

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: P192039

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192039
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-SL4-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 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: 4784 lumens
Efficiency: N/A
Efficacy: 108.7 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

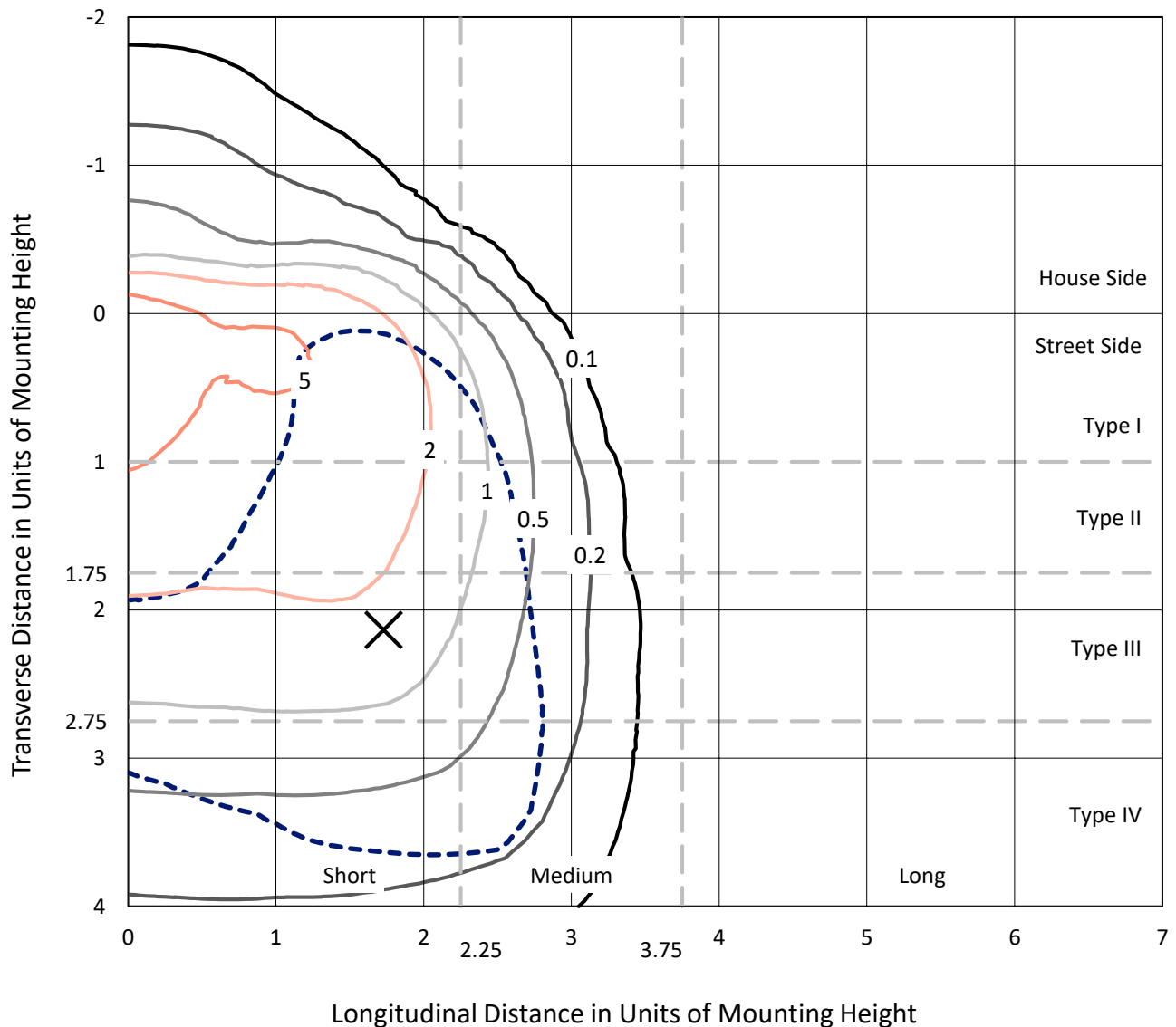


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Iso-Footcandle Lines of Horizontal Illumination

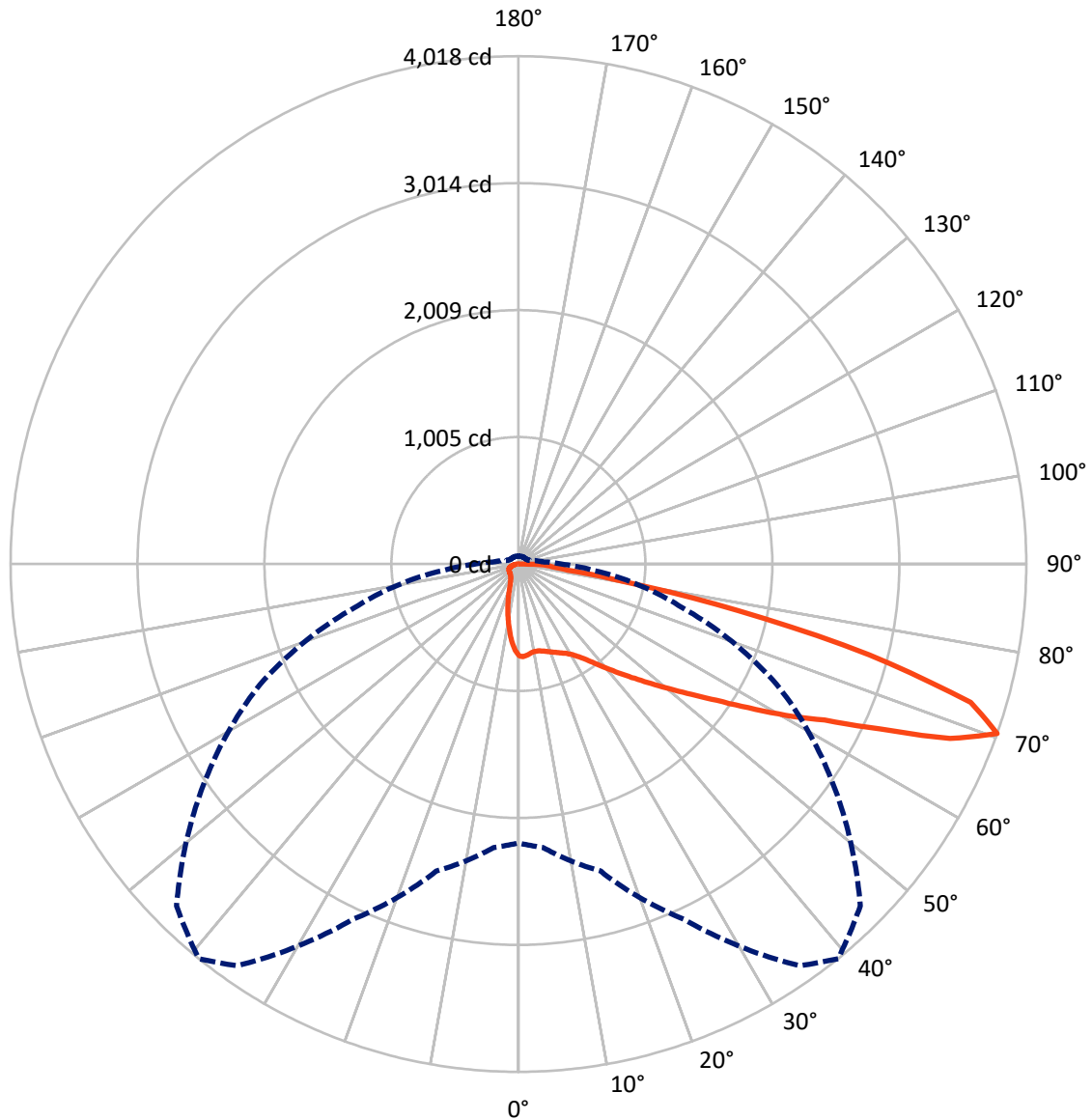
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 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	544.1	0.0	544.1
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	4239.9	0.0	4239.9
	% Fixture	88.6	0.0	88.6
Total	Lumens	4784.0	0.0	4784.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	1.3
10°-20°	155.8	3.3
20°-30°	242.6	5.1
30°-40°	377.9	7.9
40°-50°	634.4	13.3
50°-60°	1007.8	21.1
60°-70°	1344.4	28.1
70°-80°	811.8	17.0
80°-90°	146.9	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°	4784.0	100.0
0°-180°	4784.0	100.0



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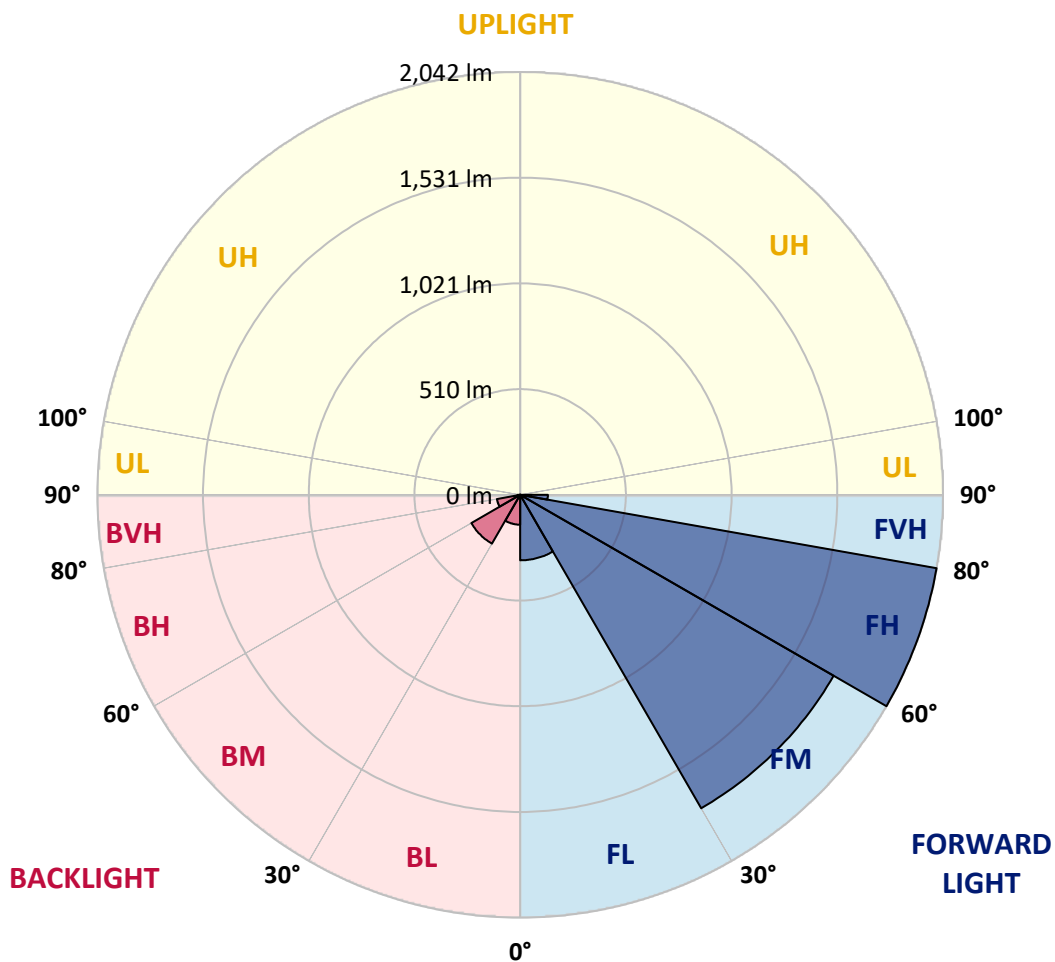
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	316.4	6.6			
FM	(30°-60°)	1747.9	36.5			
FH	(60°-80°)	2041.9	42.7			G2/5000
FVH	(80°-90°)	133.7	2.8			G2/225
BL	(0°-30°)	144.3	3.0	B1/500		
BM	(30°-60°)	272.3	5.7	B1/1000		
BH	(60°-80°)	114.2	2.4	B1/500		G1/500
BVH	(80°-90°)	13.2	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°	726.3	726.3	726.3	726.3	726.3	726.3	726.3	726.3	726.3	726.3	726.3
2.5°	740.4	740.1	738.2	736.7	735.5	735.0	736.0	732.4	729.2	725.3	721.2
5°	734.8	734.6	731.4	728.5	725.6	724.6	724.3	717.8	713.9	708.0	700.3
7.5°	728.7	727.5	723.4	718.5	713.4	711.0	708.5	700.0	695.6	689.8	680.8
10°	722.4	720.9	717.0	712.2	707.3	703.7	699.5	691.3	686.6	682.3	671.8
12.5°	715.8	714.6	713.6	711.4	708.0	704.9	701.7	694.7	689.8	684.7	672.5
15°	714.9	714.4	716.6	718.0	716.1	714.1	710.7	704.6	699.5	694.4	678.6
17.5°	722.6	722.4	728.0	731.9	730.9	727.5	722.9	716.1	711.9	707.6	687.9
20°	739.7	740.9	747.7	752.8	747.9	743.1	735.5	726.0	723.9	721.9	697.3
22.5°	771.8	773.0	777.9	779.8	767.1	760.1	749.6	737.5	736.0	737.5	708.8
25°	821.9	820.7	819.9	812.6	789.5	778.6	765.2	752.6	753.3	759.9	724.8
27.5°	888.3	881.7	871.5	849.6	812.9	800.7	784.4	772.7	777.4	790.0	748.9
30°	957.1	949.8	926.2	890.5	843.5	830.1	811.9	798.8	810.9	830.9	781.0
32.5°	1020.8	1019.9	985.3	939.4	885.8	874.2	855.9	841.1	860.8	891.2	829.2
35°	1090.4	1092.6	1051.2	996.0	943.0	930.8	917.7	906.5	932.8	974.6	899.0
37.5°	1164.8	1169.2	1120.3	1058.1	1008.2	1003.1	995.3	990.4	1031.1	1088.9	996.5
40°	1264.3	1259.9	1192.1	1128.1	1088.2	1088.0	1085.5	1091.4	1159.0	1238.3	1121.8
42.5°	1370.8	1358.0	1268.2	1203.3	1176.0	1184.3	1189.2	1213.0	1313.0	1419.7	1274.5
45°	1485.7	1456.7	1347.3	1282.8	1273.6	1291.1	1307.6	1359.4	1494.2	1626.2	1441.9
47.5°	1577.3	1549.4	1429.0	1366.2	1386.4	1412.9	1444.8	1526.8	1697.0	1839.5	1607.0
50°	1649.6	1631.3	1511.4	1463.5	1510.7	1551.6	1603.6	1716.2	1908.1	2047.3	1760.0
52.5°	1719.6	1706.0	1594.6	1563.2	1656.6	1713.1	1783.9	1919.6	2124.6	2251.6	1888.7
55°	1782.9	1773.1	1684.1	1687.5	1828.4	1901.8	1990.8	2151.1	2360.5	2433.8	1997.6
57.5°	1854.1	1841.7	1786.3	1843.4	2049.0	2144.3	2260.1	2411.4	2581.9	2595.8	2080.6
60°	1925.9	1915.2	1899.6	2023.4	2329.2	2429.4	2539.1	2663.6	2806.4	2721.5	2075.7
62.5°	1988.2	1989.4	2016.9	2212.4	2603.5	2719.6	2853.3	2976.4	3009.5	2743.4	1922.2
65°	2093.7	2112.9	2194.9	2480.0	2989.8	3145.0	3309.1	3289.4	3065.7	2538.8	1593.2
67.5°	2219.2	2253.0	2419.2	2836.6	3477.9	3684.0	3747.4	3360.2	2840.7	2063.8	1135.6
70°	2206.6	2253.0	2516.0	3102.4	3880.3	4018.4	3825.8	3041.1	2255.7	1348.2	603.2
72.5°	1959.5	2025.9	2318.7	2980.5	3753.5	3741.4	3321.3	2267.1	1340.2	541.4	235.7
75°	1493.4	1560.6	1812.6	2354.7	2966.7	2864.5	2356.7	1252.4	508.6	215.0	148.6
77.5°	859.1	911.1	1105.7	1444.1	1882.1	1777.3	1311.7	557.0	247.6	149.8	116.0
80°	479.6	508.6	626.8	732.6	922.3	845.5	586.9	346.1	184.9	108.7	89.5
82.5°	379.2	405.0	506.9	462.1	421.3	388.7	337.1	308.2	147.6	68.6	53.5
85°	331.3	355.8	429.1	363.9	287.7	263.9	273.9	303.3	114.8	41.3	45.7
87.5°	307.0	339.8	382.4	280.4	224.0	198.5	252.7	332.5	37.0	25.8	18.5
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°	726.3	726.3	726.3	726.3	726.3	726.3	726.3	726.3	726.3	726.3	726.3
2.5°	717.5	713.6	707.3	701.7	693.0	688.3	683.2	679.6	676.7	674.2	678.1
5°	695.4	688.1	674.7	660.4	643.3	630.0	618.8	608.3	601.0	596.2	599.6
7.5°	674.5	662.6	641.6	615.6	586.4	561.6	541.2	523.2	510.8	502.8	505.9
10°	662.6	647.7	615.4	574.5	531.5	492.8	460.7	432.9	413.7	402.8	404.5
12.5°	659.6	640.4	595.7	539.5	480.6	426.9	381.6	343.2	316.2	302.1	302.6
15°	661.8	637.3	577.2	505.9	431.5	363.6	307.2	260.5	229.1	213.1	212.8
17.5°	665.5	634.8	557.7	469.7	381.6	302.8	239.8	194.1	166.4	153.5	152.5
20°	669.4	630.9	535.8	430.5	329.8	246.4	187.8	152.0	134.5	127.5	127.0
22.5°	675.0	627.5	513.2	389.2	279.0	200.7	154.5	130.4	121.1	117.5	117.0
25°	684.0	625.8	489.1	346.1	233.3	167.8	134.5	119.7	114.3	111.9	111.6
27.5°	699.0	628.3	466.5	304.3	196.0	145.7	123.3	114.3	110.4	108.2	108.0
30°	718.5	635.8	442.7	264.6	167.1	130.6	116.5	110.7	107.5	105.3	105.3
32.5°	750.9	648.5	417.6	230.3	146.4	120.2	111.4	107.5	104.8	103.1	102.9
35°	798.5	672.3	394.3	201.9	131.6	112.6	107.0	104.1	102.2	101.2	101.2
37.5°	867.8	710.0	373.6	181.4	122.6	107.5	102.9	100.7	99.5	99.5	99.5
40°	961.0	762.0	356.8	167.8	117.5	103.9	99.7	98.0	97.3	97.5	97.5
42.5°	1076.1	829.7	345.6	158.3	115.0	101.7	97.5	96.1	95.3	95.1	95.3
45°	1207.2	906.5	344.4	151.3	112.6	100.2	96.1	94.6	93.2	92.2	92.2
47.5°	1334.6	984.6	354.4	148.9	109.9	98.5	94.9	93.4	91.2	89.0	89.0
50°	1447.2	1051.0	367.8	149.8	109.0	96.1	92.9	92.2	88.8	86.3	86.1
52.5°	1536.7	1102.1	378.7	152.7	109.9	94.4	90.5	90.7	87.1	84.4	84.2
55°	1608.5	1135.6	375.8	155.7	112.1	93.4	88.3	88.8	85.9	83.2	83.2
57.5°	1639.9	1123.2	343.4	153.2	113.8	93.6	86.6	88.5	86.1	83.7	83.7
60°	1572.5	1013.1	282.9	142.5	111.6	92.9	85.9	89.5	89.3	86.8	86.6
62.5°	1368.7	815.8	219.4	126.7	104.1	89.3	83.9	89.3	91.9	91.2	91.0
65°	1054.9	581.1	167.6	109.7	93.9	83.2	78.8	83.7	87.3	88.3	88.0
67.5°	684.7	356.1	129.2	93.6	82.5	76.1	72.2	74.4	75.2	75.2	74.7
70°	336.6	191.7	102.9	78.8	70.8	68.6	66.4	65.2	64.0	63.0	63.0
72.5°	166.1	125.3	84.6	66.6	61.1	60.1	59.6	58.1	57.2	55.9	55.5
75°	122.8	101.9	72.0	56.2	52.5	51.6	52.5	51.3	51.1	50.1	49.6
77.5°	100.9	86.8	62.0	48.2	45.0	43.3	44.8	45.0	45.2	43.8	43.3
80°	82.0	73.5	51.8	39.9	37.0	35.8	36.7	38.7	39.2	37.0	36.0
82.5°	59.1	60.1	41.8	31.1	28.7	27.7	29.7	32.1	32.6	29.4	28.7
85°	49.6	50.1	32.1	22.1	19.7	18.2	21.4	23.8	25.5	22.4	21.6
87.5°	20.7	29.4	18.5	12.4	10.9	9.5	11.4	12.6	15.3	14.1	13.9
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)