

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: P382832

Luminaire Tested: **GLEON-SA2A-735-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382832  
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-SA2A-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH 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: 7208.3 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

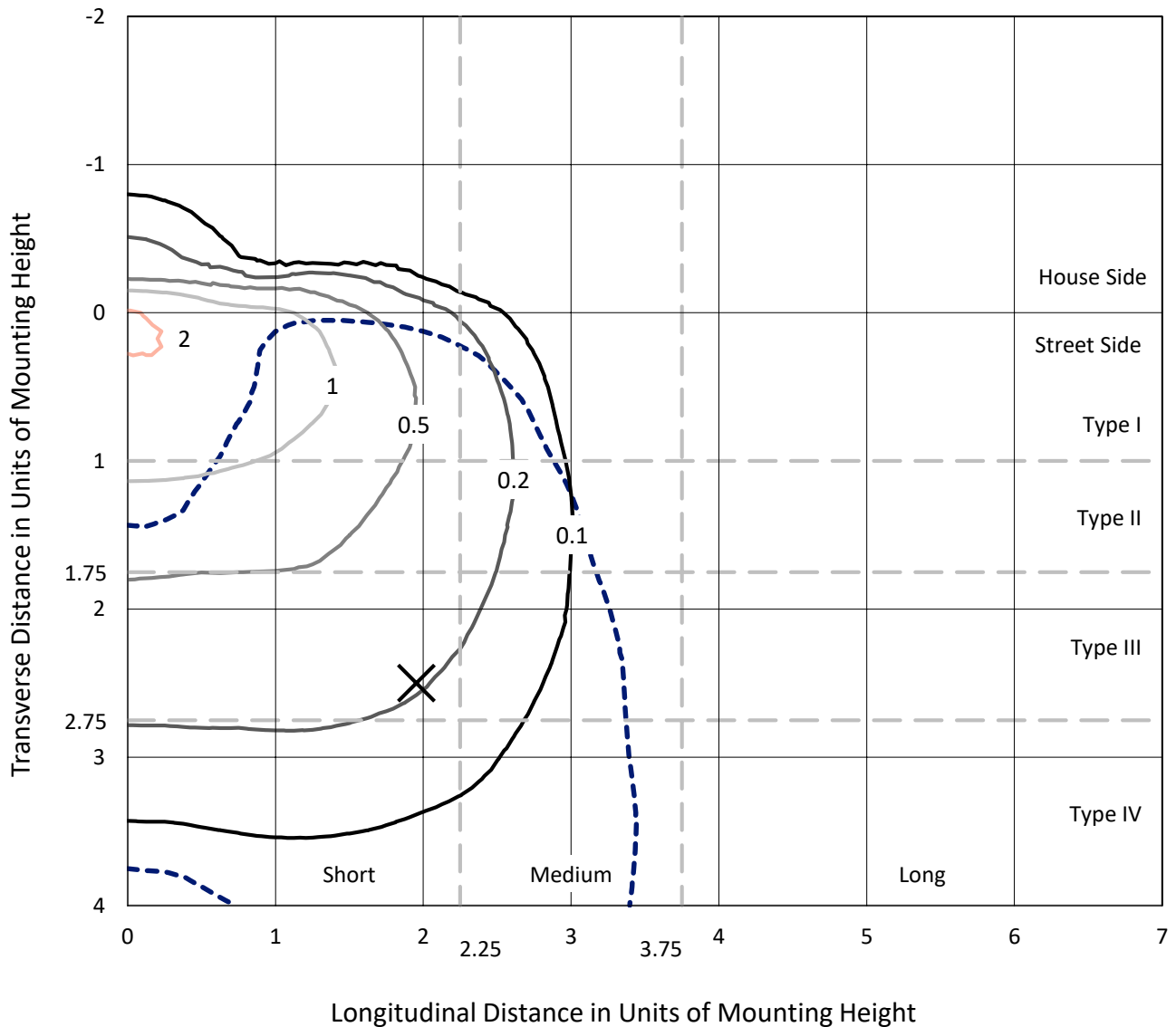
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

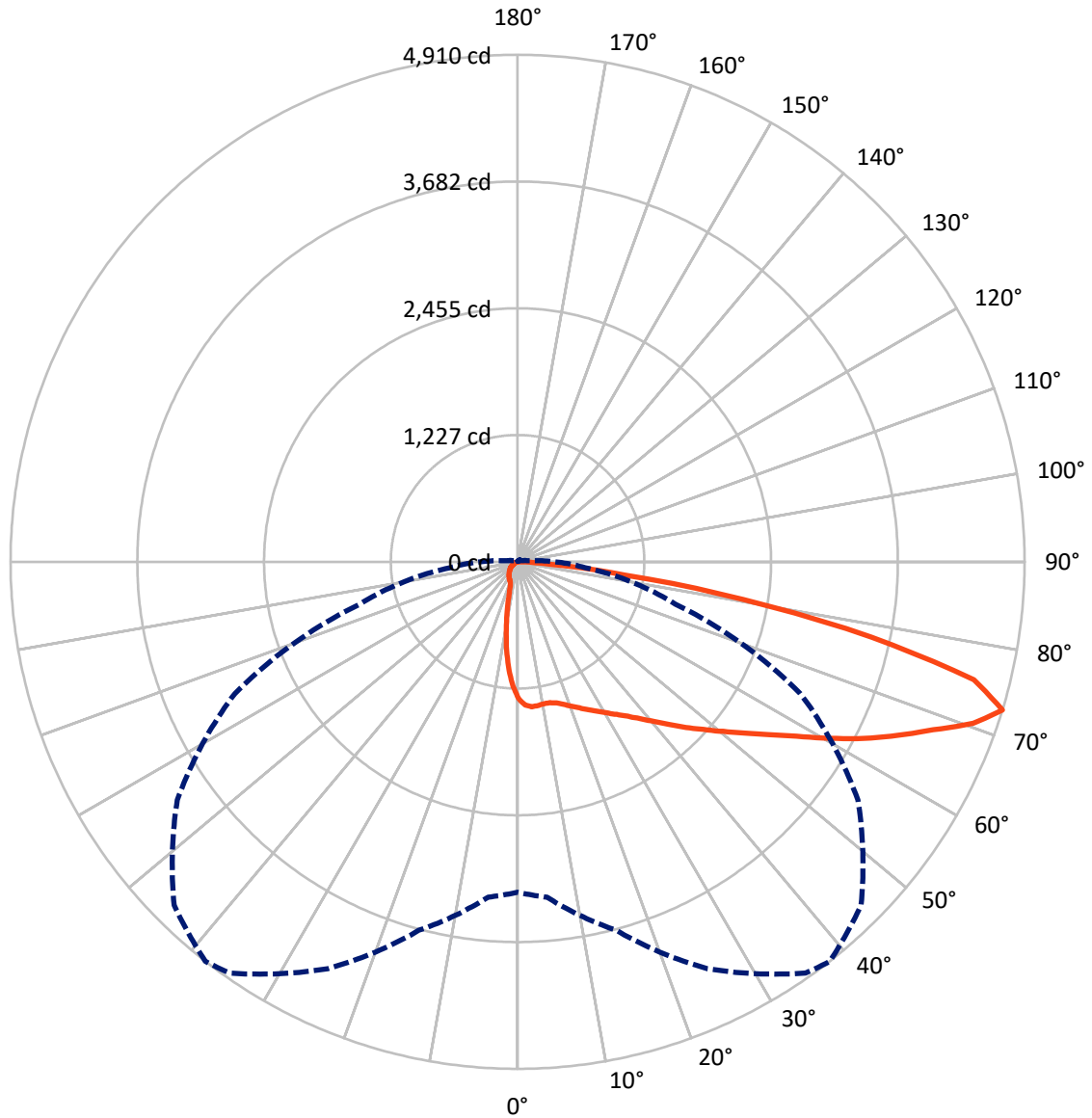
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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
<b>House Side</b>	Lumens	606.6	0.0	606.6
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	6601.7	0.0	6601.7
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	7208.3	0.0	7208.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.0	1.6
10°-20°	276.2	3.8
20°-30°	439.3	6.1
30°-40°	660.5	9.2
40°-50°	1007.6	14.0
50°-60°	1424.1	19.8
60°-70°	1786.3	24.8
70°-80°	1335.7	18.5
80°-90°	165.6	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°	7208.3	100.0
0°-180°	7208.3	100.0

**Coefficient of Utilization**

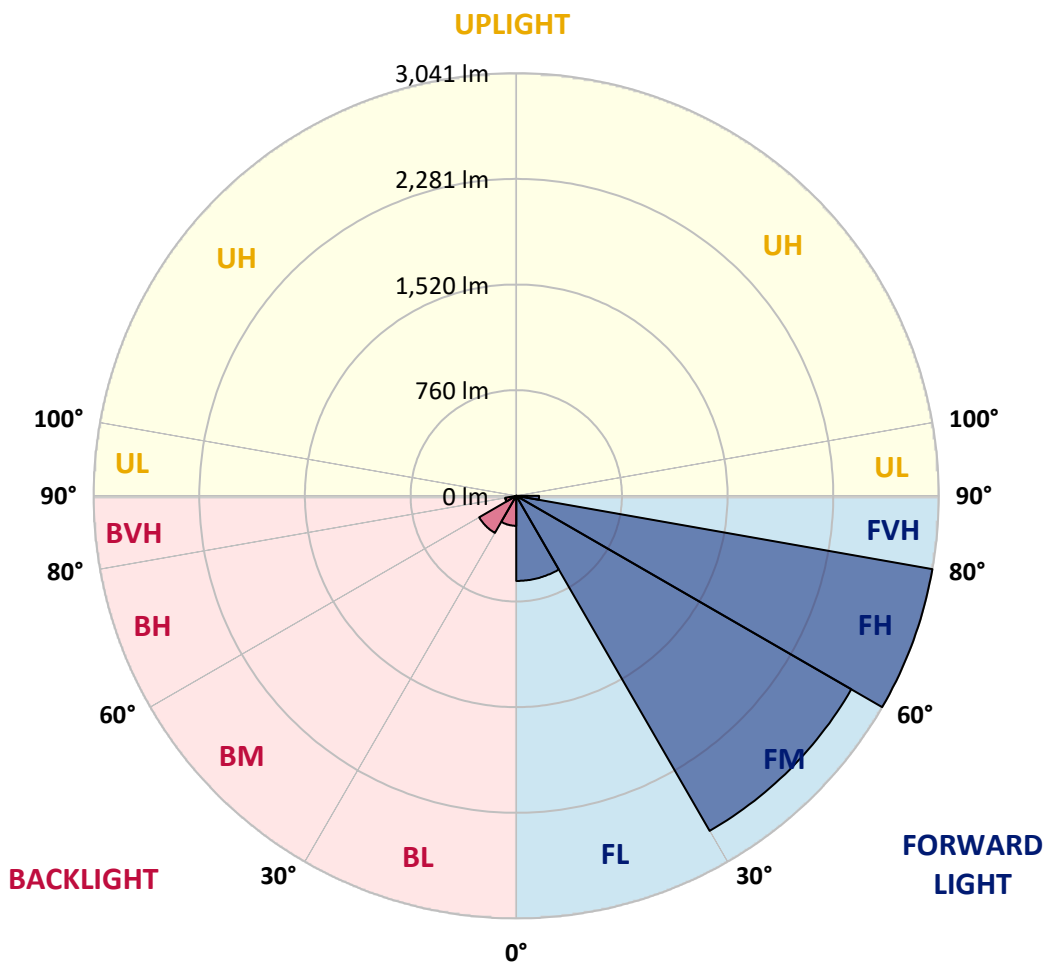


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	612.5	8.5			
FM (30°-60°)	2784.2	38.6			
FH (60°-80°)	3040.9	42.2			G2/5000
FVH (80°-90°)	164.1	2.3			G2/225
BL (0°-30°)	216.0	3.0	B1/500		
BM (30°-60°)	308.0	4.3	B1/1000		
BH (60°-80°)	81.0	1.1	B0/110		G0/110
BVH (80°-90°)	1.5	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-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1325.6	1325.6	1325.6	1325.6	1325.6	1325.6	1325.6	1325.6	1325.6	1325.6	1325.6
2.5°	1407.0	1407.3	1404.0	1398.6	1391.7	1388.2	1382.1	1372.5	1362.4	1344.1	1324.4
5°	1435.8	1435.8	1431.6	1424.3	1413.3	1410.0	1398.6	1383.3	1362.4	1332.8	1299.5
7.5°	1432.7	1433.4	1427.7	1420.1	1409.2	1406.1	1392.4	1375.2	1349.3	1313.3	1270.8
10°	1417.2	1418.7	1414.2	1410.6	1400.4	1397.1	1384.3	1367.2	1341.1	1302.9	1254.0
12.5°	1401.3	1402.8	1404.3	1407.6	1401.3	1400.1	1390.0	1375.6	1350.7	1310.9	1255.8
15°	1391.2	1394.2	1405.0	1417.8	1419.3	1418.1	1411.5	1398.1	1372.9	1331.6	1268.7
17.5°	1391.2	1395.9	1418.4	1443.0	1451.6	1452.6	1446.8	1428.0	1398.1	1353.7	1280.7
20°	1402.8	1409.4	1444.5	1479.2	1493.6	1493.6	1482.5	1456.1	1421.1	1373.8	1288.8
22.5°	1432.7	1441.5	1485.4	1525.6	1540.9	1537.5	1522.5	1484.2	1445.0	1396.6	1298.9
25°	1491.7	1498.3	1544.1	1584.6	1593.8	1586.3	1567.5	1518.4	1475.6	1427.4	1317.5
27.5°	1567.8	1568.6	1616.0	1650.1	1644.4	1639.3	1615.7	1561.2	1519.5	1471.4	1349.5
30°	1651.3	1651.3	1692.9	1719.0	1701.6	1697.4	1673.7	1613.0	1575.9	1531.3	1395.0
32.5°	1732.1	1735.8	1769.6	1786.0	1766.6	1762.4	1739.3	1678.6	1650.7	1622.6	1466.0
35°	1810.3	1813.0	1845.0	1854.0	1835.4	1836.6	1820.2	1768.6	1758.2	1754.6	1572.8
37.5°	1886.0	1886.6	1919.3	1924.9	1915.6	1925.8	1927.3	1881.8	1901.3	1930.3	1723.5
40°	1955.1	1955.8	1988.1	2002.7	2018.6	2031.8	2043.4	2019.2	2083.6	2150.9	1902.8
42.5°	2010.6	2016.8	2057.8	2085.6	2127.6	2152.7	2184.5	2183.3	2300.6	2401.8	2119.5
45°	2059.4	2070.1	2127.3	2176.1	2247.9	2288.1	2337.7	2376.7	2544.9	2681.1	2338.9
47.5°	2123.6	2133.9	2199.1	2279.0	2374.9	2427.5	2509.9	2594.0	2813.5	2955.3	2553.3
50°	2214.4	2209.9	2274.3	2389.0	2512.0	2581.1	2698.5	2824.5	3079.9	3194.2	2679.3
52.5°	2311.1	2309.3	2356.9	2508.4	2673.6	2754.5	2909.5	3062.8	3334.7	3358.9	2737.1
55°	2430.9	2417.9	2458.1	2644.6	2865.5	2952.4	3134.9	3298.7	3537.6	3451.7	2766.1
57.5°	2556.3	2535.0	2573.3	2796.3	3081.9	3184.7	3384.6	3528.6	3672.6	3515.1	2765.9
60°	2685.9	2660.8	2706.2	2986.2	3350.8	3469.6	3655.2	3684.0	3798.7	3547.1	2745.5
62.5°	2794.3	2779.3	2847.0	3189.2	3651.0	3767.8	3859.7	3825.3	3905.0	3572.0	2697.9
65°	2908.9	2909.8	3019.1	3426.0	3970.2	4048.9	4056.7	4008.4	3993.8	3566.9	2536.8
67.5°	3064.0	3078.4	3260.7	3747.4	4280.6	4341.4	4340.8	4207.0	4058.8	3364.6	2179.6
70°	3228.1	3261.9	3539.0	4115.4	4619.5	4681.1	4649.4	4333.3	3821.7	2720.6	1542.6
72.5°	3200.5	3259.2	3693.9	4347.3	4862.9	4909.9	4703.6	4022.9	3020.5	1581.2	656.8
75°	2469.2	2537.1	3387.0	4117.4	4607.5	4565.3	4041.4	3130.5	1650.7	441.3	147.9
77.5°	1304.4	1340.6	2237.5	3136.7	3592.7	3504.4	2847.0	1736.6	503.2	109.3	66.4
80°	683.1	691.5	975.1	1779.7	2217.4	2218.0	1687.2	762.8	207.5	56.0	44.6
82.5°	365.8	373.0	515.2	822.4	1161.8	1053.2	646.0	419.8	120.6	31.8	42.9
85°	88.0	89.5	292.1	375.7	456.8	326.3	191.9	352.3	32.6	18.5	34.7
87.5°	33.8	34.5	108.3	162.6	116.4	75.5	89.8	131.4	4.2	7.2	5.4
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°	1325.6	1325.6	1325.6	1325.6	1325.6	1325.6	1325.6	1325.6	1325.6	1325.6	1325.6
2.5°	1312.5	1304.6	1285.4	1261.2	1239.7	1224.1	1200.8	1185.5	1175.3	1175.0	1171.1
5°	1279.2	1263.3	1222.0	1172.9	1128.3	1088.2	1040.9	1003.5	975.6	971.1	961.5
7.5°	1243.5	1217.5	1154.1	1077.4	1002.5	926.5	838.2	783.4	736.5	713.9	711.6
10°	1221.7	1185.2	1095.0	984.3	867.0	743.3	627.8	547.8	490.1	473.6	461.3
12.5°	1217.3	1169.0	1049.6	896.9	729.2	565.8	438.0	353.0	306.9	292.1	288.3
15°	1221.7	1161.5	1011.3	810.4	589.8	401.4	294.0	244.6	227.2	223.0	222.7
17.5°	1224.4	1152.5	967.9	714.3	454.4	286.8	225.2	210.7	208.0	207.7	208.4
20°	1224.1	1138.8	916.1	607.1	338.0	225.4	203.5	200.6	200.0	200.3	200.0
22.5°	1222.0	1122.6	859.2	496.6	255.3	201.5	194.3	192.5	192.2	192.2	192.2
25°	1225.9	1109.8	796.6	391.0	210.4	190.4	185.9	184.4	184.1	184.1	183.5
27.5°	1240.0	1102.6	728.1	300.9	190.1	180.5	176.9	176.6	175.7	175.4	176.1
30°	1262.7	1102.6	652.9	234.1	177.8	170.4	167.7	167.0	166.7	166.5	166.7
32.5°	1302.9	1111.0	570.9	194.6	166.2	158.9	157.2	158.1	157.2	157.2	157.2
35°	1375.2	1136.1	485.0	169.7	153.9	147.9	146.1	147.3	146.7	146.7	146.3
37.5°	1481.0	1182.8	398.4	154.7	143.1	136.8	134.4	136.2	135.6	135.6	135.4
40°	1609.7	1250.8	316.2	143.4	132.7	126.0	123.9	124.8	123.3	123.3	123.9
42.5°	1768.6	1337.0	244.3	132.3	122.1	115.9	114.7	113.7	111.0	109.5	109.8
45°	1945.3	1426.8	190.4	121.6	112.3	107.1	105.4	102.9	98.5	95.5	95.8
47.5°	2103.1	1495.9	154.7	111.0	103.3	99.4	96.7	92.2	85.6	82.1	82.3
50°	2186.0	1506.4	131.7	100.6	94.9	91.0	87.1	80.2	72.5	68.6	68.3
52.5°	2207.2	1457.3	114.7	91.0	86.5	82.1	76.9	67.6	59.0	54.8	54.2
55°	2215.0	1382.5	99.4	82.1	77.5	72.5	65.9	55.4	47.3	43.1	42.9
57.5°	2189.2	1270.8	87.4	74.0	68.6	62.2	54.2	44.3	36.5	33.3	33.3
60°	2132.0	1119.6	78.2	65.3	59.2	52.1	43.7	34.5	27.2	24.6	24.6
62.5°	2018.0	923.8	69.5	56.3	50.6	43.1	35.3	26.1	19.2	17.7	18.0
65°	1802.7	700.8	60.7	48.2	43.1	35.6	27.6	18.5	12.9	12.9	13.5
67.5°	1470.2	486.7	51.8	41.0	37.1	29.1	21.0	12.9	8.9	10.2	11.4
70°	973.2	273.0	44.3	33.8	31.8	23.0	15.6	8.7	7.2	9.6	11.6
72.5°	367.3	106.3	37.1	27.2	27.6	17.7	11.1	6.6	6.6	10.4	13.8
75°	102.4	52.1	26.6	20.0	21.5	12.9	8.1	5.7	6.2	12.0	16.2
77.5°	60.2	38.3	17.3	11.6	14.6	8.9	5.4	4.5	5.4	10.2	15.6
80°	48.5	20.4	10.2	6.0	8.1	5.1	3.6	2.7	1.5	3.9	8.1
82.5°	48.5	12.3	4.8	4.2	4.2	2.7	1.8	1.2	0.3	0.0	2.0
85°	32.6	5.1	3.0	2.7	2.0	0.9	0.6	0.3	0.0	0.0	0.0
87.5°	5.4	2.0	1.2	0.6	0.3	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)