

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: P383016

Luminaire Tested: **GLEON-SA3C-735-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383016  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3C-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14578.7 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

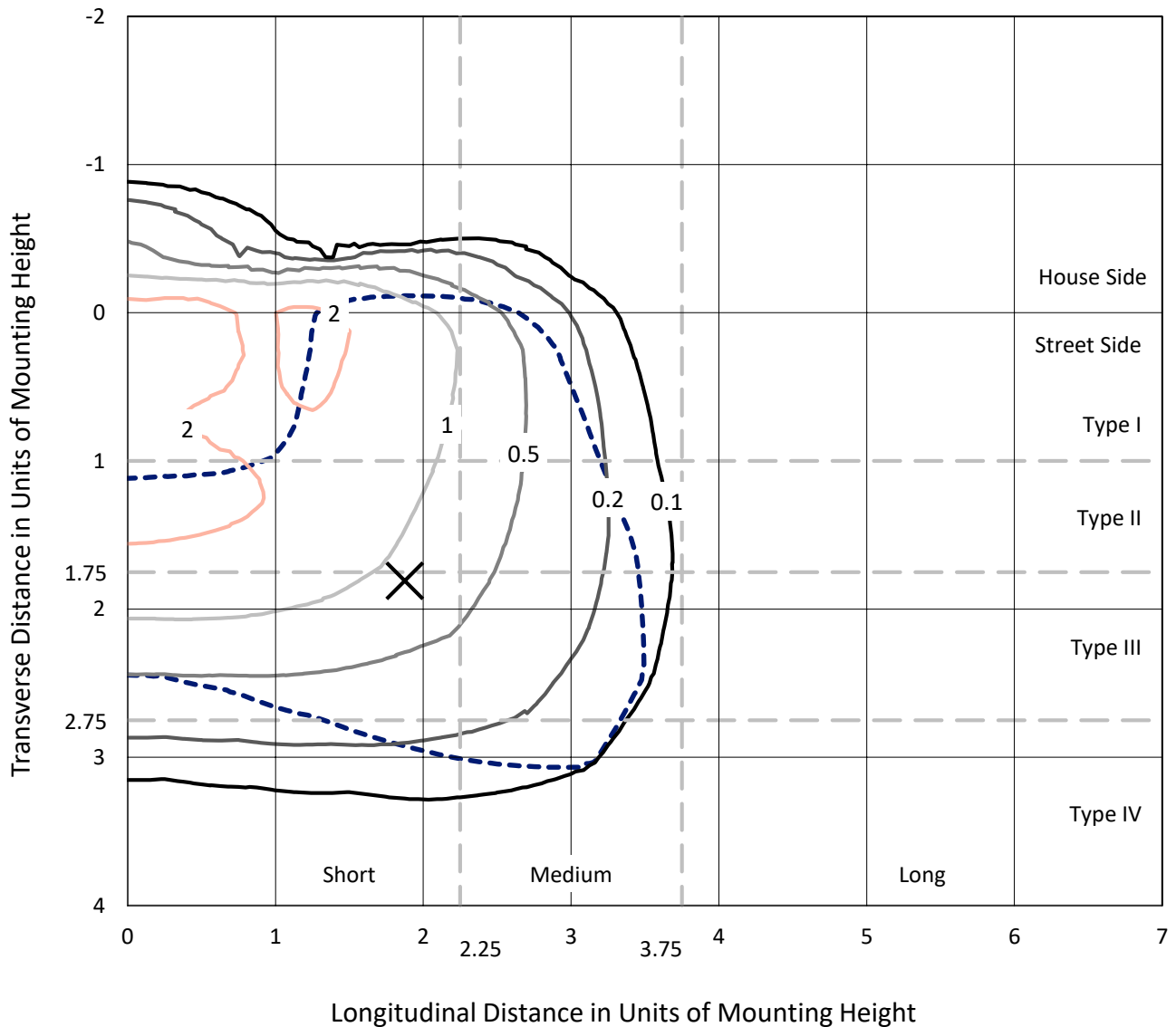
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

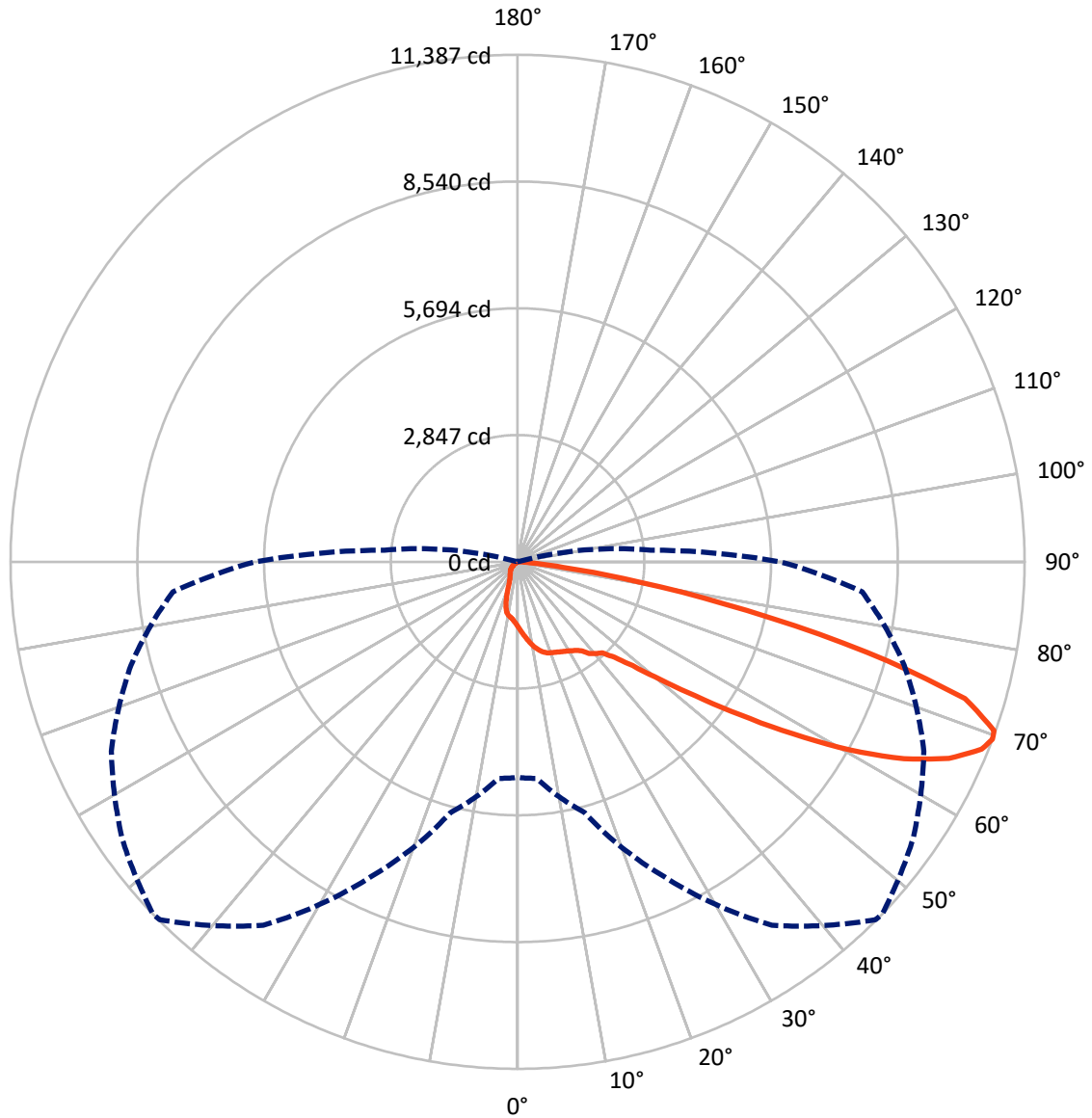
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1496.2	0.0	1496.2
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	13082.5	0.0	13082.5
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	14578.7	0.0	14578.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.4	1.0
10°-20°	441.1	3.0
20°-30°	693.7	4.8
30°-40°	994.8	6.8
40°-50°	1719.3	11.8
50°-60°	3396.6	23.3
60°-70°	4747.1	32.6
70°-80°	2293.4	15.7
80°-90°	147.4	1.0
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°	14578.7	100.0
0°-180°	14578.7	100.0



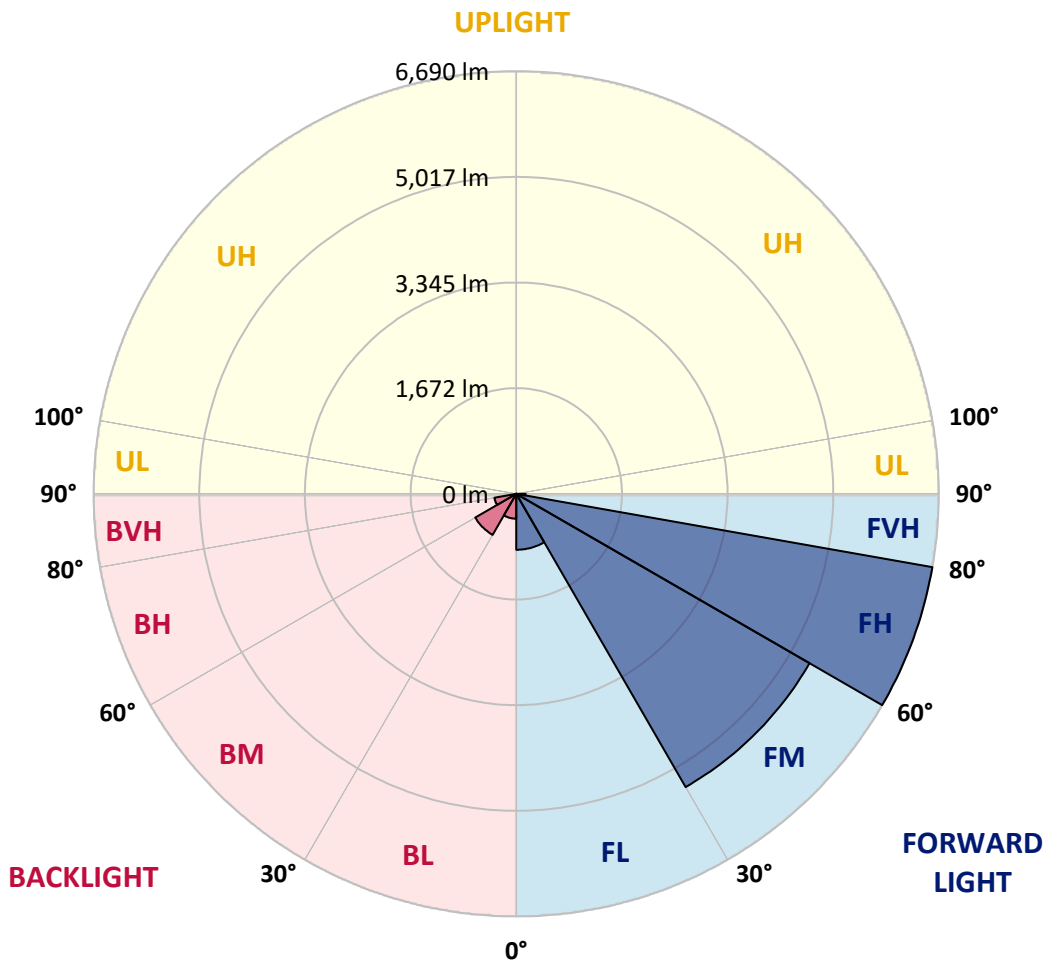
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	885.8	6.1			
FM (30°-60°)	5360.9	36.8			
FH (60°-80°)	6689.6	45.9			G3/7500
FVH (80°-90°)	146.2	1.0			G2/225
BL (0°-30°)	394.3	2.7	B1/500		
BM (30°-60°)	749.8	5.1	B1/1000		
BH (60°-80°)	350.8	2.4	B1/500		G1/500
BVH (80°-90°)	1.2	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1460.8	1460.8	1460.8	1460.8	1460.8	1460.8	1460.8	1460.8	1460.8	1460.8	1460.8
2.5°	1622.8	1620.7	1611.1	1607.0	1583.8	1570.1	1564.6	1547.6	1522.9	1498.3	1471.0
5°	1807.3	1806.6	1788.9	1771.7	1728.0	1687.0	1679.5	1639.8	1584.5	1532.5	1480.6
7.5°	1995.9	1987.1	1969.3	1936.5	1872.9	1807.3	1801.1	1745.1	1666.4	1591.3	1516.7
10°	2155.9	2150.4	2127.2	2077.3	2002.8	1928.3	1920.8	1851.7	1762.9	1670.5	1575.5
12.5°	2280.3	2276.2	2245.4	2183.3	2104.0	2026.7	2016.4	1954.9	1859.9	1756.7	1644.6
15°	2356.2	2354.1	2316.6	2250.2	2172.3	2105.3	2096.4	2042.4	1954.3	1846.2	1719.8
17.5°	2374.0	2374.6	2335.7	2268.7	2204.4	2156.6	2149.7	2108.7	2034.9	1927.6	1795.0
20°	2334.3	2342.5	2307.6	2249.5	2209.9	2184.6	2179.2	2154.6	2092.3	1991.2	1855.2
22.5°	2278.3	2282.4	2258.4	2219.5	2203.0	2207.9	2205.1	2191.5	2138.8	2045.9	1914.6
25°	2244.1	2244.1	2229.8	2196.9	2207.9	2237.2	2237.9	2235.2	2193.5	2112.8	1987.1
27.5°	2242.7	2238.6	2222.2	2197.6	2227.7	2272.8	2275.5	2293.9	2268.0	2194.2	2077.3
30°	2297.4	2292.6	2257.8	2225.7	2263.9	2312.5	2319.3	2359.6	2346.6	2282.4	2177.8
32.5°	2425.2	2408.1	2330.9	2278.3	2307.0	2365.1	2374.0	2438.2	2458.7	2391.0	2274.8
35°	2600.2	2546.2	2434.8	2378.1	2380.8	2441.6	2449.8	2544.1	2605.0	2490.9	2350.0
37.5°	2841.5	2814.9	2633.7	2481.9	2494.2	2586.5	2610.5	2712.9	2695.9	2545.5	2435.4
40°	3370.5	3328.9	3136.1	2773.1	2602.9	2704.1	2711.6	2766.3	2767.6	2669.3	2613.2
42.5°	4091.0	4073.9	3871.0	3301.5	2816.9	2782.7	2796.4	2888.6	2991.9	2930.4	2927.6
45°	4888.7	4879.8	4664.5	4002.9	3249.6	3040.4	3057.5	3181.2	3378.7	3392.4	3479.2
47.5°	5530.6	5526.4	5402.7	4785.5	3911.9	3477.2	3482.7	3613.9	3961.1	4132.7	4271.4
50°	6115.7	6135.5	6037.7	5632.4	4814.2	4161.4	4148.5	4235.9	4793.7	5074.6	5246.8
52.5°	6929.1	6957.1	6683.0	6422.6	5760.9	5010.4	5000.1	5091.7	5794.4	6004.9	6035.7
55°	7647.4	7599.7	7383.0	7307.8	6915.4	6059.0	6056.2	6136.8	6762.3	6851.8	6908.5
57.5°	7964.6	7946.2	8050.8	8223.1	8124.6	7298.2	7292.1	7230.5	7628.4	7637.9	7812.2
60°	8164.9	8187.5	8508.1	9039.2	9284.5	8631.8	8592.1	8216.9	8455.5	8434.2	8620.8
62.5°	8014.6	8059.0	8635.9	9521.1	10152.7	9795.9	9739.8	9120.5	9162.2	9089.1	9262.7
65°	7216.1	7285.2	8230.6	9430.1	10583.3	10705.6	10648.9	9918.2	9723.4	9603.1	9506.7
67.5°	5859.3	5900.3	6887.4	8639.3	10389.2	11248.4	11236.8	10617.5	10147.3	9516.3	8768.5
69°	4842.2	4882.5	5832.7	7806.7	9962.0	11364.6	11387.1	10841.7	10066.6	8988.6	7769.2
70°	4101.2	4144.4	5029.5	7093.2	9466.4	11310.6	11350.9	10820.5	9835.6	8377.5	6892.1
72.5°	2151.1	2188.0	3096.5	4886.6	7717.2	10385.7	10508.1	9905.9	8337.2	6084.2	4075.3
75°	676.0	697.2	1209.1	2554.4	5283.8	8075.4	8103.4	7770.5	5920.2	3346.6	1697.3
77.5°	257.7	251.5	402.6	941.2	2671.3	5084.9	5256.4	4855.9	3106.7	1183.3	391.7
80°	138.8	139.5	209.1	389.7	1142.9	2613.2	2758.1	2353.5	1103.9	369.1	90.3
82.5°	60.2	62.9	117.6	206.4	524.9	963.8	1036.3	862.6	421.7	248.2	33.5
85°	12.9	14.3	56.7	112.1	214.0	270.7	283.7	279.6	268.7	192.7	12.9
87.5°	0.0	0.0	25.2	40.3	54.0	61.5	54.0	70.4	148.3	129.9	6.8
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°	1460.8	1460.8	1460.8	1460.8	1460.8	1460.8	1460.8	1460.8	1460.8	1460.8	1460.8
2.5°	1462.1	1449.8	1428.6	1405.3	1388.9	1371.9	1358.2	1352.0	1345.2	1340.4	1346.6
5°	1459.4	1435.4	1394.4	1354.7	1326.1	1302.9	1283.7	1276.2	1268.7	1263.2	1262.5
7.5°	1483.3	1449.8	1386.9	1328.9	1284.4	1252.9	1226.9	1216.0	1207.1	1203.0	1199.6
10°	1529.0	1486.0	1402.0	1326.1	1268.7	1215.3	1159.3	1116.3	1088.2	1075.2	1070.4
12.5°	1588.6	1534.5	1430.7	1340.4	1257.0	1154.5	1035.6	933.0	866.7	844.8	831.9
15°	1658.2	1591.3	1468.2	1358.8	1214.6	1027.4	825.7	691.8	630.2	617.9	604.3
17.5°	1725.2	1651.4	1513.4	1362.3	1121.7	821.0	604.9	514.0	490.1	498.3	500.3
20°	1784.0	1710.9	1557.8	1332.2	952.9	615.8	468.2	445.7	454.6	470.2	473.0
22.5°	1843.5	1768.4	1598.8	1252.9	736.9	467.5	421.7	427.2	436.1	451.8	454.6
25°	1916.0	1838.0	1637.1	1107.3	553.0	397.9	400.6	408.8	417.6	432.0	433.4
27.5°	1999.4	1926.3	1662.3	918.0	410.2	365.7	374.6	386.9	395.8	409.4	412.2
30°	2110.1	2042.4	1670.5	721.9	343.8	336.9	341.1	356.1	369.1	381.4	383.4
32.5°	2214.0	2157.3	1643.2	544.8	318.5	310.3	310.3	319.2	334.2	345.9	348.6
35°	2309.7	2272.8	1555.8	398.5	299.4	285.7	278.9	278.9	288.5	298.0	300.8
37.5°	2436.2	2434.8	1414.3	317.8	281.0	265.2	250.9	240.0	236.5	238.6	240.0
40°	2652.9	2654.9	1229.7	285.1	265.2	244.1	222.2	202.3	183.9	177.7	177.0
42.5°	2991.2	2960.5	1036.3	269.3	251.5	222.2	189.4	162.6	134.0	125.1	124.4
45°	3528.4	3345.9	831.2	255.0	237.2	197.6	156.5	120.3	97.1	90.3	90.3
47.5°	4311.1	3852.4	643.9	239.2	218.1	169.5	118.2	86.8	71.1	67.6	68.4
50°	5120.4	4348.7	493.5	219.4	194.8	140.1	87.5	62.9	54.0	54.0	54.7
52.5°	5838.1	4712.3	384.8	198.2	166.1	110.0	66.3	49.2	45.1	44.4	45.1
55°	6510.0	4946.8	294.6	173.6	131.9	82.1	50.6	40.3	37.6	36.2	35.6
57.5°	7158.1	5063.1	220.8	140.1	95.7	59.4	40.3	34.2	31.5	29.4	28.7
60°	7589.4	4968.7	151.7	103.2	66.3	43.0	33.5	29.4	26.0	23.9	23.2
62.5°	7832.7	4711.0	97.7	74.5	47.1	32.1	26.6	24.6	19.8	17.8	17.8
65°	7734.3	4285.9	68.4	53.3	34.2	23.9	19.8	19.8	14.3	11.6	10.9
67.5°	6853.9	3620.7	52.0	39.7	24.6	17.8	15.0	17.0	8.8	5.5	5.5
69°	5897.0	3000.8	44.4	32.8	20.5	14.3	12.9	15.7	6.1	4.1	3.4
70°	5125.2	2588.6	40.3	28.7	17.0	12.3	11.6	15.0	6.1	3.4	2.7
72.5°	3066.4	1443.6	30.7	20.5	10.9	9.6	9.6	17.0	6.1	3.4	2.7
75°	1239.2	508.5	22.5	14.3	8.2	8.2	11.6	21.9	5.5	2.7	2.0
77.5°	281.0	111.4	12.9	8.8	5.5	8.2	13.7	17.0	3.4	1.4	0.0
80°	68.4	27.4	8.2	5.5	3.4	6.1	10.2	9.6	0.7	0.0	0.0
82.5°	22.5	9.6	3.4	2.7	0.7	2.0	4.8	2.7	0.0	0.0	0.0
85°	9.6	5.5	1.4	0.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0
87.5°	6.1	2.0	0.0	0.0	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)