

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: P191239

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA 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: 4893.8 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

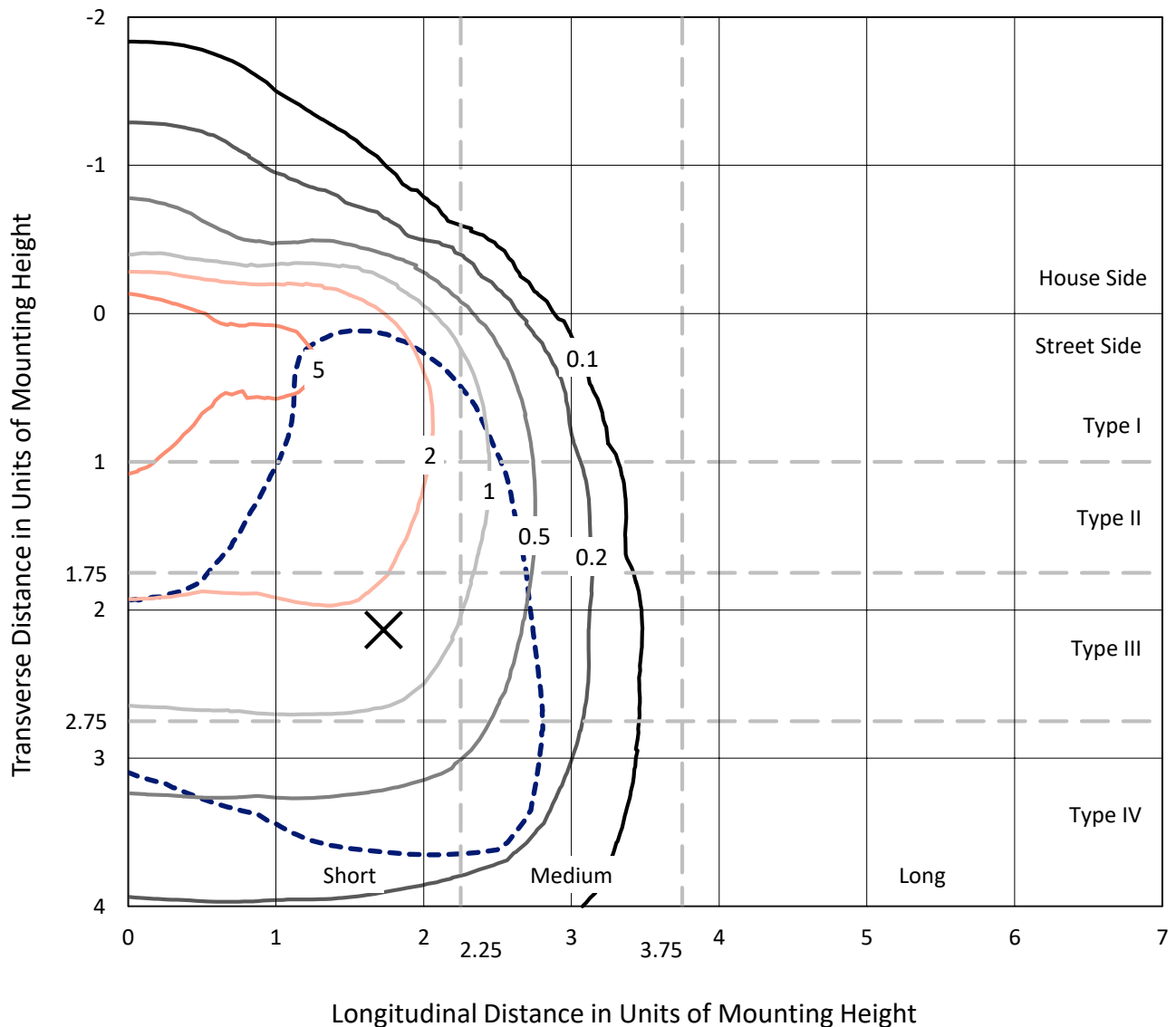
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

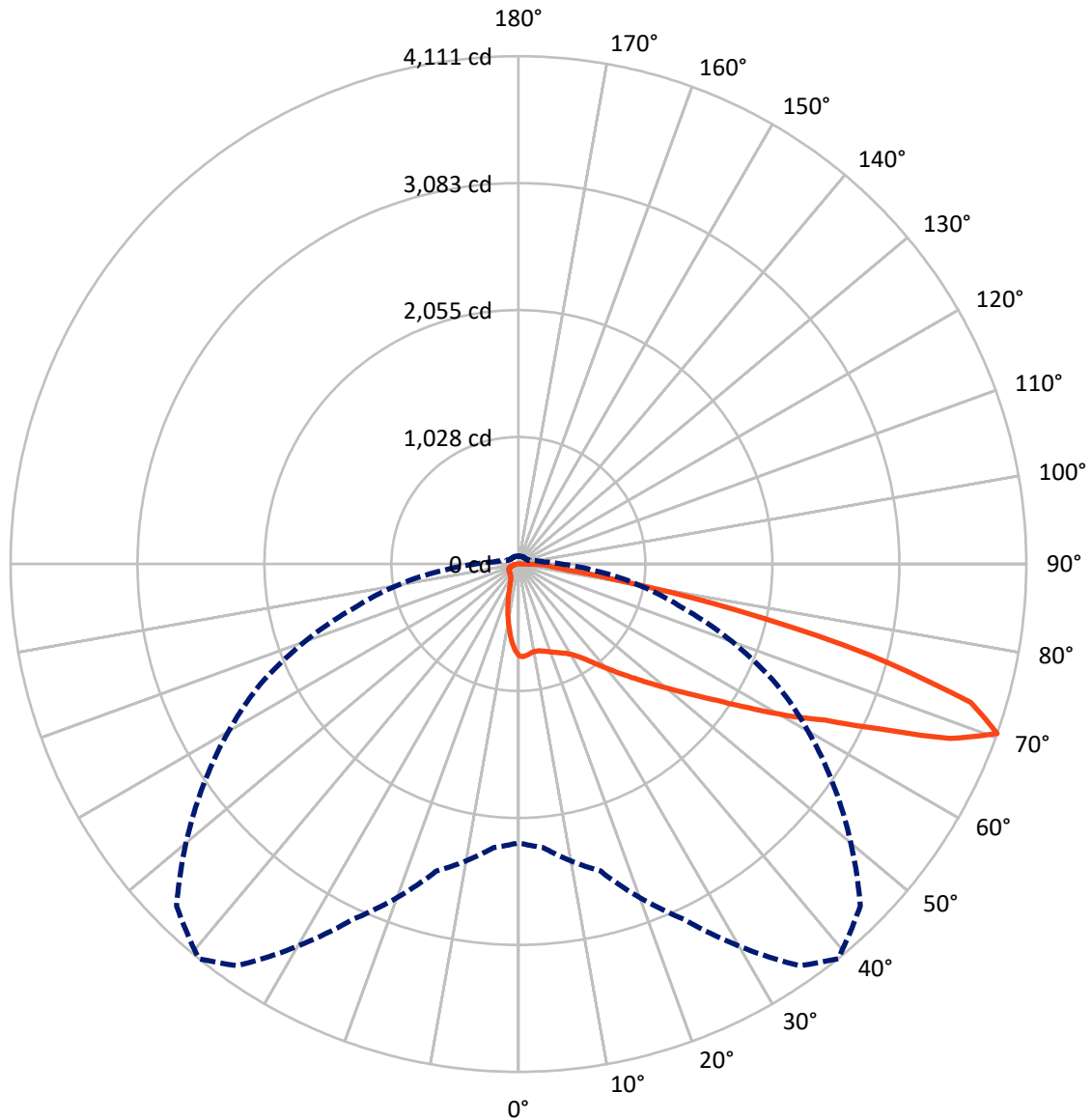
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	556.6	0.0	556.6
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	4337.2	0.0	4337.2
	% Fixture	88.6	0.0	88.6
Total	Lumens	4893.8	0.0	4893.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	1.3
10°-20°	159.4	3.3
20°-30°	248.2	5.1
30°-40°	386.6	7.9
40°-50°	649.0	13.3
50°-60°	1031.0	21.1
60°-70°	1375.2	28.1
70°-80°	830.4	17.0
80°-90°	150.3	3.1
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°	4893.8	100.0
0°-180°	4893.8	100.0



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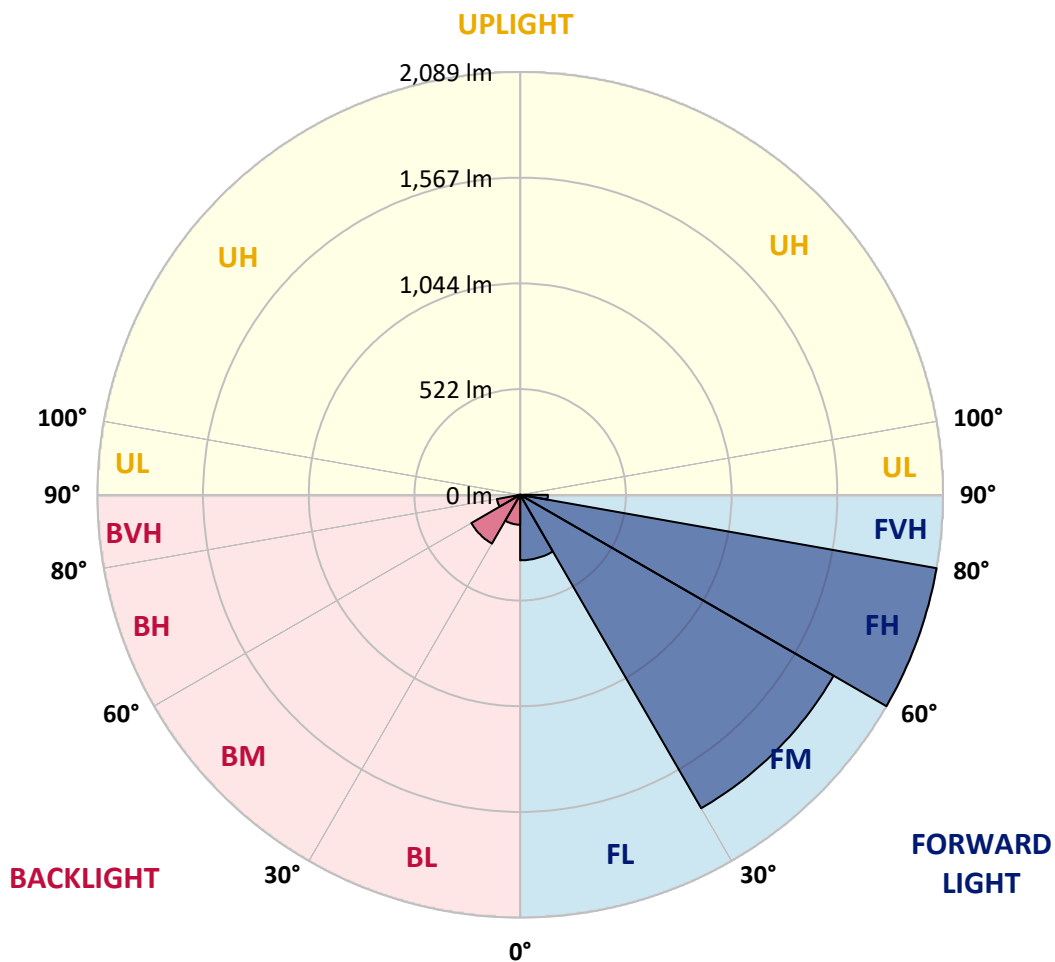
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	323.6	6.6			
FM	(30°-60°)	1788.0	36.5			
FH	(60°-80°)	2088.8	42.7			G2/5000
FVH	(80°-90°)	136.8	2.8			G2/225
BL	(0°-30°)	147.7	3.0	B1/500		
BM	(30°-60°)	278.5	5.7	B1/1000		
BH	(60°-80°)	116.8	2.4	B1/500		G1/500
BVH	(80°-90°)	13.5	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°	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
2.5°	757.4	757.1	755.1	753.6	752.4	751.9	752.9	749.2	745.9	741.9	737.8
5°	751.7	751.5	748.2	745.2	742.3	741.2	740.9	734.3	730.3	724.2	716.4
7.5°	745.4	744.2	740.0	735.0	729.8	727.3	724.8	716.1	711.6	705.6	696.4
10°	739.0	737.4	733.5	728.5	723.5	719.9	715.6	707.2	702.4	698.0	687.2
12.5°	732.2	731.0	730.0	727.7	724.2	721.1	717.8	710.6	705.6	700.4	687.9
15°	731.3	730.8	733.0	734.5	732.5	730.5	727.0	720.8	715.6	710.3	694.2
17.5°	739.2	739.0	744.7	748.7	747.7	744.2	739.5	732.5	728.2	723.8	703.7
20°	756.7	757.9	764.9	770.1	765.1	760.2	752.4	742.7	740.5	738.5	713.3
22.5°	789.5	790.7	795.8	797.7	784.7	777.5	766.8	754.4	752.9	754.4	725.1
25°	840.8	839.5	838.7	831.2	807.6	796.5	782.8	769.9	770.6	777.3	741.4
27.5°	908.7	901.9	891.5	869.1	831.6	819.1	802.4	790.4	795.2	808.1	766.1
30°	979.1	971.6	947.5	910.9	862.9	849.2	830.5	817.1	829.5	850.0	798.9
32.5°	1044.2	1043.3	1007.9	961.0	906.1	894.3	875.5	860.4	880.6	911.7	848.2
35°	1115.4	1117.7	1075.3	1018.9	964.6	952.2	938.8	927.3	954.2	997.0	919.6
37.5°	1191.5	1196.0	1146.0	1082.4	1031.3	1026.1	1018.1	1013.1	1054.8	1113.9	1019.4
40°	1293.3	1288.8	1219.5	1154.0	1113.2	1113.0	1110.4	1116.4	1185.6	1266.7	1147.5
42.5°	1402.3	1389.2	1297.3	1230.9	1203.0	1211.5	1216.5	1240.8	1343.1	1452.3	1303.8
45°	1519.8	1490.1	1378.2	1312.2	1302.8	1320.7	1337.6	1390.6	1528.5	1663.5	1475.0
47.5°	1613.5	1585.0	1461.8	1397.6	1418.2	1445.3	1478.0	1561.8	1735.9	1881.7	1643.9
50°	1687.5	1668.7	1546.1	1497.1	1545.4	1587.2	1640.4	1755.6	1951.9	2094.3	1800.4
52.5°	1759.1	1745.2	1631.2	1599.1	1694.6	1752.4	1824.8	1963.7	2173.4	2303.3	1932.0
55°	1823.8	1813.8	1722.8	1726.2	1870.4	1945.4	2036.5	2200.5	2414.7	2489.7	2043.4
57.5°	1896.7	1884.0	1827.3	1885.7	2096.0	2193.5	2312.0	2466.7	2641.2	2655.4	2128.4
60°	1970.1	1959.2	1943.2	2069.8	2382.7	2485.2	2597.4	2724.7	2870.8	2784.0	2123.3
62.5°	2033.8	2035.1	2063.2	2263.2	2663.3	2782.0	2918.8	3044.7	3078.6	2806.4	1966.3
65°	2141.8	2161.4	2245.3	2536.9	3058.4	3217.2	3385.0	3364.9	3136.1	2597.1	1629.8
67.5°	2270.1	2304.7	2474.7	2901.7	3557.7	3768.6	3833.4	3437.3	2905.9	2111.2	1161.7
70°	2257.2	2304.7	2573.7	3173.6	3969.4	4110.6	3913.6	3110.9	2307.5	1379.1	617.0
72.5°	2004.5	2072.4	2371.9	3048.9	3839.6	3827.3	3397.5	2319.1	1371.0	553.8	241.1
75°	1527.7	1596.4	1854.2	2408.7	3034.8	2930.2	2410.8	1281.1	520.3	219.9	152.0
77.5°	878.8	932.0	1131.1	1477.2	1925.3	1818.1	1341.8	569.8	253.3	153.2	118.7
80°	490.6	520.3	641.2	749.4	943.5	864.9	600.4	354.0	189.1	111.2	91.6
82.5°	387.9	414.3	518.5	472.7	431.0	397.6	344.8	315.3	151.0	70.2	54.7
85°	338.9	364.0	438.9	372.3	294.3	270.0	280.2	310.3	117.4	42.2	46.7
87.5°	314.0	347.6	391.2	286.8	229.1	203.1	258.5	340.1	37.8	26.4	18.9
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°	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
2.5°	734.0	730.0	723.5	717.8	708.9	704.1	698.9	695.2	692.2	689.7	693.7
5°	711.4	703.9	690.2	675.6	658.1	644.5	633.0	622.3	614.8	609.9	613.4
7.5°	690.0	677.8	656.3	629.7	599.9	574.5	553.6	535.2	522.5	514.3	517.5
10°	677.8	662.6	629.5	587.7	543.7	504.1	471.3	442.8	423.2	412.0	413.8
12.5°	674.7	655.1	609.4	551.9	491.6	436.7	390.4	351.1	323.5	309.0	309.5
15°	677.0	651.9	590.4	517.5	441.4	371.9	314.3	266.5	234.4	218.0	217.7
17.5°	680.8	649.4	570.5	480.5	390.4	309.7	245.3	198.6	170.2	157.0	156.0
20°	684.8	645.4	548.1	440.4	337.4	252.1	192.1	155.5	137.6	130.4	129.9
22.5°	690.5	641.9	525.0	398.1	285.4	205.3	158.0	133.4	123.9	120.2	119.7
25°	699.7	640.2	500.3	354.0	238.7	171.7	137.6	122.4	116.9	114.5	114.2
27.5°	715.0	642.7	477.2	311.3	200.5	149.0	126.1	116.9	112.9	110.7	110.5
30°	735.0	650.4	452.9	270.7	170.9	133.6	119.2	113.2	110.0	107.7	107.7
32.5°	768.1	663.4	427.2	235.6	149.8	123.0	114.0	110.0	107.2	105.5	105.3
35°	816.8	687.7	403.3	206.5	134.6	115.2	109.5	106.5	104.5	103.5	103.5
37.5°	887.7	726.3	382.2	185.6	125.4	110.0	105.3	103.0	101.8	101.8	101.8
40°	983.1	779.5	365.0	171.7	120.2	106.3	102.0	100.2	99.5	99.7	99.7
42.5°	1100.8	848.7	353.5	161.9	117.6	104.0	99.7	98.3	97.5	97.3	97.5
45°	1234.9	927.3	352.3	154.8	115.2	102.5	98.3	96.8	95.3	94.3	94.3
47.5°	1365.2	1007.2	362.5	152.3	112.4	100.8	97.1	95.5	93.3	91.0	91.0
50°	1480.4	1075.1	376.2	153.2	111.5	98.3	95.0	94.3	90.8	88.3	88.1
52.5°	1572.0	1127.4	387.4	156.2	112.4	96.6	92.6	92.8	89.1	86.3	86.1
55°	1645.4	1161.7	384.4	159.3	114.7	95.5	90.3	90.8	87.9	85.1	85.1
57.5°	1677.5	1149.0	351.3	156.7	116.4	95.7	88.6	90.5	88.1	85.6	85.6
60°	1608.6	1036.4	289.4	145.8	114.2	95.0	87.9	91.6	91.3	88.8	88.6
62.5°	1400.1	834.5	224.4	129.6	106.5	91.3	85.8	91.3	94.0	93.3	93.1
65°	1079.1	594.4	171.4	112.2	96.1	85.1	80.6	85.6	89.3	90.3	90.0
67.5°	700.4	364.3	132.2	95.7	84.4	77.8	73.9	76.1	76.9	76.9	76.4
70°	344.3	196.1	105.3	80.6	72.4	70.2	67.9	66.7	65.5	64.4	64.4
72.5°	169.9	128.2	86.5	68.1	62.5	61.5	61.0	59.4	58.5	57.2	56.8
75°	125.6	104.2	73.7	57.5	53.7	52.8	53.7	52.5	52.3	51.2	50.7
77.5°	103.2	88.8	63.4	49.3	46.0	44.3	45.8	46.0	46.2	44.8	44.3
80°	83.9	75.2	53.0	40.8	37.8	36.6	37.5	39.6	40.1	37.8	36.8
82.5°	60.5	61.5	42.8	31.8	29.4	28.3	30.4	32.8	33.3	30.1	29.4
85°	50.7	51.2	32.8	22.6	20.2	18.6	21.9	24.3	26.1	22.9	22.1
87.5°	21.2	30.1	18.9	12.7	11.2	9.7	11.7	12.9	15.7	14.4	14.2
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)