

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: P648508

Luminaire Tested: **GALN-SA6B-835-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648508  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-835-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19397.3 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

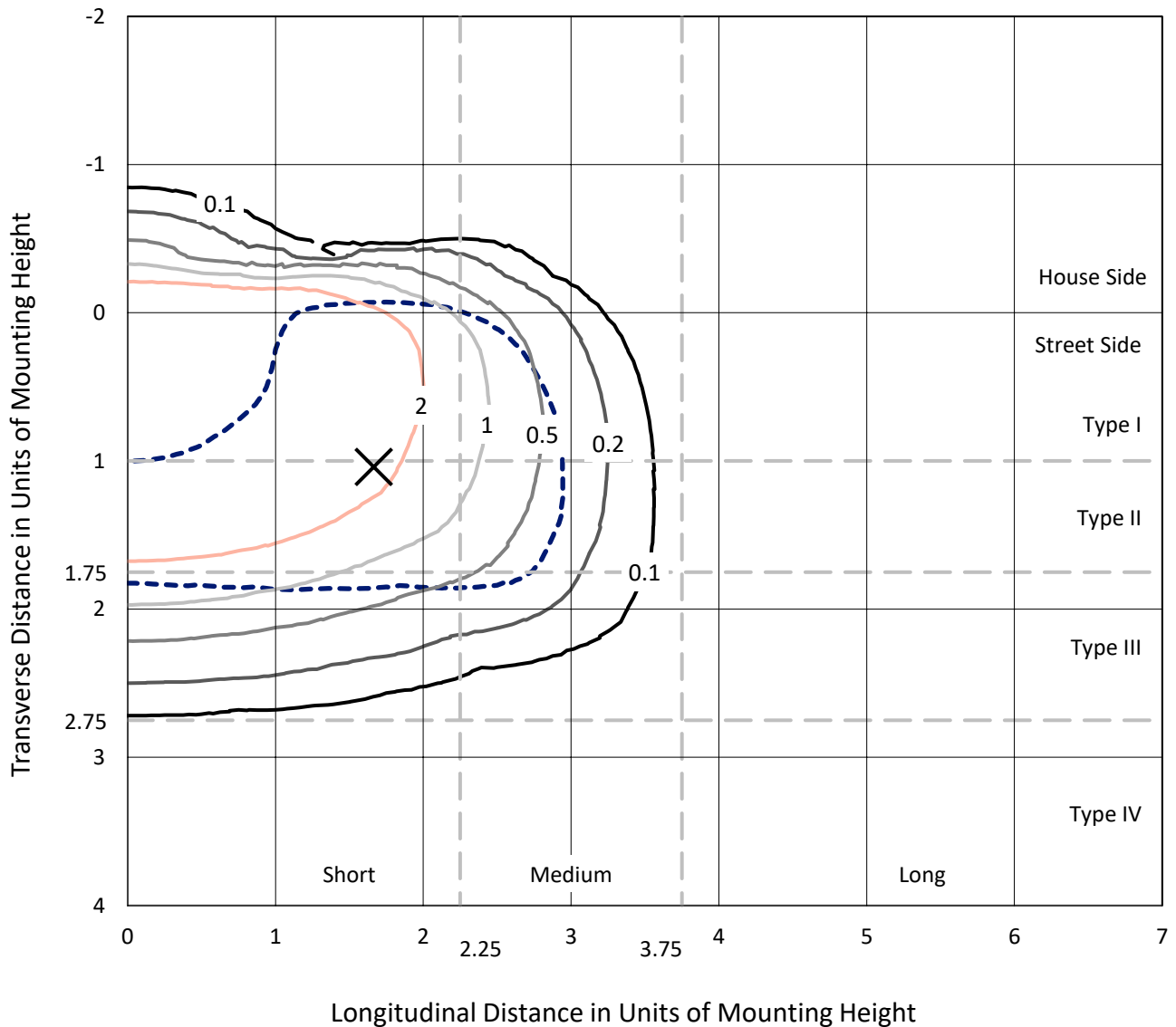
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA6B-835-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

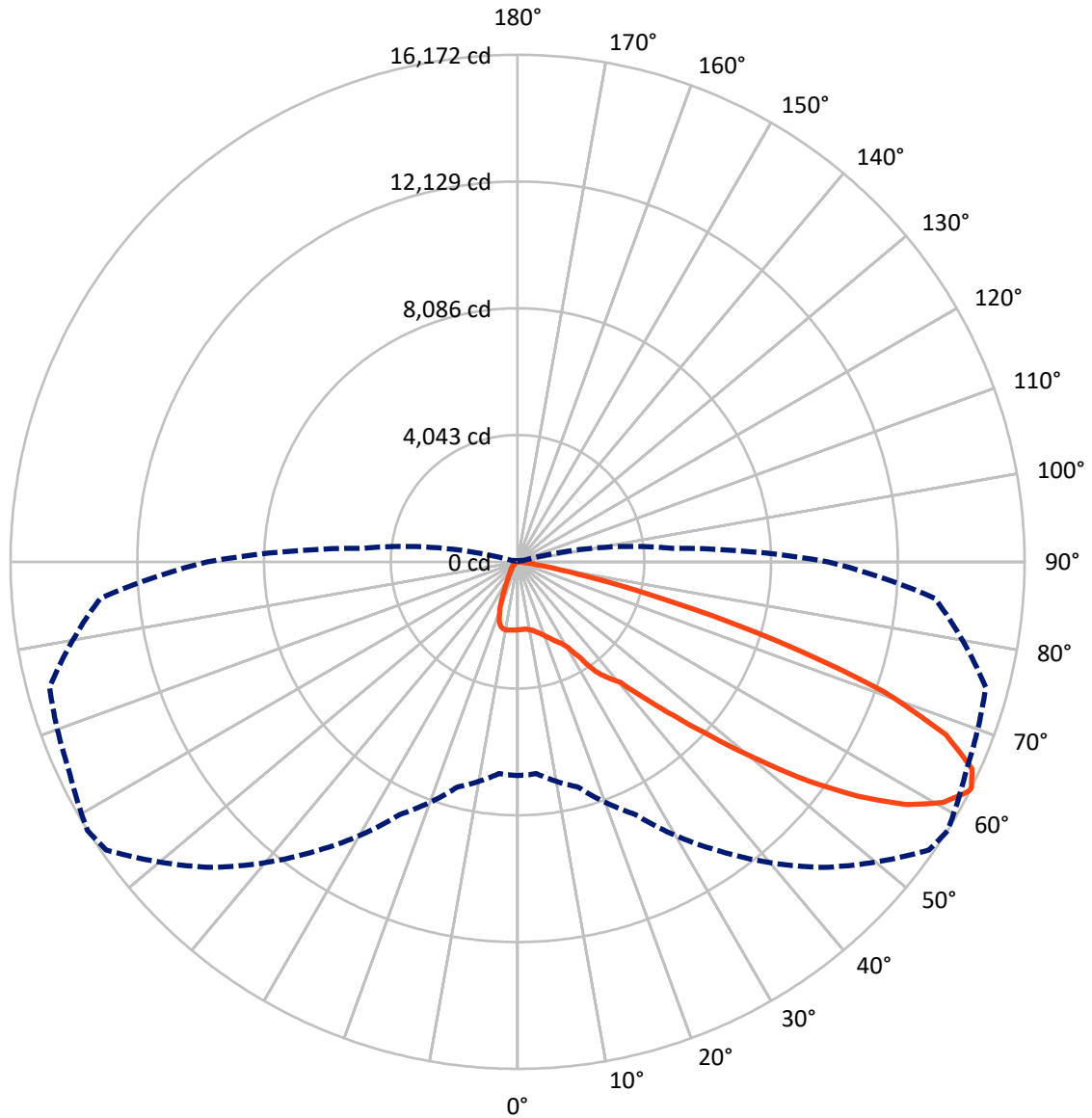
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2008.5	0.0	2008.5
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	17388.8	0.0	17388.8
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	19397.3	0.0	19397.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.3	1.0
10°-20°	553.7	2.9
20°-30°	961.0	5.0
30°-40°	1765.9	9.1
40°-50°	3324.2	17.1
50°-60°	5685.8	29.3
60°-70°	5444.2	28.1
70°-80°	1388.3	7.2
80°-90°	71.0	0.4
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°	19397.3	100.0
0°-180°	19397.3	100.0



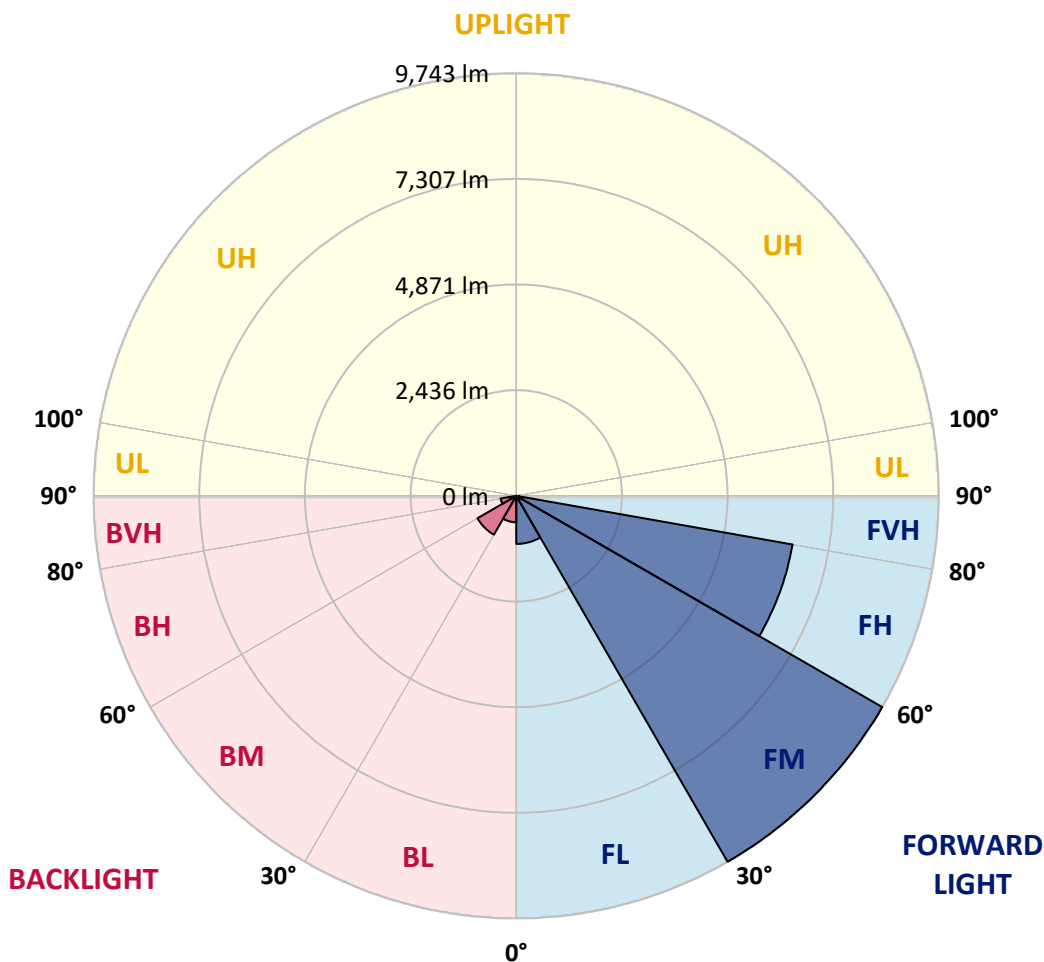
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1108.8	5.7			
FM (30°-60°)	9742.9	50.2			
FH (60°-80°)	6468.9	33.3			G3/7500
FVH (80°-90°)	68.2	0.4			G1/100
BL (0°-30°)	609.1	3.1	B2/1000		
BM (30°-60°)	1033.0	5.3	B2/2500		
BH (60°-80°)	363.6	1.9	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2171.6	2171.6	2171.6	2171.6	2171.6	2171.6	2171.6	2171.6	2171.6	2171.6	2171.6
2.5°	2117.5	2124.8	2132.2	2135.1	2145.3	2155.5	2162.8	2161.4	2173.1	2178.9	2178.9
5°	2032.8	2032.8	2051.9	2069.4	2098.6	2127.8	2155.5	2161.4	2183.3	2203.8	2211.0
7.5°	1961.3	1965.7	1980.3	2012.4	2051.9	2103.0	2158.4	2171.6	2209.5	2254.8	2273.8
10°	1927.7	1930.6	1949.6	1983.2	2032.8	2103.0	2180.3	2205.2	2263.6	2335.1	2361.4
12.5°	1920.4	1924.8	1943.8	1981.8	2038.7	2123.4	2228.6	2254.8	2339.5	2431.5	2471.0
15°	1933.5	1936.4	1955.5	1996.3	2059.1	2159.9	2292.8	2329.3	2430.1	2536.7	2587.8
17.5°	1980.3	1977.4	1990.5	2024.1	2094.2	2205.2	2370.2	2414.0	2532.3	2678.3	2711.9
20°	2178.9	2159.9	2148.2	2119.0	2146.8	2269.4	2463.7	2527.9	2673.9	2822.9	2846.3
22.5°	2606.8	2564.5	2481.2	2367.3	2279.7	2357.1	2576.1	2650.6	2839.0	2985.0	2985.0
25°	3151.5	3097.5	3014.2	2765.9	2551.3	2501.7	2703.2	2796.6	3018.6	3166.1	3117.9
27.5°	3833.5	3791.2	3629.0	3339.9	3011.3	2754.3	2850.7	2936.9	3177.8	3355.9	3255.2
30°	4388.5	4368.0	4235.1	3976.6	3614.5	3239.1	3125.3	3182.2	3389.5	3595.5	3491.8
32.5°	4857.3	4857.3	4721.4	4480.5	4141.7	3808.7	3591.1	3632.0	3830.6	4068.6	3875.8
35°	5372.8	5355.3	5245.7	5016.4	4636.8	4343.2	4254.1	4309.6	4489.3	4666.0	4191.3
37.5°	5914.5	5908.8	5794.8	5572.8	5263.2	4893.8	4684.9	4699.6	4791.6	4899.6	4560.8
40°	6503.1	6511.9	6362.9	6225.6	5933.6	5555.3	5155.2	5063.2	5149.3	5454.5	5242.8
42.5°	7198.3	7177.8	7113.6	6926.7	6691.5	6465.2	5984.7	5951.1	6027.0	6354.1	6124.9
45°	8005.9	8035.1	7924.0	7820.4	7662.7	7474.3	7072.7	7014.3	7097.5	7605.7	7280.0
47.5°	8814.9	8787.1	8858.7	8839.8	8924.4	8784.2	8429.4	8309.6	8509.7	8991.6	8512.6
50°	9431.2	9461.9	9610.9	9828.5	10192.1	10270.9	9930.6	9889.8	9978.9	10288.5	9615.2
52.5°	9831.3	9933.5	10167.3	10726.6	11382.2	11892.0	11633.4	11611.6	11575.0	11658.3	10669.6
55°	10092.7	10196.5	10501.7	11325.3	12454.2	13282.3	13295.4	13201.9	12960.9	12901.1	11655.3
57.5°	9932.1	9952.6	10387.7	11488.9	13048.5	14273.9	14703.2	14609.8	14164.3	13937.9	12525.7
60°	8927.4	8969.7	9575.8	10869.7	12790.1	14598.0	15636.4	15594.0	15106.3	14850.7	13203.3
62.5°	7147.1	7269.8	7893.4	9336.3	11588.2	14051.9	16014.6	16134.3	15754.7	15402.7	13416.6
63°	6820.0	6780.6	7439.2	8889.4	11269.8	13781.7	16020.5	16172.3	15783.9	15455.3	13358.2
65°	5048.5	5166.9	5594.8	7009.9	9378.6	12524.3	15659.8	15928.5	15675.8	15223.1	12711.2
67.5°	2834.6	2828.7	3301.9	4587.0	6564.4	9824.1	14159.9	14728.0	14675.5	13660.5	10536.7
70°	1387.4	1409.2	1603.5	2377.5	3807.3	6777.6	11766.4	12379.7	12398.7	10729.4	7285.9
72.5°	628.0	638.2	776.9	1158.1	1957.0	3608.6	8108.0	8693.7	8585.6	6837.5	4023.4
75°	331.5	353.4	427.9	582.7	943.4	1488.2	4410.4	4977.0	4750.6	3123.8	1480.8
77.5°	245.3	252.7	290.6	370.9	505.3	579.8	1902.9	2263.6	2120.5	1130.3	490.7
80°	179.6	185.5	216.1	262.9	318.4	295.0	717.1	822.2	737.5	384.1	150.4
82.5°	109.5	111.0	157.7	195.7	200.1	165.1	236.5	254.1	265.8	216.1	81.7
85°	39.5	49.6	106.6	141.6	118.3	83.2	99.3	109.5	119.7	137.3	48.2
87.5°	4.4	5.9	51.1	68.7	33.6	30.7	36.5	40.9	43.8	51.1	23.3
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°	2171.6	2171.6	2171.6	2171.6	2171.6	2171.6	2171.6	2171.6	2171.6	2171.6	2171.6
2.5°	2184.7	2190.6	2186.2	2178.9	2177.4	2173.1	2164.3	2164.3	2164.3	2167.2	2164.3
5°	2216.9	2221.2	2211.0	2196.4	2180.3	2159.9	2138.0	2124.8	2123.4	2120.5	2113.2
7.5°	2278.2	2284.0	2260.7	2225.6	2181.8	2132.2	2085.4	2041.6	2021.2	2005.1	2005.1
10°	2367.3	2373.1	2326.4	2263.6	2176.0	2075.2	1964.2	1863.5	1784.6	1748.0	1739.4
12.5°	2473.9	2476.8	2399.4	2289.9	2145.3	1951.1	1714.5	1494.0	1340.7	1270.6	1263.2
15°	2590.7	2570.3	2468.1	2300.1	2057.7	1695.5	1286.6	1016.4	857.2	810.5	828.0
17.5°	2709.0	2671.0	2520.6	2284.0	1860.6	1286.6	864.6	693.7	644.0	630.9	630.9
20°	2820.0	2767.4	2558.6	2213.9	1518.8	886.4	641.1	600.2	591.5	582.7	584.1
22.5°	2931.0	2850.7	2592.2	2057.7	1131.8	633.8	573.9	560.8	549.1	537.5	536.0
25°	3039.1	2928.1	2605.4	1768.6	771.1	544.7	524.3	506.8	483.4	470.3	467.3
27.5°	3151.5	3021.5	2596.6	1403.4	562.3	487.8	467.3	442.5	414.8	391.4	391.4
30°	3367.7	3199.7	2565.9	1009.1	473.2	429.3	403.1	363.6	332.9	309.6	308.1
32.5°	3662.6	3431.9	2460.7	709.7	420.6	378.3	338.8	295.0	262.9	245.3	245.3
35°	3925.5	3665.6	2263.6	522.8	378.3	328.6	280.4	238.0	213.2	201.5	197.2
37.5°	4325.7	4007.3	1992.0	424.9	337.3	284.8	235.1	195.7	175.2	166.5	166.5
40°	4925.9	4425.0	1659.0	372.4	297.9	242.4	195.7	165.1	148.9	138.7	138.7
42.5°	5670.7	4936.1	1321.6	334.4	261.4	208.8	163.6	140.2	125.6	118.3	116.8
45°	6608.3	5475.0	1017.9	299.3	232.2	178.1	138.7	118.3	103.7	99.3	100.8
47.5°	7586.7	5949.6	788.6	268.7	201.5	150.4	118.3	102.3	92.0	86.1	86.1
50°	8422.0	6276.8	598.8	233.6	178.1	127.1	103.7	92.0	83.2	80.3	78.8
52.5°	9120.1	6371.7	458.5	203.0	156.3	109.5	92.0	83.2	76.0	71.6	71.6
55°	9714.5	6288.4	359.2	170.9	131.5	94.9	81.7	74.5	65.7	61.3	59.9
57.5°	10062.1	6021.2	274.5	141.6	106.6	78.8	71.6	62.8	52.5	45.3	45.3
60°	10237.3	5632.7	210.3	116.8	81.7	62.8	58.4	46.7	36.5	30.7	29.2
62.5°	10027.0	5117.2	159.2	92.0	61.3	46.7	39.5	33.6	23.3	17.5	17.5
63°	9897.0	4968.2	153.3	87.6	56.9	43.8	36.5	30.7	20.4	16.1	14.6
65°	9022.3	4318.4	125.6	70.1	45.3	30.7	24.8	21.9	14.6	7.3	5.9
67.5°	7164.7	3303.4	99.3	52.5	32.1	21.9	14.6	13.2	4.4	0.0	0.0
70°	4844.1	2133.6	77.4	38.0	21.9	13.2	7.3	5.9	1.5	0.0	0.0
72.5°	2526.5	1093.9	59.9	27.7	13.2	8.8	4.4	1.5	0.0	0.0	0.0
75°	893.8	372.4	43.8	17.5	8.8	4.4	1.5	0.0	0.0	0.0	0.0
77.5°	270.1	138.7	27.7	13.2	5.9	2.9	0.0	0.0	0.0	0.0	0.0
80°	94.9	51.1	16.1	8.8	4.4	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	46.7	24.8	10.3	7.3	4.4	1.5	0.0	0.0	0.0	0.0	0.0
85°	26.3	16.1	8.8	7.3	4.4	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	18.9	11.7	8.8	7.3	5.9	2.9	1.5	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)