-80°)	161.7	3.5	B1/500		G1/500
BVH (80°-90°)	2.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1019.1	1019.1	1019.1	1019.1	1019.1	1019.1	1019.1	1019.1	1019.1	1019.1	1019.1
2.5°	1053.6	1055.8	1055.5	1057.1	1060.9	1061.1	1057.4	1050.1	1048.5	1039.0	1022.6
5°	971.7	977.9	981.6	997.0	1014.2	1035.0	1050.6	1056.3	1055.5	1048.7	1024.0
7.5°	878.1	884.3	888.6	906.7	929.6	965.2	1005.9	1039.3	1042.3	1049.6	1022.9
10°	815.9	817.0	822.9	840.1	864.1	900.5	949.0	1007.5	1016.4	1043.1	1020.2
12.5°	764.7	765.5	773.3	791.9	817.5	854.1	905.1	972.7	986.5	1035.0	1019.6
15°	728.3	731.2	738.2	757.7	784.9	821.3	873.6	947.1	963.6	1032.0	1024.5
17.5°	716.1	719.4	721.5	735.6	760.4	795.9	849.6	930.4	949.0	1033.7	1033.9
20°	728.8	731.2	726.4	729.9	745.3	777.1	829.4	916.1	938.2	1035.5	1046.1
22.5°	776.0	777.1	763.9	748.5	745.8	763.3	813.4	904.8	928.5	1040.7	1060.3
25°	856.8	855.0	833.4	800.2	769.0	760.9	804.0	897.8	923.7	1046.1	1075.2
27.5°	954.4	957.1	927.5	879.2	819.6	777.1	802.7	894.8	921.5	1049.8	1088.1
30°	1073.0	1076.8	1042.8	982.2	896.7	817.0	815.1	894.3	920.2	1047.4	1089.2
32.5°	1194.0	1198.6	1171.9	1109.4	999.7	883.8	843.1	900.2	922.9	1039.0	1083.0
35°	1320.7	1327.2	1309.4	1255.8	1139.3	980.3	892.4	918.3	935.5	1038.2	1076.8
37.5°	1495.6	1501.6	1468.1	1411.3	1308.3	1109.7	971.7	952.3	965.5	1051.2	1078.4
40°	1756.8	1756.0	1669.8	1582.7	1494.0	1274.1	1083.0	1013.7	1020.4	1090.3	1098.3
42.5°	2041.4	2040.1	1912.6	1780.3	1700.2	1476.5	1229.3	1119.9	1115.3	1162.2	1150.1
45°	2260.8	2260.6	2156.5	2007.5	1948.4	1708.8	1418.5	1267.6	1260.6	1279.2	1245.5
47.5°	2354.4	2356.0	2303.7	2198.8	2223.6	2023.1	1657.1	1481.6	1471.1	1463.6	1412.3
50°	2281.6	2284.8	2289.1	2268.7	2425.5	2445.5	1977.0	1783.2	1778.1	1744.4	1664.4
52.5°	2043.9	2060.3	2111.0	2175.9	2495.6	2850.8	2478.6	2157.9	2130.4	2094.5	2006.4
55°	1643.3	1661.4	1757.6	1915.3	2391.3	3117.1	3181.6	2640.9	2595.1	2488.1	2360.8
57.5°	1087.6	1115.6	1255.2	1455.7	2088.3	3160.0	3882.9	3311.2	3151.6	2858.7	2715.3
60°	599.2	626.1	777.6	959.3	1508.3	2948.1	4354.6	4183.9	3902.0	3272.9	3145.7
62.5°	369.0	383.5	495.4	664.4	904.5	2326.9	4452.1	5280.7	4954.3	3806.3	3665.6
65°	293.8	300.0	354.7	543.1	648.5	1384.0	4137.0	6116.8	6007.9	4452.1	4131.1
67°	285.2	287.6	313.5	466.3	611.3	848.5	3465.9	6252.9	6363.4	4843.0	4145.7
67.5°	287.1	289.7	314.3	445.0	610.2	779.8	3234.7	6199.2	6338.9	4874.0	4081.3
70°	276.8	285.2	359.8	444.7	580.3	648.0	1937.1	5371.2	5516.5	4528.7	3462.9
72.5°	98.1	98.6	155.5	359.8	631.0	655.0	972.7	3937.6	4045.1	3464.3	2496.7
75°	58.2	49.6	51.8	102.4	602.9	636.1	561.2	2516.1	2556.2	1985.1	1264.4
77.5°	40.2	35.0	36.1	45.3	229.6	627.2	445.8	1312.1	1269.2	696.2	269.3
80°	22.9	20.2	21.6	39.6	83.6	585.2	420.5	532.1	453.6	118.1	74.4
82.5°	12.1	10.2	12.4	32.6	58.2	364.7	421.3	257.1	203.8	39.9	50.7
85°	4.3	3.5	5.9	22.4	38.8	111.9	390.6	216.2	169.8	19.4	38.5
87.5°	0.8	0.8	2.4	9.2	15.6	34.2	231.0	128.3	86.0	11.6	26.4
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°	1019.1	1019.1	1019.1	1019.1	1019.1	1019.1	1019.1	1019.1	1019.1	1019.1	1019.1
2.5°	1015.9	1004.3	988.6	969.5	946.9	926.9	912.1	896.7	893.5	888.1	887.3
5°	1009.1	989.2	950.4	905.9	858.5	815.6	780.8	749.8	736.1	724.2	722.9
7.5°	999.2	969.2	903.2	831.5	757.4	690.0	632.9	592.4	555.2	537.4	534.8
10°	987.6	944.7	850.1	750.6	648.2	553.1	468.2	397.0	353.9	328.3	325.1
12.5°	976.8	920.7	795.9	666.8	530.7	403.5	294.3	226.4	181.1	162.8	160.6
15°	971.7	901.3	745.3	581.1	407.8	256.9	160.9	124.5	109.7	105.4	105.1
17.5°	971.1	884.9	695.7	492.4	285.7	149.3	104.8	95.7	92.7	91.6	91.6
20°	970.9	869.2	646.1	400.5	181.4	99.5	87.3	85.2	83.0	81.7	81.7
22.5°	973.8	855.2	594.3	306.7	114.3	80.6	76.8	74.7	72.0	70.1	69.8
25°	976.8	844.4	541.5	218.3	82.7	70.1	66.3	63.3	59.6	57.1	56.9
27.5°	977.3	831.0	484.9	146.1	69.3	61.2	56.3	51.8	47.4	45.0	44.7
30°	969.2	808.3	422.1	98.6	61.2	53.1	46.6	41.8	37.7	35.8	35.8
32.5°	953.3	780.3	353.1	74.4	54.4	45.6	38.5	34.0	31.3	30.5	30.2
35°	939.1	750.1	282.2	63.1	48.8	38.5	31.5	28.6	27.0	26.7	26.4
37.5°	930.7	725.9	215.6	57.1	43.4	32.3	26.7	24.5	23.7	23.2	23.4
40°	937.2	705.6	159.3	52.3	38.0	27.0	22.6	21.6	20.8	20.5	20.5
42.5°	965.5	702.1	118.3	48.0	32.9	22.4	19.7	18.9	18.3	18.1	18.3
45°	1039.9	723.7	91.9	43.9	27.8	18.9	16.7	16.4	16.2	16.2	16.2
47.5°	1151.7	768.2	76.5	39.4	23.2	16.2	14.6	14.3	14.0	14.3	14.3
50°	1341.2	849.6	68.5	34.8	19.1	13.7	12.4	12.4	12.4	12.4	12.7
52.5°	1629.3	1009.7	63.1	30.2	15.6	11.6	10.5	10.5	10.8	10.8	11.1
55°	1950.3	1222.1	58.2	25.6	13.2	9.7	8.6	8.9	9.2	9.4	9.4
57.5°	2298.6	1457.4	54.2	21.0	11.3	7.8	7.3	7.5	7.8	8.4	8.4
60°	2718.8	1712.1	48.2	16.4	9.4	6.2	5.7	6.2	7.0	7.5	7.8
62.5°	3180.2	1958.4	40.7	12.9	7.8	4.9	4.6	5.7	6.7	7.3	7.5
65°	3495.6	2035.8	31.3	10.5	5.9	3.5	3.8	5.1	6.5	7.3	7.3
67°	3367.8	1845.8	25.6	8.9	4.9	2.7	3.5	5.1	6.5	7.0	7.3
67.5°	3279.1	1771.4	24.5	8.6	4.6	2.7	3.5	5.1	6.5	7.3	7.3
70°	2668.1	1330.7	20.5	6.5	3.8	2.4	3.0	4.9	6.2	7.0	7.0
72.5°	1853.8	820.5	18.3	4.6	3.2	2.2	2.7	4.6	5.9	6.7	7.0
75°	881.4	297.0	15.6	3.5	3.0	1.9	2.4	4.6	5.9	6.7	6.7
77.5°	179.8	69.0	12.7	3.0	2.4	1.9	2.2	4.3	5.7	6.5	6.5
80°	59.0	26.7	9.4	2.7	2.4	1.9	2.2	4.0	5.7	6.2	6.5
82.5°	42.6	13.5	6.2	2.7	2.4	1.9	1.9	4.0	5.4	6.2	6.2
85°	32.6	9.4	4.0	2.7	2.4	1.9	1.9	3.8	5.1	5.9	5.9
87.5°	21.6	3.8	3.2	2.7	2.4	1.9	1.9	3.8	4.9	5.7	5.9
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)