

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: P382741

Luminaire Tested: **GLEON-SA1B-735-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382741  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1B-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4563.6 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

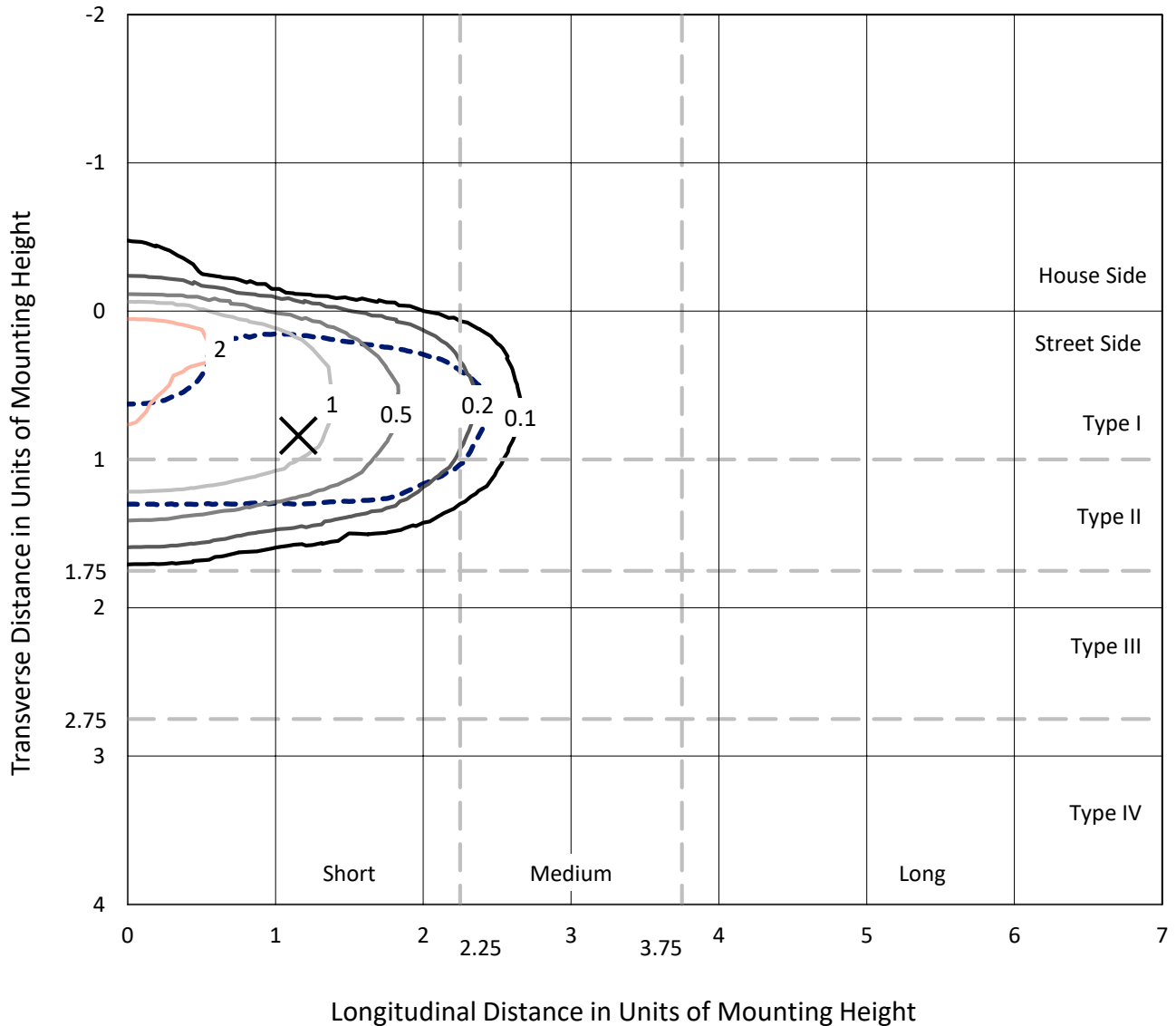
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

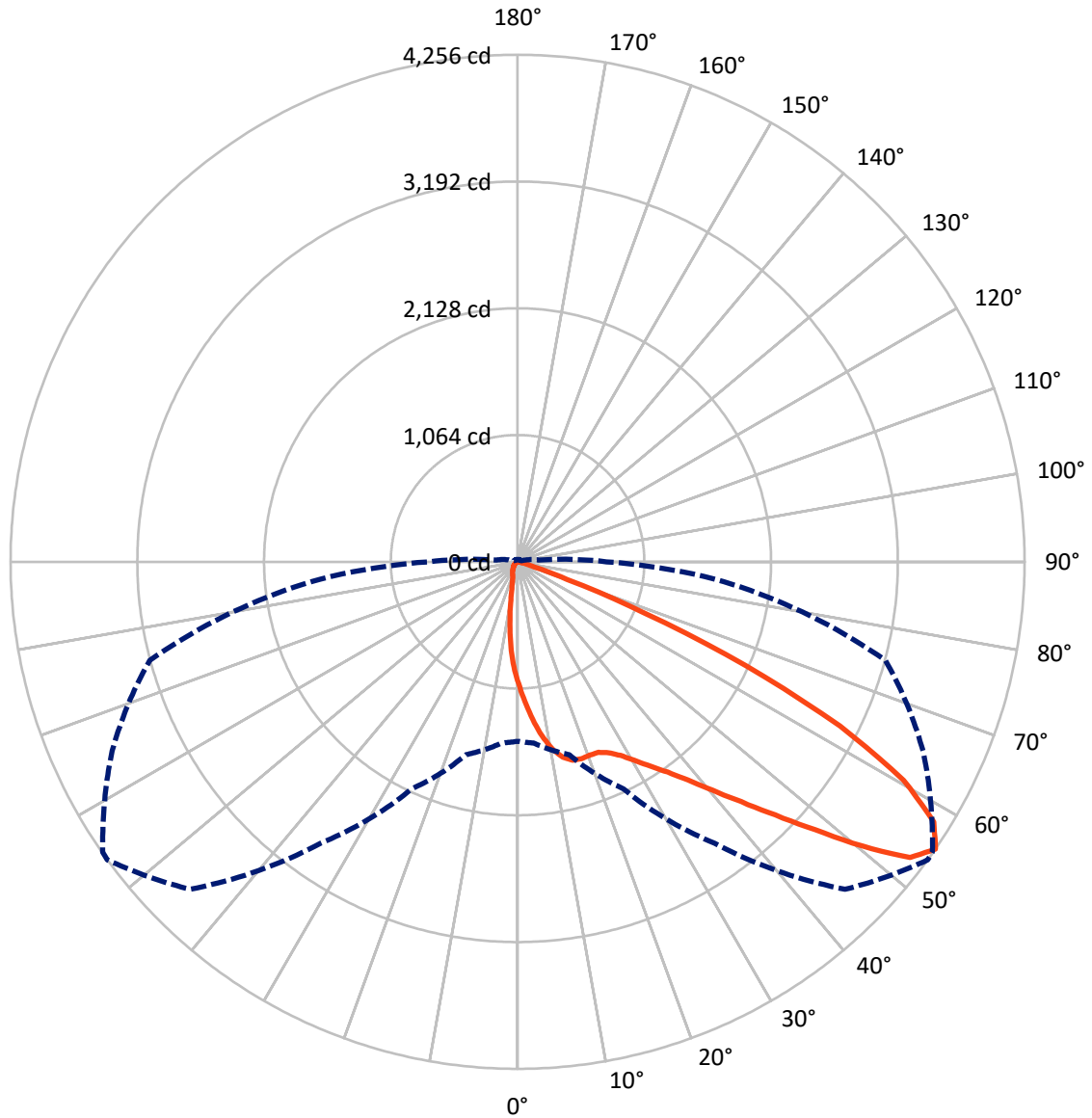
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	227.7	0.0	227.7
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	4336.0	0.0	4336.0
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	4563.6	0.0	4563.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.1	2.1
10°-20°	258.1	5.7
20°-30°	440.7	9.7
30°-40°	707.3	15.5
40°-50°	1130.2	24.8
50°-60°	1211.1	26.5
60°-70°	621.8	13.6
70°-80°	94.2	2.1
80°-90°	6.1	0.1
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°	4563.6	100.0
0°-180°	4563.6	100.0

**Coefficient of Utilization**

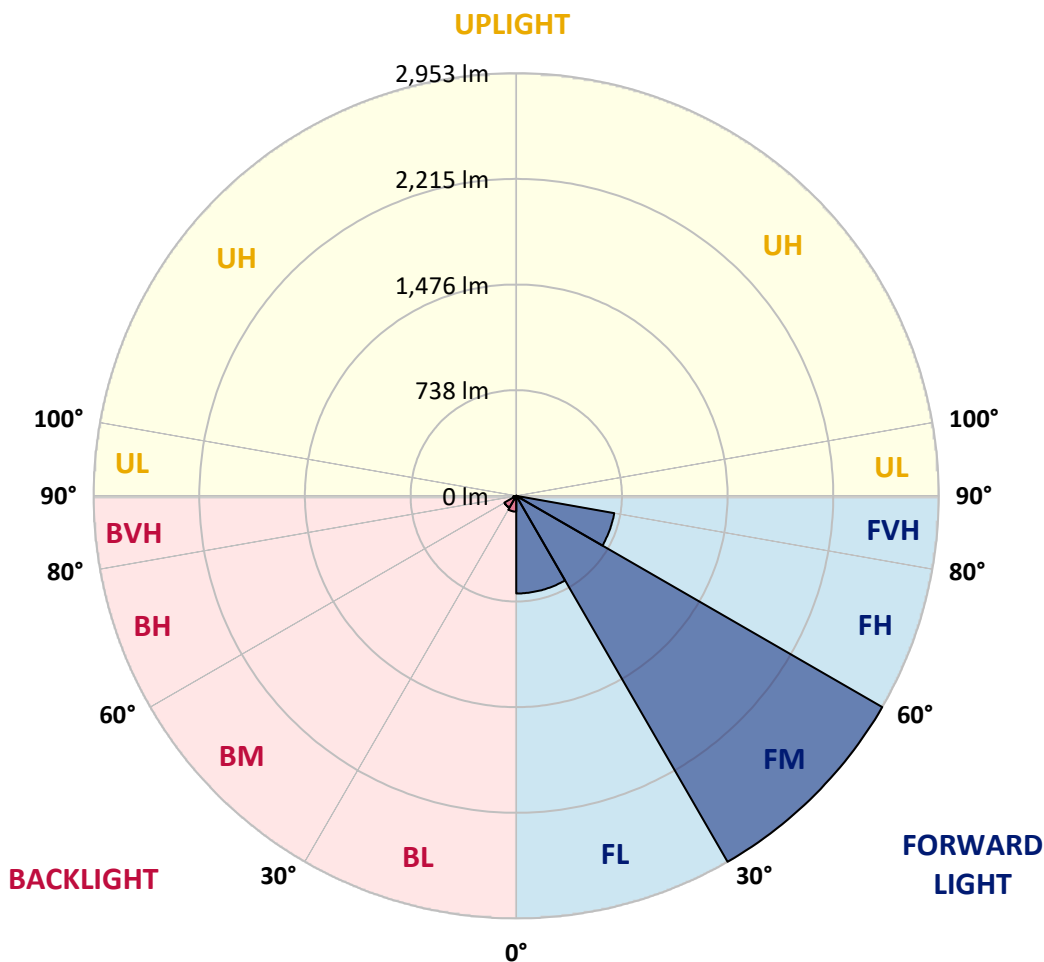


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	682.2	14.9			
FM (30°-60°)	2952.9	64.7			
FH (60°-80°)	695.0	15.2			G1/1800
FVH (80°-90°)	5.9	0.1			G0/10
BL (0°-30°)	110.8	2.4	B1/500		
BM (30°-60°)	95.7	2.1	B0/220		
BH (60°-80°)	21.0	0.5	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			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°	54°	55°	65°	75°	85°
0°	1022.1	1022.1	1022.1	1022.1	1022.1	1022.1	1022.1	1022.1	1022.1	1022.1	1022.1
2.5°	1282.6	1263.5	1264.1	1255.4	1223.7	1198.9	1173.0	1166.9	1126.7	1084.5	1044.0
5°	1504.4	1490.4	1487.0	1470.3	1426.1	1379.3	1329.3	1317.7	1239.1	1152.7	1067.8
7.5°	1618.3	1618.5	1615.7	1609.6	1582.0	1536.7	1475.6	1463.4	1356.3	1226.8	1092.6
10°	1585.1	1592.7	1608.0	1628.3	1649.4	1643.7	1597.8	1586.7	1470.4	1305.3	1120.2
12.5°	1507.9	1508.8	1526.1	1559.3	1620.1	1682.3	1683.1	1679.4	1579.4	1387.3	1150.6
15°	1469.4	1473.2	1479.5	1501.0	1558.6	1658.2	1729.6	1734.9	1679.4	1474.4	1182.9
17.5°	1494.7	1500.0	1494.7	1497.3	1530.5	1620.2	1737.7	1751.3	1766.7	1560.5	1213.4
20°	1563.0	1568.0	1558.6	1548.0	1554.6	1609.2	1731.9	1750.3	1835.1	1637.0	1239.1
22.5°	1655.3	1657.3	1642.9	1625.7	1621.0	1646.6	1736.7	1755.6	1889.8	1706.1	1255.3
25°	1756.8	1758.6	1740.6	1720.9	1709.7	1720.1	1775.5	1789.7	1938.1	1772.2	1264.5
27.5°	1867.4	1869.0	1846.5	1822.2	1809.3	1809.6	1839.6	1854.7	1989.6	1847.4	1271.9
30°	1984.2	1983.5	1962.8	1929.0	1912.5	1912.1	1931.8	1947.2	2064.0	1944.0	1282.2
32.5°	2115.5	2114.0	2084.5	2042.8	2024.1	2026.8	2044.4	2053.2	2156.5	2046.9	1300.5
35°	2288.3	2283.8	2239.4	2187.6	2153.2	2152.2	2167.0	2174.0	2274.4	2171.4	1331.1
37.5°	2512.7	2508.5	2448.4	2373.1	2324.6	2306.5	2324.0	2333.1	2442.4	2331.3	1380.2
40°	2733.7	2729.6	2693.9	2624.9	2550.3	2506.7	2520.5	2530.2	2652.4	2525.2	1442.0
42.5°	2886.3	2889.8	2902.2	2908.0	2838.0	2746.6	2752.8	2762.9	2872.9	2732.6	1512.8
45°	2926.5	2934.2	3004.3	3142.1	3168.3	3096.9	3031.0	3036.5	3096.9	2939.9	1583.5
47.5°	2805.6	2819.9	2955.2	3211.5	3433.4	3483.8	3358.9	3351.6	3312.0	3107.6	1633.8
50°	2531.1	2544.1	2719.6	3098.5	3513.8	3853.2	3751.9	3730.4	3500.6	3208.0	1651.5
52.5°	2133.8	2149.5	2292.1	2743.0	3362.2	4018.0	4124.0	4106.1	3638.9	3215.8	1654.5
55°	1506.9	1526.1	1676.8	2102.3	2881.9	3886.9	4255.8	4250.5	3753.9	3194.9	1660.9
57.5°	846.9	860.7	1023.2	1347.7	2110.8	3385.5	4118.1	4153.3	3823.3	3158.7	1670.3
60°	376.1	379.8	463.9	670.9	1235.7	2587.3	3723.7	3783.2	3763.7	3110.2	1686.3
62.5°	208.5	205.4	205.4	278.9	537.0	1601.7	3036.5	3134.8	3509.7	3052.9	1687.0
65°	163.4	160.4	151.9	153.1	204.6	710.9	2102.7	2277.5	3027.2	2884.7	1630.3
67.5°	138.5	136.0	127.5	124.2	127.2	234.6	1155.3	1336.8	2297.0	2447.7	1412.1
70°	117.1	115.3	110.9	106.8	99.3	115.9	442.0	565.4	1415.5	1628.3	964.0
72.5°	94.2	93.4	95.0	91.5	82.3	77.2	151.2	183.0	635.8	726.6	397.1
75°	81.2	80.8	81.6	78.1	67.8	53.8	76.9	83.9	179.3	177.7	80.4
77.5°	52.8	53.4	67.6	66.0	58.3	35.9	39.8	42.9	54.4	40.8	24.4
80°	33.7	33.3	34.3	54.8	52.4	27.4	19.9	20.9	26.2	20.1	11.8
82.5°	20.5	20.1	22.5	25.6	26.4	19.1	12.2	12.4	16.4	13.0	6.3
85°	1.8	2.3	13.6	12.6	9.0	5.9	5.9	6.3	8.7	7.7	3.5
87.5°	0.0	0.0	2.3	3.5	2.0	2.1	2.1	2.3	3.4	3.4	1.8
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°	1022.1	1022.1	1022.1	1022.1	1022.1	1022.1	1022.1	1022.1	1022.1	1022.1	1022.1
2.5°	1022.8	1002.3	961.0	921.2	887.5	855.0	817.9	781.2	764.1	757.2	750.1
5°	1024.6	982.5	897.1	811.2	722.1	641.9	573.6	503.3	468.3	452.9	445.8
7.5°	1027.0	962.8	824.8	680.5	537.0	428.2	333.3	272.2	245.7	241.6	231.4
10°	1027.4	938.9	740.9	536.3	360.0	258.2	198.7	167.1	155.5	153.5	150.2
12.5°	1028.1	910.7	647.6	397.1	240.1	172.6	143.6	133.2	130.0	129.9	129.9
15°	1030.6	881.2	550.8	286.2	172.4	136.8	126.1	122.0	120.8	121.4	121.2
17.5°	1030.6	846.3	455.9	213.2	139.4	123.0	117.1	114.3	113.9	114.5	114.7
20°	1023.0	803.9	368.7	165.9	123.6	114.1	108.8	106.2	105.3	105.6	105.8
22.5°	1005.1	751.9	297.8	137.4	113.1	106.0	100.3	96.4	94.8	95.0	95.0
25°	977.1	690.2	233.0	118.9	104.6	97.3	90.6	86.2	85.1	85.0	85.3
27.5°	941.2	622.0	185.5	104.6	94.6	87.7	81.0	77.2	76.5	76.7	76.9
30°	906.0	551.2	146.3	92.6	83.4	76.9	71.7	70.0	70.0	70.5	70.8
32.5°	873.7	483.3	115.7	82.2	73.3	67.4	64.5	64.3	65.2	65.7	65.9
35°	845.8	420.4	95.8	74.1	65.4	60.3	59.3	60.1	61.3	62.0	62.3
37.5°	826.2	364.2	83.7	67.4	59.3	55.1	55.0	56.5	58.1	59.9	60.3
40°	817.9	316.7	75.5	61.5	54.4	51.2	50.7	52.8	55.8	58.3	58.7
42.5°	811.0	277.9	68.4	55.8	50.5	45.9	45.7	48.4	52.1	54.6	55.1
45°	805.0	246.8	61.9	49.7	45.4	39.4	40.0	43.6	46.3	49.1	49.7
47.5°	792.8	221.1	54.8	43.1	37.4	33.7	34.8	38.0	40.2	44.3	44.9
50°	770.9	200.3	47.5	35.3	30.6	29.2	30.9	33.1	35.9	39.4	39.8
52.5°	756.2	184.4	41.2	29.5	25.2	25.6	27.4	28.2	29.7	31.1	30.7
55°	747.8	175.8	36.1	25.6	21.5	22.6	23.1	22.1	21.2	19.9	19.3
57.5°	746.7	168.0	32.1	22.3	18.9	19.5	18.2	14.8	12.0	10.4	10.1
60°	745.1	158.3	29.0	18.7	16.8	15.9	13.0	8.1	5.7	5.3	5.3
62.5°	728.0	143.3	26.6	15.7	14.2	12.0	7.5	3.7	3.2	3.4	3.4
65°	673.4	122.4	24.2	12.9	11.3	8.7	3.7	2.1	1.2	1.4	1.4
67.5°	572.5	97.5	21.7	9.9	8.5	5.5	2.1	1.0	0.0	0.0	0.0
70°	383.3	60.6	18.4	6.9	5.5	3.4	1.6	0.2	0.0	0.0	0.0
72.5°	147.0	32.7	14.8	4.1	3.5	2.3	1.0	0.0	0.0	0.0	0.0
75°	33.1	21.5	10.2	3.0	2.6	1.6	0.4	0.0	0.0	0.0	0.0
77.5°	12.6	15.6	5.9	2.0	1.8	1.0	0.0	0.0	0.0	0.0	0.0
80°	6.1	9.2	2.8	1.2	1.0	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	3.2	3.5	1.2	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.8	1.8	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.6	0.2	0.2	0.0	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)