

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: P382856

Luminaire Tested: **GLEON-SA2B-735-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382856  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2B-735-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9021.1 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

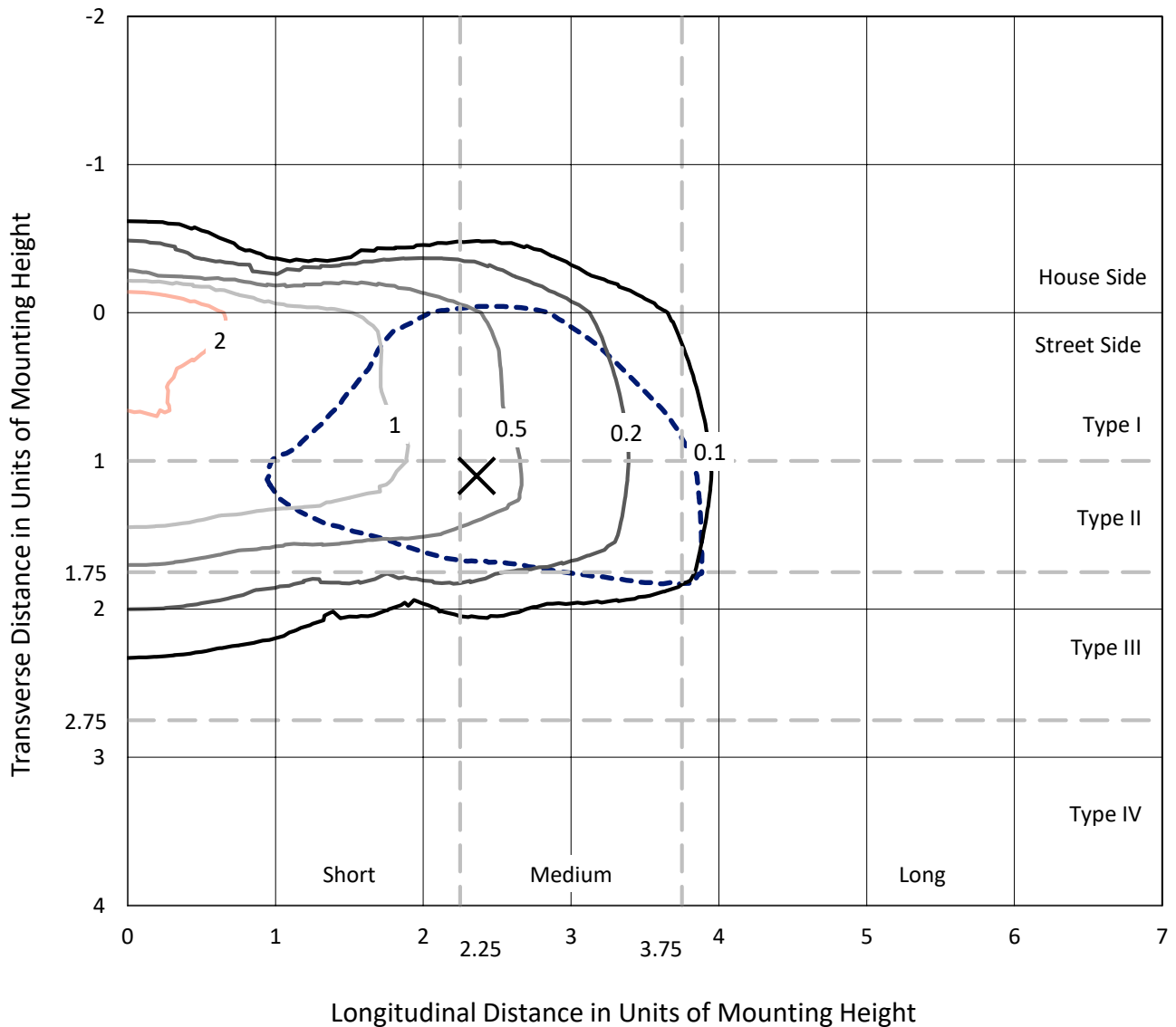
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

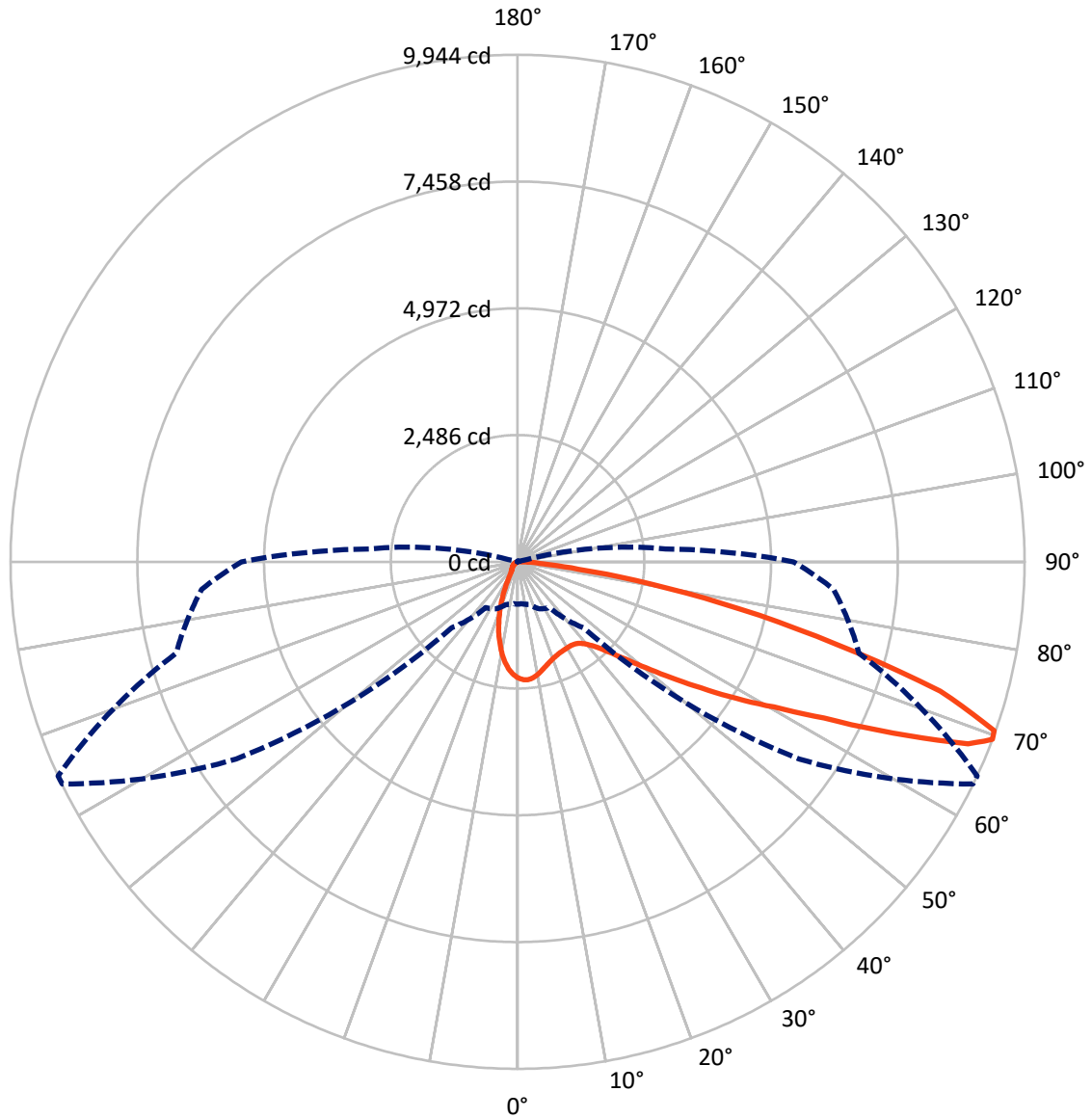
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1063.4	0.0	1063.4
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	7957.7	0.0	7957.7
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	9021.1	0.0	9021.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.6	2.1
10°-20°	417.3	4.6
20°-30°	578.0	6.4
30°-40°	805.9	8.9
40°-50°	1252.6	13.9
50°-60°	2010.9	22.3
60°-70°	2274.6	25.2
70°-80°	1335.9	14.8
80°-90°	155.4	1.7
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°	9021.1	100.0
0°-180°	9021.1	100.0

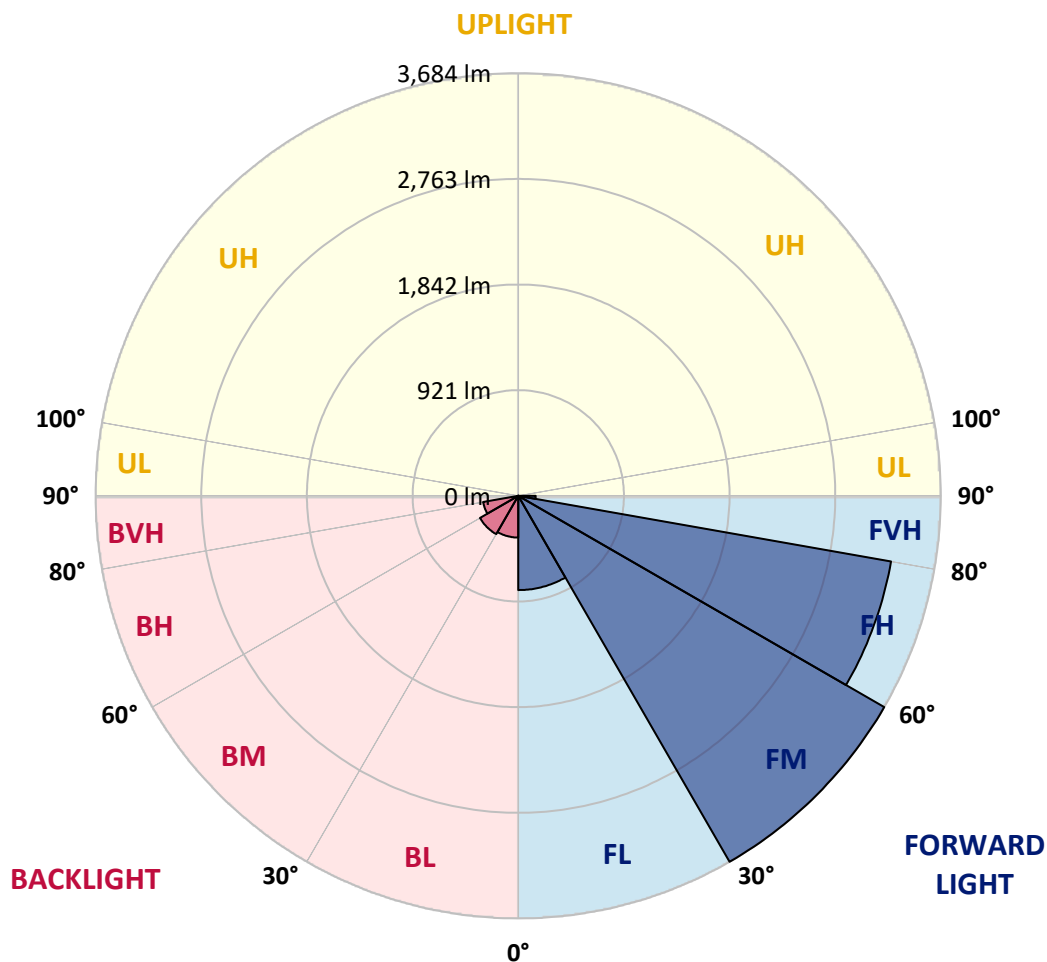


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	822.0	9.1			
FM (30°-60°)	3684.0	40.8			
FH (60°-80°)	3299.8	36.6			G2/5000
FVH (80°-90°)	151.9	1.7			G2/225
BL (0°-30°)	363.8	4.0	B1/500		
BM (30°-60°)	385.3	4.3	B1/1000		
BH (60°-80°)	310.7	3.4	B1/500		G1/500
BVH (80°-90°)	3.5	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2279.7	2279.7	2279.7	2279.7	2279.7	2279.7	2279.7	2279.7	2279.7	2279.7	2279.7
2.5°	2299.9	2294.1	2298.8	2308.7	2313.6	2313.6	2317.4	2312.8	2314.4	2303.3	2287.3
5°	2156.0	2147.2	2159.8	2187.6	2222.0	2251.4	2295.0	2317.8	2320.1	2320.5	2301.8
7.5°	2001.0	1993.0	2011.7	2044.5	2088.8	2143.4	2219.3	2285.7	2289.6	2325.4	2311.7
10°	1875.0	1869.3	1891.0	1926.2	1978.0	2039.2	2132.3	2224.7	2235.7	2315.2	2310.1
12.5°	1775.0	1770.4	1791.1	1831.5	1884.5	1952.2	2049.5	2156.7	2171.6	2291.9	2302.6
15°	1702.1	1701.4	1718.5	1757.5	1816.2	1879.2	1978.9	2093.7	2110.9	2266.6	2301.4
17.5°	1663.9	1665.0	1677.7	1710.9	1761.3	1823.9	1919.3	2040.6	2059.4	2244.2	2307.2
20°	1660.1	1661.2	1668.1	1686.8	1727.6	1783.0	1870.8	1996.0	2015.5	2227.3	2316.3
22.5°	1693.7	1692.9	1694.9	1692.9	1715.8	1757.8	1838.8	1961.7	1984.2	2216.2	2323.6
25°	1758.2	1757.1	1756.3	1742.2	1726.9	1749.4	1825.4	1942.2	1963.6	2208.2	2327.8
27.5°	1847.9	1847.2	1846.0	1822.8	1776.9	1762.8	1827.0	1934.9	1952.9	2201.8	2327.0
30°	1965.8	1971.2	1969.7	1937.2	1865.9	1803.7	1843.0	1931.1	1946.7	2189.1	2319.0
32.5°	2104.5	2115.2	2123.6	2088.8	1999.5	1884.5	1880.0	1935.3	1946.7	2179.6	2304.5
35°	2248.4	2262.1	2293.0	2280.8	2163.2	2006.4	1943.8	1960.5	1970.0	2184.9	2297.6
37.5°	2390.0	2406.4	2473.5	2509.0	2377.8	2167.4	2043.0	2022.8	2027.7	2217.5	2305.2
40°	2554.5	2579.3	2681.2	2738.5	2633.9	2383.1	2191.5	2129.6	2131.6	2288.8	2340.7
42.5°	2770.5	2796.1	2906.4	2996.1	2922.5	2655.7	2393.1	2293.0	2291.1	2422.4	2424.4
45°	3034.0	3060.7	3174.8	3274.4	3241.2	2978.6	2651.1	2531.6	2529.3	2633.1	2582.7
47.5°	3332.4	3358.8	3460.7	3563.4	3599.2	3355.7	2979.7	2857.2	2851.8	2925.9	2827.4
50°	3588.6	3605.7	3699.6	3837.9	3999.7	3819.2	3388.6	3270.6	3264.9	3314.9	3186.6
52.5°	3681.8	3691.6	3787.1	3980.6	4384.5	4446.6	3925.6	3773.7	3769.5	3791.3	3664.9
55°	3493.1	3511.1	3628.3	3915.3	4592.9	5155.9	4603.6	4396.7	4365.0	4318.1	4164.9
57.5°	2979.4	3008.0	3133.9	3515.7	4495.6	5718.6	5599.9	5101.3	5054.8	4767.8	4571.5
60°	2232.4	2267.5	2372.0	2783.9	3976.0	5919.0	6688.5	5886.5	5781.6	5125.7	4945.2
62.5°	1531.8	1549.4	1620.4	1888.8	2928.2	5590.7	7599.4	6938.2	6746.5	5515.1	5349.5
65°	1170.0	1176.1	1205.1	1297.5	1743.7	4541.4	7961.6	8325.8	8094.0	5980.8	5769.0
67.5°	942.8	937.9	977.9	1110.0	1167.7	2770.5	7539.0	9638.5	9530.1	6603.5	6191.2
69°	831.4	824.5	865.4	1018.8	1096.7	1831.5	6739.7	9936.6	9943.5	6932.1	6220.1
70°	748.2	752.8	793.2	964.6	1072.7	1437.6	5976.3	9860.7	9914.8	7055.0	6046.1
72.5°	499.7	511.9	593.2	800.9	1031.4	1088.0	3608.4	8461.6	8670.1	6778.2	5187.2
75°	281.7	290.8	387.4	603.9	971.9	1036.0	1905.9	6233.9	6435.5	5668.2	4000.1
77.5°	138.1	143.2	219.1	389.8	812.7	987.2	1081.1	4234.4	4464.6	3699.6	2262.4
80°	58.4	61.1	109.5	240.5	581.0	942.1	802.8	2606.0	2634.7	1449.4	602.7
82.5°	22.5	23.3	46.2	150.0	369.2	734.4	671.5	1235.6	1205.9	272.9	137.4
85°	2.7	3.1	16.8	90.1	205.4	377.9	545.5	532.5	492.8	54.2	70.6
87.5°	0.0	0.0	1.1	27.5	61.1	177.1	283.7	221.1	199.3	17.5	36.6
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°	2279.7	2279.7	2279.7	2279.7	2279.7	2279.7	2279.7	2279.7	2279.7	2279.7	2279.7
2.5°	2273.9	2270.1	2249.5	2219.7	2191.5	2156.3	2122.7	2102.5	2086.5	2075.8	2088.4
5°	2280.1	2263.2	2200.6	2120.5	2041.9	1953.3	1870.8	1801.0	1773.5	1742.9	1756.7
7.5°	2278.1	2246.4	2133.8	1991.1	1846.8	1697.6	1556.2	1447.5	1391.0	1335.7	1349.8
10°	2268.6	2215.1	2044.5	1833.0	1617.0	1402.4	1202.1	1049.8	964.6	887.5	898.6
12.5°	2247.5	2173.1	1939.1	1652.1	1363.1	1080.3	845.5	650.5	545.9	499.7	505.4
15°	2235.0	2132.3	1827.7	1468.9	1092.1	752.4	516.8	384.4	336.7	321.4	323.3
17.5°	2228.9	2093.0	1712.4	1259.3	815.0	479.1	334.1	294.6	284.4	281.7	282.4
20°	2222.8	2053.3	1593.7	1052.0	561.5	322.1	274.4	263.0	259.2	255.7	256.5
22.5°	2212.4	2015.1	1466.2	842.1	378.7	261.5	247.3	236.2	228.2	224.0	224.9
25°	2199.8	1975.1	1336.0	627.2	276.4	233.3	219.8	204.2	194.7	187.1	187.4
27.5°	2179.6	1925.8	1201.7	456.6	232.0	208.8	190.9	173.6	157.6	148.9	148.9
30°	2151.4	1870.1	1052.4	326.8	208.0	184.7	163.0	141.6	124.5	116.4	115.7
32.5°	2120.1	1812.0	901.6	247.7	188.9	162.3	137.4	114.9	99.7	93.2	92.8
35°	2093.4	1749.4	751.2	207.6	169.8	140.5	113.4	94.3	82.1	76.8	76.4
37.5°	2076.2	1686.8	604.7	185.5	152.7	120.3	95.0	77.9	69.1	64.9	64.6
40°	2073.5	1640.3	470.6	168.7	136.7	102.3	79.4	66.0	58.0	53.5	53.1
42.5°	2108.3	1613.5	361.1	154.6	120.3	86.6	67.5	56.5	48.1	43.5	43.1
45°	2199.5	1621.9	277.9	142.0	103.9	73.3	57.3	46.9	39.3	35.9	35.1
47.5°	2365.9	1680.0	221.1	129.4	88.2	62.2	48.9	38.9	32.4	29.0	28.6
50°	2662.2	1816.2	184.7	115.7	73.7	53.1	40.4	31.7	26.4	23.3	22.9
52.5°	3055.3	2059.0	164.9	102.3	61.1	45.1	33.3	25.2	20.6	18.4	18.0
55°	3488.9	2352.9	151.9	87.8	50.0	37.4	26.4	19.8	16.0	14.2	13.3
57.5°	3912.3	2607.6	139.7	73.7	41.6	30.6	21.0	15.6	12.6	10.7	10.3
60°	4301.2	2841.5	125.6	59.2	34.0	24.0	16.4	12.2	10.0	8.0	8.0
62.5°	4717.7	3022.5	106.1	46.2	27.9	18.4	13.3	11.1	8.0	6.9	6.5
65°	5159.0	3156.8	83.2	35.9	21.8	13.8	11.1	11.5	6.5	4.9	4.6
67.5°	5485.0	3130.1	61.5	28.2	16.8	10.7	10.7	12.2	5.7	3.8	3.4
69°	5413.2	2912.9	51.5	24.4	14.5	9.1	10.0	12.2	5.3	3.4	3.1
70°	5205.2	2672.4	45.5	21.8	12.9	8.4	9.5	11.8	4.9	3.4	3.1
72.5°	4334.9	2012.8	35.5	16.4	10.3	6.9	8.0	10.3	4.9	3.4	2.7
75°	3260.7	1288.3	27.1	11.8	7.6	5.3	6.1	7.6	4.9	3.1	2.7
77.5°	1774.2	464.6	19.5	8.0	5.3	4.2	4.2	5.7	4.6	2.3	1.5
80°	456.2	116.8	12.2	5.3	4.2	3.1	2.7	3.8	2.7	0.4	0.0
82.5°	112.6	26.4	6.5	3.8	3.1	1.1	1.1	1.9	1.1	0.0	0.0
85°	61.9	12.9	4.2	2.7	1.5	0.0	0.0	0.4	0.0	0.0	0.0
87.5°	31.7	3.8	1.1	0.7	0.4	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)