

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: P191229

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191229
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-SL4-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA 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: 3991.6 lumens
Efficiency: N/A
Efficacy: 117.4 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): 34
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

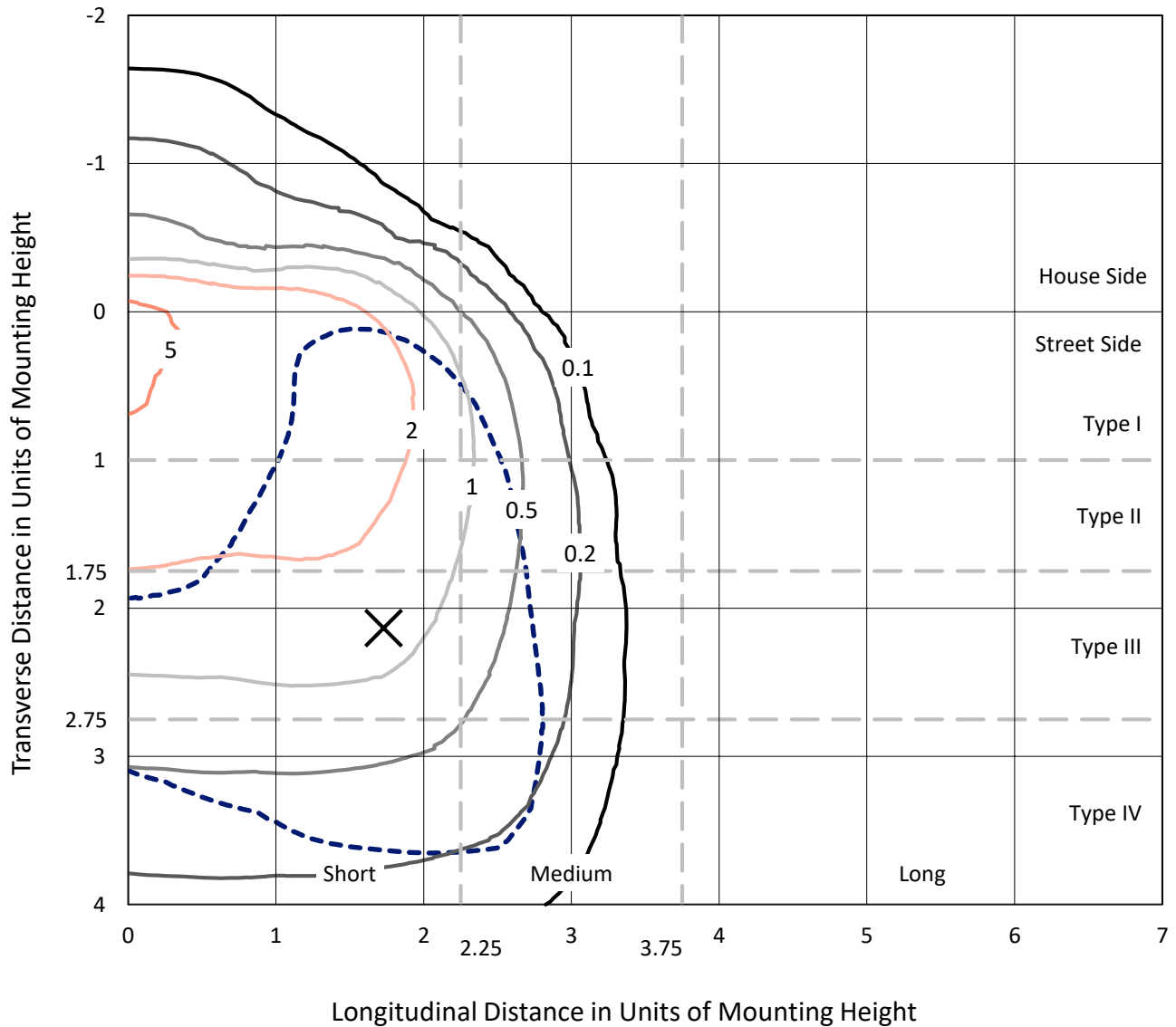


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Iso-Footcandle Lines of Horizontal Illumination

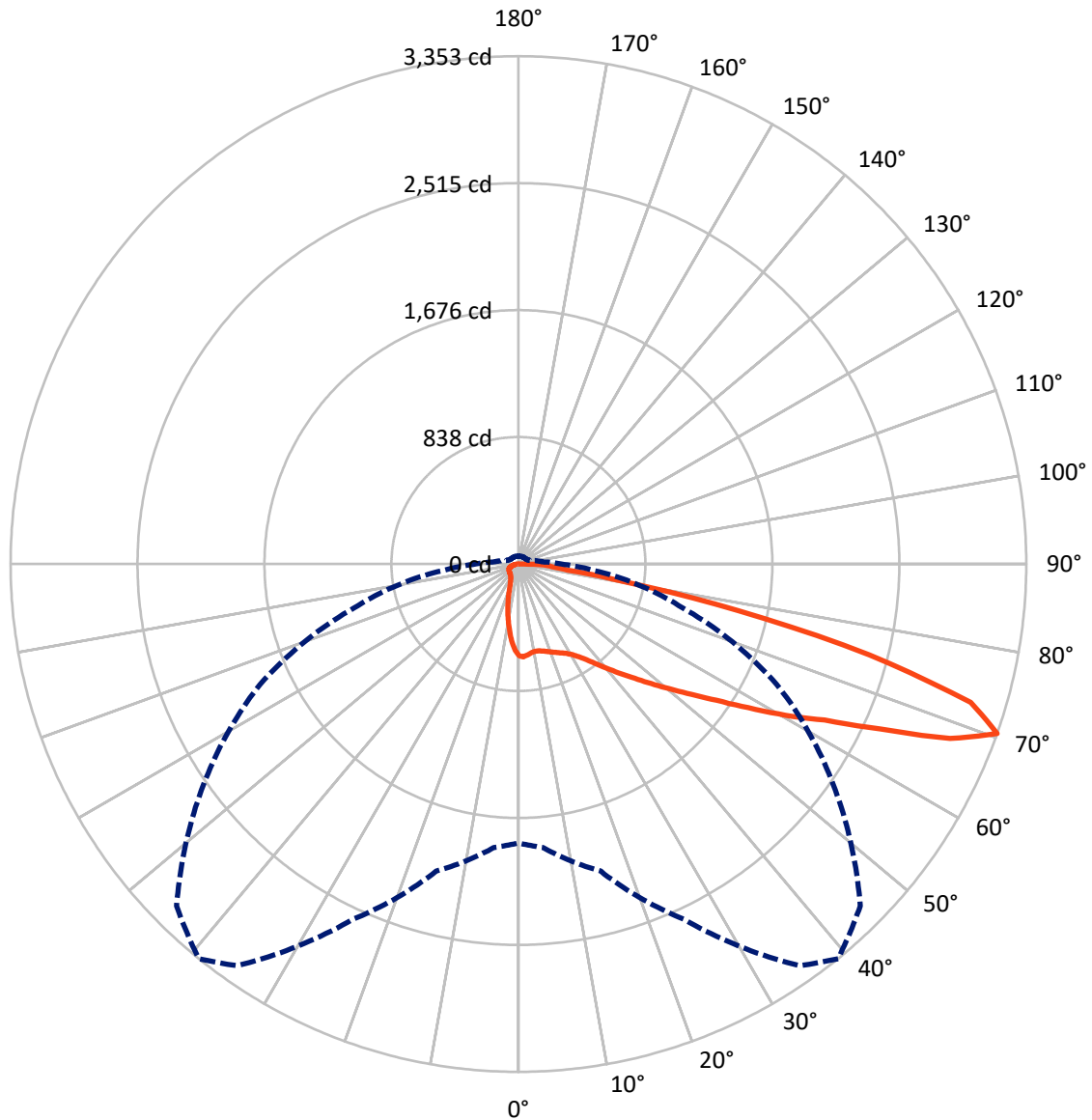
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 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	454.0	0.0	454.0
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	3537.6	0.0	3537.6
	% Fixture	88.6	0.0	88.6
Total	Lumens	3991.6	0.0	3991.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	1.3
10°-20°	130.0	3.3
20°-30°	202.4	5.1
30°-40°	315.3	7.9
40°-50°	529.3	13.3
50°-60°	840.9	21.1
60°-70°	1121.7	28.1
70°-80°	677.3	17.0
80°-90°	122.6	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°	3991.6	100.0
0°-180°	3991.6	100.0



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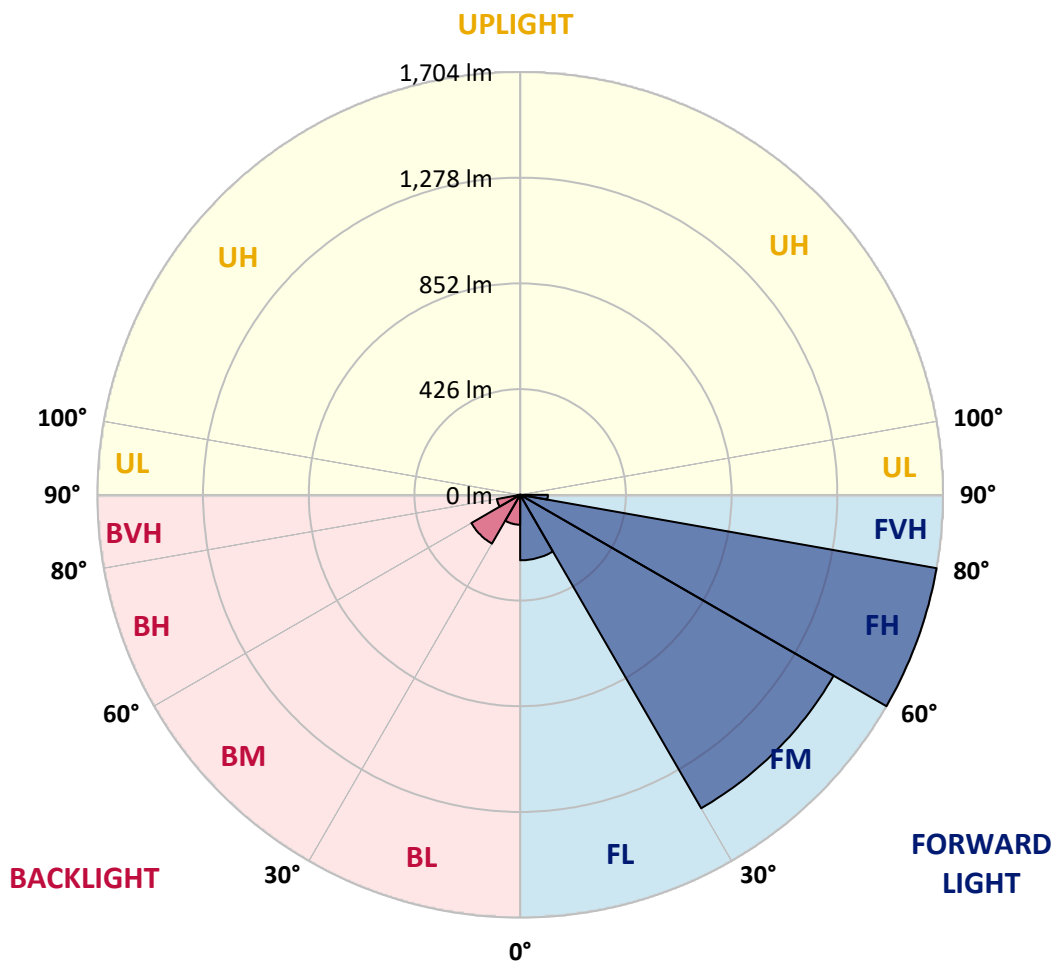
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	264.0	6.6			
FM	(30°-60°)	1458.4	36.5			
FH	(60°-80°)	1703.7	42.7			G1/1800
FVH	(80°-90°)	111.5	2.8			G2/225
BL	(0°-30°)	120.4	3.0	B1/500		
BM	(30°-60°)	227.2	5.7	B1/1000		
BH	(60°-80°)	95.3	2.4	B0/110		G0/110
BVH	(80°-90°)	11.0	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°	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0
2.5°	617.8	617.6	615.9	614.7	613.7	613.3	614.1	611.0	608.5	605.2	601.7
5°	613.1	612.8	610.3	607.8	605.4	604.6	604.4	598.8	595.7	590.8	584.3
7.5°	608.0	607.0	603.5	599.4	595.3	593.2	591.2	584.1	580.4	575.5	568.0
10°	602.7	601.5	598.2	594.2	590.1	587.1	583.7	576.7	572.9	569.3	560.5
12.5°	597.3	596.3	595.5	593.6	590.8	588.1	585.4	579.6	575.5	571.3	561.1
15°	596.5	596.1	597.8	599.0	597.5	595.9	593.0	587.9	583.7	579.4	566.2
17.5°	602.9	602.7	607.4	610.6	609.9	607.0	603.1	597.5	594.0	590.3	573.9
20°	617.1	618.2	623.8	628.1	624.0	620.0	613.7	605.8	604.0	602.3	581.9
22.5°	643.9	645.0	649.0	650.6	640.1	634.2	625.4	615.3	614.1	615.3	591.4
25°	685.8	684.8	684.1	678.0	658.8	649.6	638.4	627.9	628.5	634.0	604.8
27.5°	741.1	735.7	727.1	708.9	678.2	668.1	654.5	644.8	648.6	659.2	624.8
30°	798.6	792.5	772.8	743.0	703.8	692.6	677.4	666.5	676.6	693.3	651.6
32.5°	851.7	850.9	822.1	783.8	739.1	729.4	714.1	701.7	718.2	743.6	691.8
35°	909.8	911.7	877.1	831.0	786.8	776.6	765.7	756.4	778.3	813.1	750.0
37.5°	971.9	975.5	934.8	882.8	841.2	836.9	830.4	826.3	860.3	908.6	831.5
40°	1054.9	1051.2	994.6	941.2	908.0	907.8	905.7	910.6	967.0	1033.2	936.0
42.5°	1143.8	1133.0	1058.1	1003.9	981.2	988.1	992.2	1012.1	1095.5	1184.6	1063.4
45°	1239.5	1215.4	1124.1	1070.3	1062.6	1077.2	1091.0	1134.2	1246.7	1356.8	1203.0
47.5°	1316.0	1292.7	1192.2	1139.9	1156.8	1178.8	1205.4	1273.9	1415.9	1534.8	1340.8
50°	1376.4	1361.1	1261.1	1221.1	1260.5	1294.5	1338.0	1431.9	1592.0	1708.1	1468.4
52.5°	1434.8	1423.4	1330.4	1304.3	1382.2	1429.3	1488.4	1601.6	1772.7	1878.6	1575.9
55°	1487.6	1479.4	1405.1	1408.0	1525.5	1586.8	1661.1	1794.8	1969.5	2030.7	1666.8
57.5°	1547.0	1536.7	1490.4	1538.1	1709.6	1789.1	1885.7	2011.9	2154.2	2165.8	1735.9
60°	1606.9	1598.0	1585.0	1688.3	1943.4	2027.0	2118.5	2222.4	2341.5	2270.7	1731.9
62.5°	1658.8	1659.8	1682.8	1845.9	2172.2	2269.1	2380.7	2483.4	2510.9	2289.0	1603.9
65°	1746.9	1763.0	1831.3	2069.2	2494.6	2624.0	2761.0	2744.6	2557.9	2118.3	1329.2
67.5°	1851.6	1879.9	2018.5	2366.7	2901.8	3073.8	3126.8	2803.6	2370.2	1721.9	947.6
70°	1841.1	1879.9	2099.2	2588.5	3237.5	3352.8	3192.0	2537.3	1882.0	1124.9	503.3
72.5°	1634.9	1690.3	1934.6	2486.8	3131.8	3121.6	2771.2	1891.6	1118.2	451.7	196.6
75°	1246.1	1302.1	1512.3	1964.7	2475.2	2390.0	1966.3	1044.9	424.3	179.4	124.0
77.5°	716.8	760.3	922.6	1204.8	1570.3	1482.9	1094.5	464.7	206.6	125.0	96.8
80°	400.2	424.3	522.9	611.2	769.6	705.4	489.7	288.8	154.3	90.7	74.7
82.5°	316.4	337.9	422.9	385.6	351.5	324.3	281.3	257.2	123.2	57.2	44.6
85°	276.4	296.9	358.0	303.6	240.1	220.2	228.5	253.1	95.7	34.5	38.2
87.5°	256.1	283.5	319.1	233.9	186.9	165.6	210.8	277.4	30.9	21.5	15.4
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°	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0
2.5°	598.6	595.5	590.1	585.4	578.2	574.3	570.1	567.0	564.6	562.5	565.8
5°	580.2	574.1	562.9	551.0	536.7	525.6	516.3	507.6	501.5	497.4	500.2
7.5°	562.7	552.8	535.3	513.6	489.3	468.6	451.5	436.5	426.2	419.5	422.1
10°	552.8	540.4	513.4	479.4	443.4	411.1	384.3	361.2	345.2	336.0	337.5
12.5°	550.3	534.4	497.1	450.1	401.0	356.2	318.4	286.3	263.8	252.1	252.5
15°	552.2	531.7	481.6	422.1	360.0	303.4	256.4	217.4	191.2	177.8	177.6
17.5°	555.3	529.7	465.3	391.9	318.4	252.7	200.1	161.9	138.8	128.1	127.3
20°	558.5	526.4	447.0	359.2	275.2	205.6	156.7	126.8	112.2	106.4	106.0
22.5°	563.1	523.5	428.2	324.7	232.8	167.5	128.9	108.7	101.1	98.0	97.6
25°	570.7	522.2	408.2	288.8	194.7	140.0	112.2	99.8	95.3	93.4	93.2
27.5°	583.3	524.2	389.2	253.9	163.6	121.5	102.9	95.3	92.2	90.3	90.1
30°	599.4	530.5	369.4	220.8	139.4	108.9	97.2	92.4	89.7	87.9	87.9
32.5°	626.5	541.0	348.4	192.2	122.1	100.2	93.0	89.7	87.5	86.0	85.8
35°	666.2	560.9	329.0	168.5	109.8	94.0	89.3	86.8	85.2	84.4	84.4
37.5°	724.0	592.4	311.7	151.4	102.3	89.7	85.8	84.0	83.0	83.0	83.0
40°	801.8	635.8	297.7	140.0	98.0	86.6	83.2	81.8	81.2	81.4	81.4
42.5°	897.8	692.2	288.4	132.2	96.0	84.8	81.4	80.2	79.6	79.4	79.6
45°	1007.2	756.4	287.3	126.2	94.0	83.6	80.2	79.0	77.7	76.9	76.9
47.5°	1113.6	821.5	295.7	124.2	91.8	82.1	79.2	77.9	76.1	74.3	74.3
50°	1207.5	876.9	306.9	125.0	90.9	80.2	77.5	76.9	74.1	72.0	71.8
52.5°	1282.2	919.5	316.0	127.5	91.8	78.8	75.5	75.7	72.6	70.4	70.2
55°	1342.0	947.6	313.5	129.9	93.6	77.9	73.7	74.1	71.6	69.4	69.4
57.5°	1368.2	937.2	286.5	127.9	94.9	78.2	72.2	73.9	71.8	69.8	69.8
60°	1312.0	845.3	236.0	119.0	93.2	77.5	71.6	74.7	74.5	72.4	72.2
62.5°	1141.9	680.7	183.0	105.8	86.8	74.5	70.0	74.5	76.7	76.1	75.9
65°	880.1	484.8	139.8	91.6	78.4	69.4	65.8	69.8	72.8	73.7	73.4
67.5°	571.3	297.1	107.7	78.2	68.8	63.5	60.3	62.1	62.7	62.7	62.3
70°	280.9	159.9	85.8	65.8	59.0	57.2	55.4	54.4	53.4	52.6	52.6
72.5°	138.6	104.5	70.6	55.6	50.9	50.1	49.7	48.5	47.7	46.6	46.2
75°	102.5	85.0	60.0	46.9	43.9	43.1	43.9	42.9	42.7	41.8	41.4
77.5°	84.2	72.4	51.8	40.2	37.5	36.1	37.3	37.5	37.7	36.5	36.1
80°	68.4	61.3	43.3	33.2	30.9	29.9	30.7	32.2	32.6	30.9	30.1
82.5°	49.3	50.1	34.9	26.0	23.9	23.1	24.8	26.8	27.2	24.6	23.9
85°	41.4	41.8	26.8	18.5	16.5	15.2	17.9	19.8	21.3	18.7	18.1
87.5°	17.3	24.6	15.4	10.3	9.1	7.9	9.5	10.5	12.8	11.8	11.6
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)