

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: P323955

Luminaire Tested: **GLEON-SA1B-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1B-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3570 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

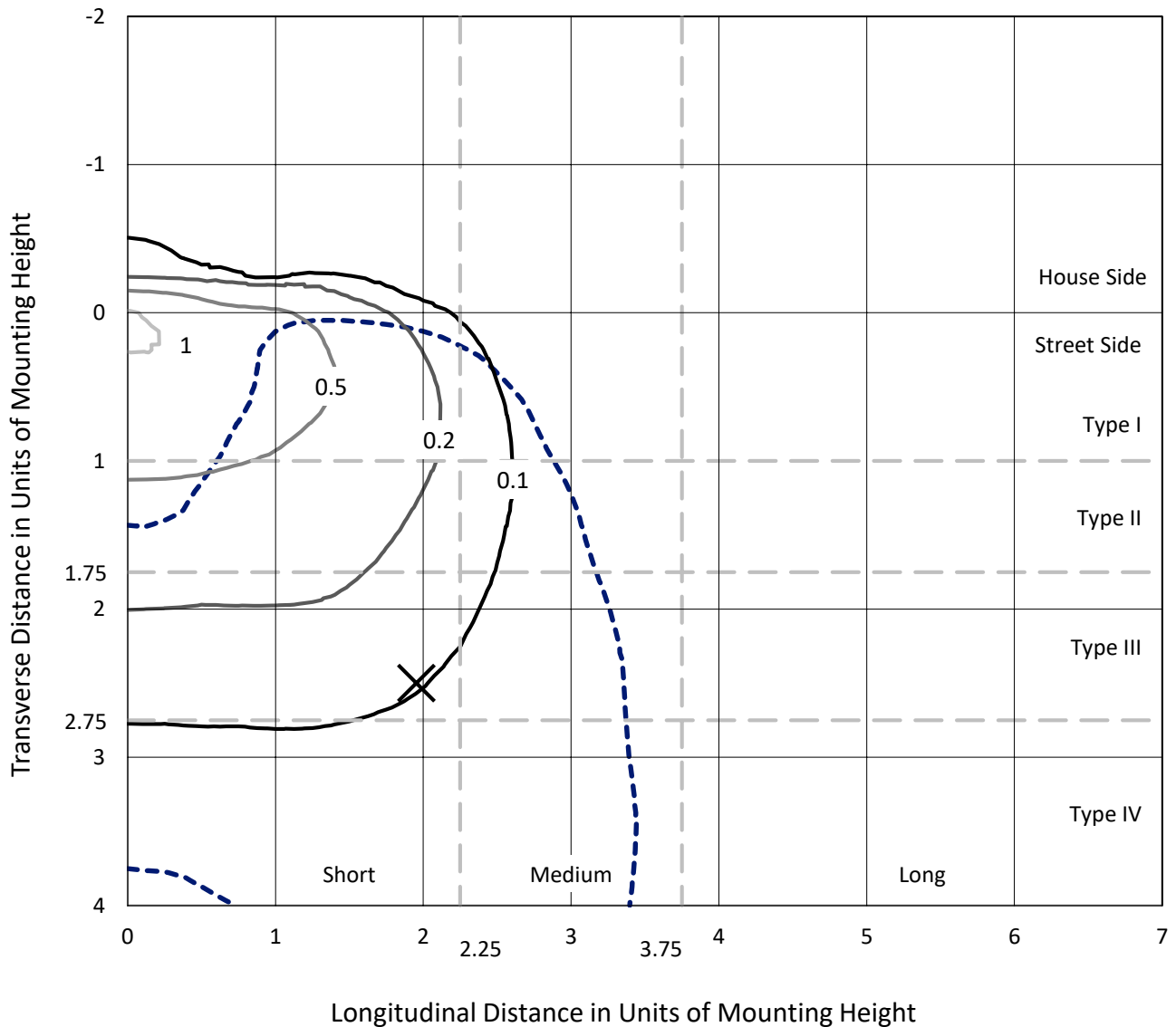
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

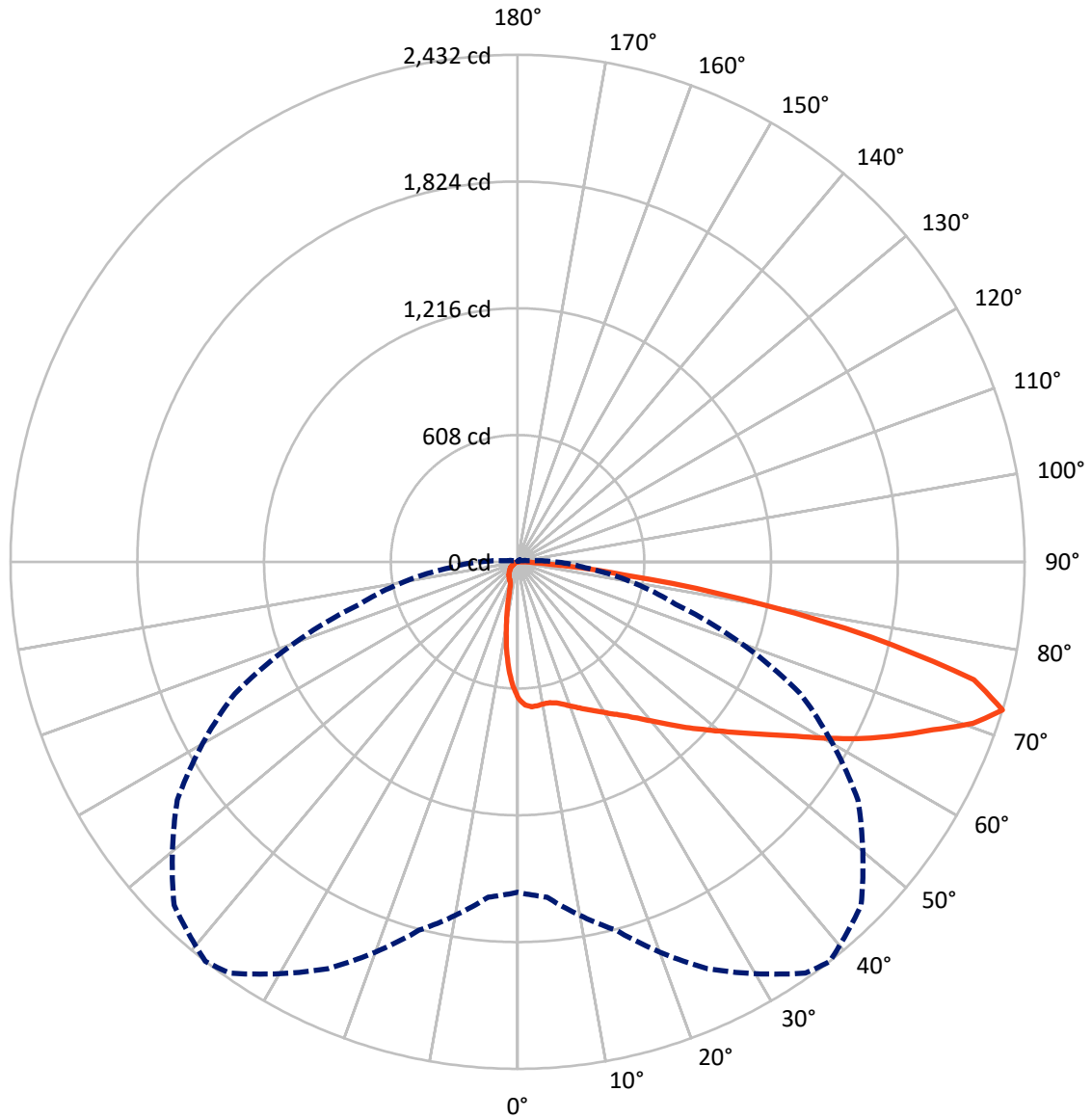
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	300.4	0.0	300.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3269.6	0.0	3269.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	3570.0	0.0	3570.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	1.6
10°-20°	136.8	3.8
20°-30°	217.6	6.1
30°-40°	327.1	9.2
40°-50°	499.0	14.0
50°-60°	705.3	19.8
60°-70°	884.7	24.8
70°-80°	661.5	18.5
80°-90°	82.0	2.3
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°	3570.0	100.0
0°-180°	3570.0	100.0

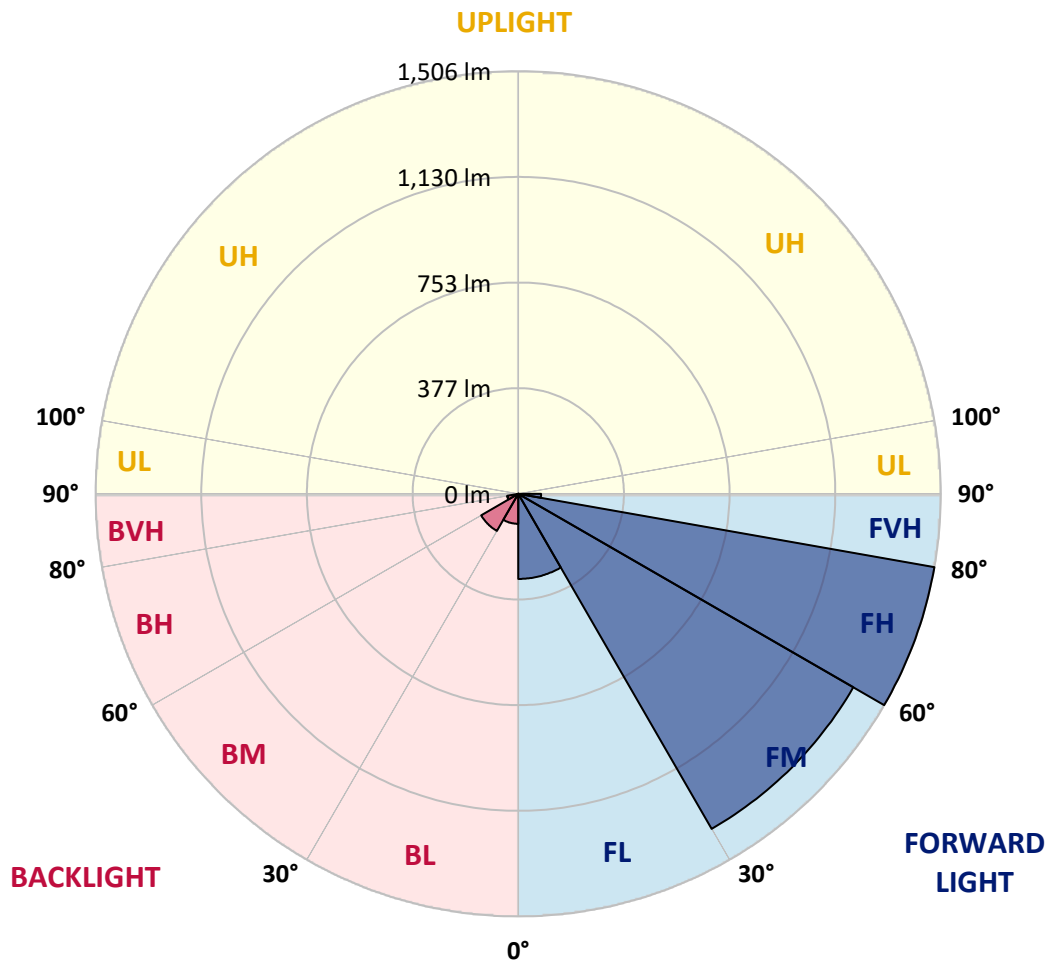


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	303.4	8.5			
FM (30°-60°)	1378.9	38.6			
FH (60°-80°)	1506.1	42.2			G1/1800
FVH (80°-90°)	81.3	2.3			G1/100
BL (0°-30°)	107.0	3.0	B0/110		
BM (30°-60°)	152.6	4.3	B0/220		
BH (60°-80°)	40.1	1.1	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type IV Short





REPORT NUMBER: P323955

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	656.5	656.5	656.5	656.5	656.5	656.5	656.5	656.5	656.5	656.5	656.5
2.5°	696.8	697.0	695.4	692.7	689.3	687.5	684.5	679.8	674.7	665.7	655.9
5°	711.1	711.1	709.0	705.4	700.0	698.3	692.7	685.1	674.7	660.1	643.6
7.5°	709.6	709.9	707.1	703.4	697.9	696.4	689.6	681.1	668.2	650.4	629.4
10°	701.9	702.6	700.4	698.6	693.6	691.9	685.6	677.1	664.2	645.2	621.1
12.5°	694.0	694.8	695.5	697.1	694.0	693.4	688.4	681.3	669.0	649.2	622.0
15°	689.0	690.5	695.8	702.2	702.9	702.3	699.1	692.4	679.9	659.5	628.3
17.5°	689.0	691.4	702.5	714.6	718.9	719.4	716.6	707.2	692.4	670.4	634.3
20°	694.8	698.0	715.4	732.6	739.7	739.7	734.2	721.2	703.8	680.4	638.3
22.5°	709.6	713.9	735.7	755.6	763.1	761.5	754.1	735.1	715.7	691.6	643.3
25°	738.8	742.1	764.7	784.8	789.4	785.6	776.3	752.0	730.8	706.9	652.5
27.5°	776.5	776.9	800.3	817.2	814.4	811.9	800.2	773.2	752.6	728.7	668.4
30°	817.8	817.8	838.4	851.3	842.7	840.7	828.9	798.8	780.5	758.4	690.9
32.5°	857.9	859.6	876.4	884.5	874.9	872.8	861.4	831.3	817.5	803.6	726.0
35°	896.6	897.9	913.7	918.2	909.0	909.6	901.4	875.9	870.8	869.0	779.0
37.5°	934.1	934.4	950.5	953.3	948.7	953.8	954.5	932.0	941.6	956.0	853.6
40°	968.3	968.6	984.6	991.9	999.7	1006.3	1012.0	1000.0	1031.9	1065.3	942.4
42.5°	995.7	998.9	1019.2	1033.0	1053.7	1066.2	1081.9	1081.3	1139.4	1189.5	1049.7
45°	1019.9	1025.2	1053.6	1077.7	1113.3	1133.2	1157.8	1177.1	1260.4	1327.8	1158.4
47.5°	1051.8	1056.8	1089.1	1128.7	1176.2	1202.3	1243.0	1284.7	1393.4	1463.7	1264.5
50°	1096.7	1094.5	1126.4	1183.1	1244.1	1278.3	1336.4	1398.9	1525.3	1582.0	1327.0
52.5°	1144.6	1143.7	1167.3	1242.3	1324.1	1364.2	1441.0	1516.9	1651.5	1663.5	1355.6
55°	1203.9	1197.5	1217.4	1309.8	1419.2	1462.2	1552.6	1633.7	1752.0	1709.5	1370.0
57.5°	1266.0	1255.5	1274.5	1384.9	1526.4	1577.2	1676.3	1747.6	1818.9	1740.9	1369.8
60°	1330.2	1317.8	1340.3	1478.9	1659.5	1718.4	1810.3	1824.5	1881.3	1756.8	1359.7
62.5°	1383.9	1376.5	1410.0	1579.5	1808.2	1866.0	1911.6	1894.5	1934.0	1769.1	1336.2
65°	1440.7	1441.1	1495.2	1696.7	1966.3	2005.3	2009.1	1985.2	1978.0	1766.6	1256.4
67.5°	1517.5	1524.6	1614.9	1856.0	2120.0	2150.1	2149.8	2083.5	2010.2	1666.3	1079.5
70°	1598.7	1615.5	1752.8	2038.2	2287.9	2318.4	2302.7	2146.1	1892.7	1347.4	764.0
72.5°	1585.1	1614.1	1829.4	2153.1	2408.4	2431.7	2329.5	1992.4	1496.0	783.1	325.3
75°	1222.9	1256.5	1677.5	2039.2	2281.9	2261.0	2001.6	1550.4	817.5	218.5	73.2
77.5°	646.0	663.9	1108.1	1553.5	1779.3	1735.6	1410.0	860.1	249.2	54.1	32.9
80°	338.3	342.5	482.9	881.4	1098.2	1098.5	835.6	377.8	102.7	27.7	22.1
82.5°	181.2	184.7	255.2	407.3	575.4	521.6	320.0	207.9	59.8	15.7	21.2
85°	43.6	44.3	144.7	186.1	226.3	161.6	95.0	174.5	16.2	9.2	17.2
87.5°	16.8	17.1	53.7	80.5	57.7	37.4	44.5	65.1	2.1	3.6	2.7
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°	656.5	656.5	656.5	656.5	656.5	656.5	656.5	656.5	656.5	656.5	656.5
2.5°	650.0	646.1	636.6	624.6	614.0	606.2	594.7	587.1	582.1	581.9	580.0
5°	633.5	625.7	605.2	580.9	558.8	538.9	515.5	497.0	483.2	481.0	476.2
7.5°	615.9	603.0	571.6	533.6	496.5	458.9	415.1	388.0	364.7	353.6	352.4
10°	605.1	587.0	542.3	487.5	429.4	368.1	310.9	271.3	242.7	234.6	228.5
12.5°	602.8	579.0	519.8	444.2	361.2	280.2	216.9	174.8	152.0	144.7	142.8
15°	605.1	575.3	500.8	401.3	292.1	198.8	145.6	121.1	112.5	110.5	110.3
17.5°	606.4	570.8	479.3	353.8	225.1	142.0	111.5	104.4	103.0	102.9	103.2
20°	606.2	564.0	453.7	300.7	167.4	111.6	100.8	99.3	99.0	99.2	99.0
22.5°	605.2	556.0	425.5	246.0	126.5	99.8	96.2	95.3	95.2	95.2	95.2
25°	607.1	549.6	394.5	193.6	104.2	94.3	92.1	91.3	91.2	91.2	90.9
27.5°	614.1	546.1	360.6	149.0	94.1	89.4	87.6	87.5	87.0	86.9	87.2
30°	625.4	546.1	323.4	115.9	88.1	84.4	83.0	82.7	82.6	82.4	82.6
32.5°	645.2	550.2	282.7	96.4	82.3	78.7	77.8	78.3	77.8	77.8	77.8
35°	681.1	562.7	240.2	84.1	76.2	73.2	72.4	72.9	72.6	72.6	72.5
37.5°	733.5	585.8	197.3	76.7	70.9	67.8	66.6	67.5	67.2	67.2	67.0
40°	797.2	619.4	156.6	71.0	65.7	62.4	61.4	61.8	61.1	61.1	61.4
42.5°	875.9	662.1	121.0	65.5	60.5	57.4	56.8	56.3	55.0	54.3	54.4
45°	963.4	706.6	94.3	60.2	55.6	53.1	52.2	51.0	48.8	47.3	47.4
47.5°	1041.6	740.9	76.7	55.0	51.2	49.2	47.9	45.7	42.4	40.6	40.8
50°	1082.6	746.1	65.2	49.8	47.0	45.1	43.1	39.7	35.9	34.0	33.8
52.5°	1093.1	721.7	56.8	45.1	42.8	40.6	38.1	33.5	29.2	27.1	26.8
55°	1097.0	684.7	49.2	40.6	38.4	35.9	32.6	27.4	23.4	21.3	21.2
57.5°	1084.3	629.4	43.3	36.6	34.0	30.8	26.8	21.9	18.1	16.5	16.5
60°	1055.9	554.5	38.7	32.3	29.4	25.8	21.6	17.1	13.5	12.2	12.2
62.5°	999.4	457.5	34.4	27.9	25.1	21.3	17.5	12.9	9.5	8.7	8.9
65°	892.8	347.1	30.1	23.9	21.3	17.6	13.6	9.2	6.4	6.4	6.7
67.5°	728.1	241.1	25.6	20.3	18.4	14.4	10.4	6.4	4.4	5.0	5.6
70°	482.0	135.2	21.9	16.8	15.7	11.4	7.7	4.3	3.6	4.7	5.8
72.5°	181.9	52.6	18.4	13.5	13.6	8.7	5.5	3.3	3.3	5.2	6.8
75°	50.7	25.8	13.2	9.9	10.7	6.4	4.0	2.8	3.1	5.9	8.0
77.5°	29.8	19.0	8.6	5.8	7.3	4.4	2.7	2.2	2.7	5.0	7.7
80°	24.0	10.1	5.0	3.0	4.0	2.5	1.8	1.3	0.7	1.9	4.0
82.5°	24.0	6.1	2.4	2.1	2.1	1.3	0.9	0.6	0.1	0.0	1.0
85°	16.2	2.5	1.5	1.3	1.0	0.4	0.3	0.1	0.0	0.0	0.0
87.5°	2.7	1.0	0.6	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
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)