

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: P191100

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191100  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-02-LED-E1-SL2-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13388.4 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G3

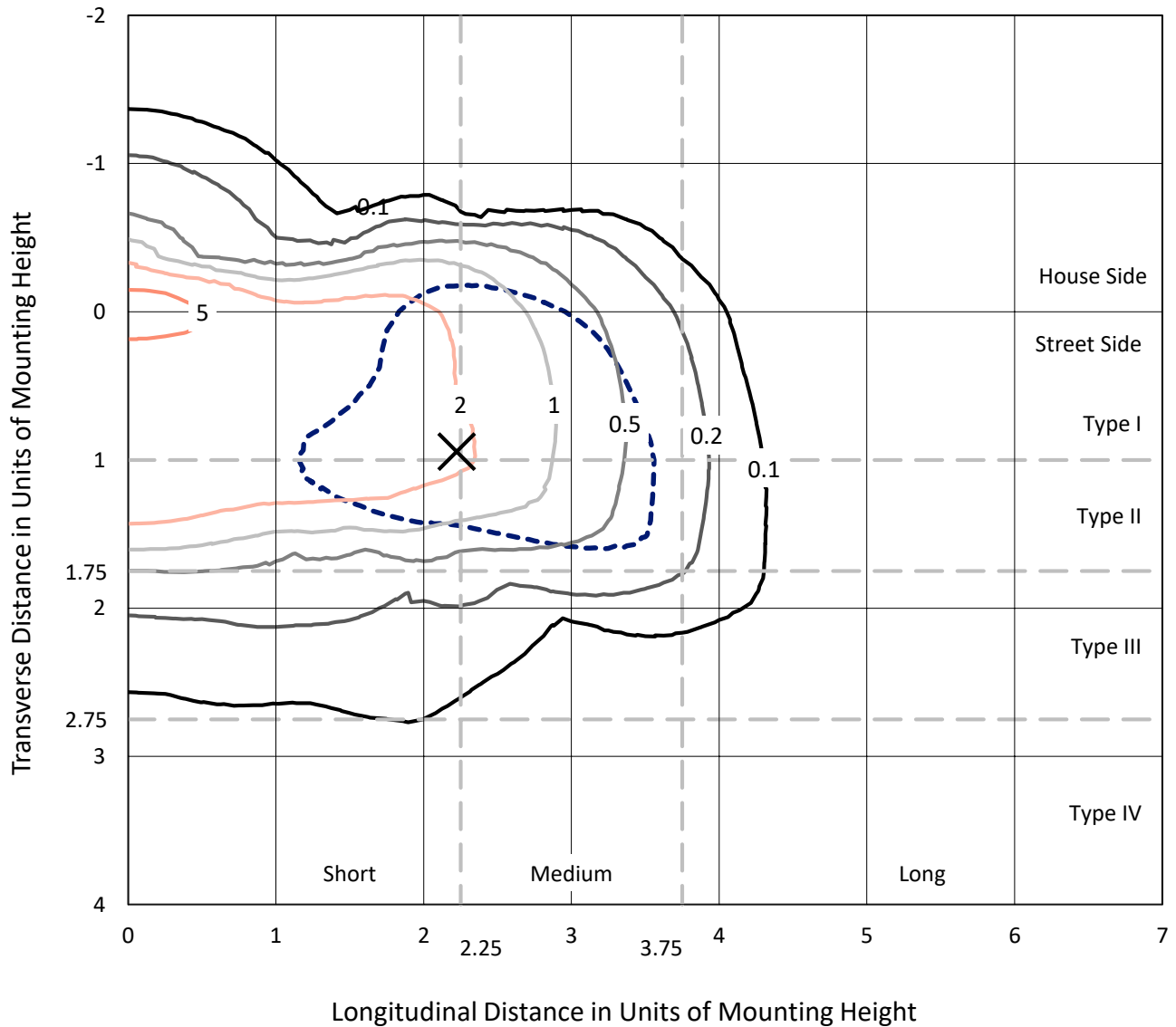
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

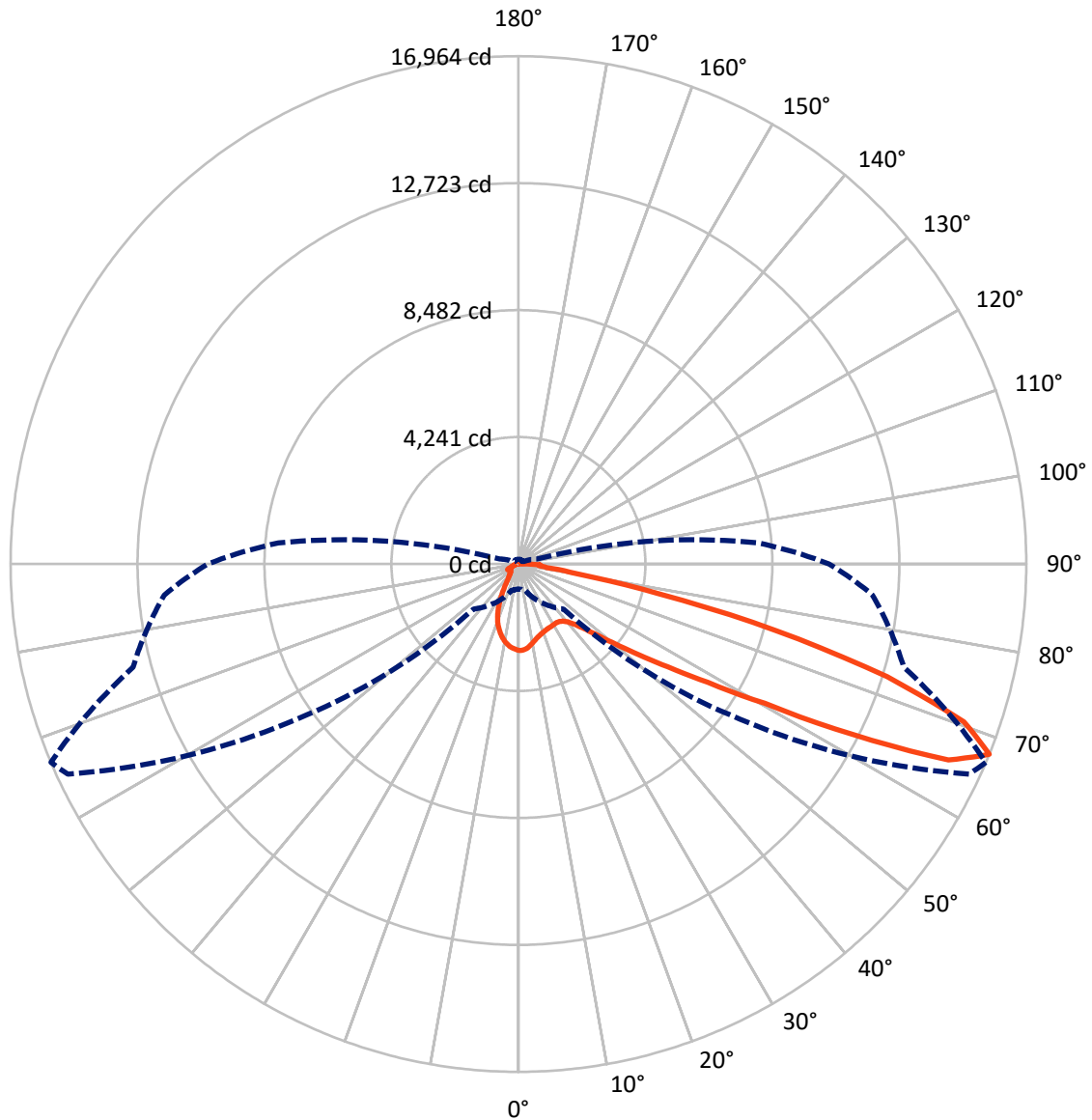
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.2 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2218.3	0.0	2218.3
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	11170.1	0.0	11170.1
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	13388.4	0.0	13388.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.4	1.8
10°-20°	570.1	4.3
20°-30°	772.7	5.8
30°-40°	1098.5	8.2
40°-50°	1837.9	13.7
50°-60°	2907.6	21.7
60°-70°	3703.9	27.7
70°-80°	1940.1	14.5
80°-90°	311.2	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°	13388.4	100.0
0°-180°	13388.4	100.0



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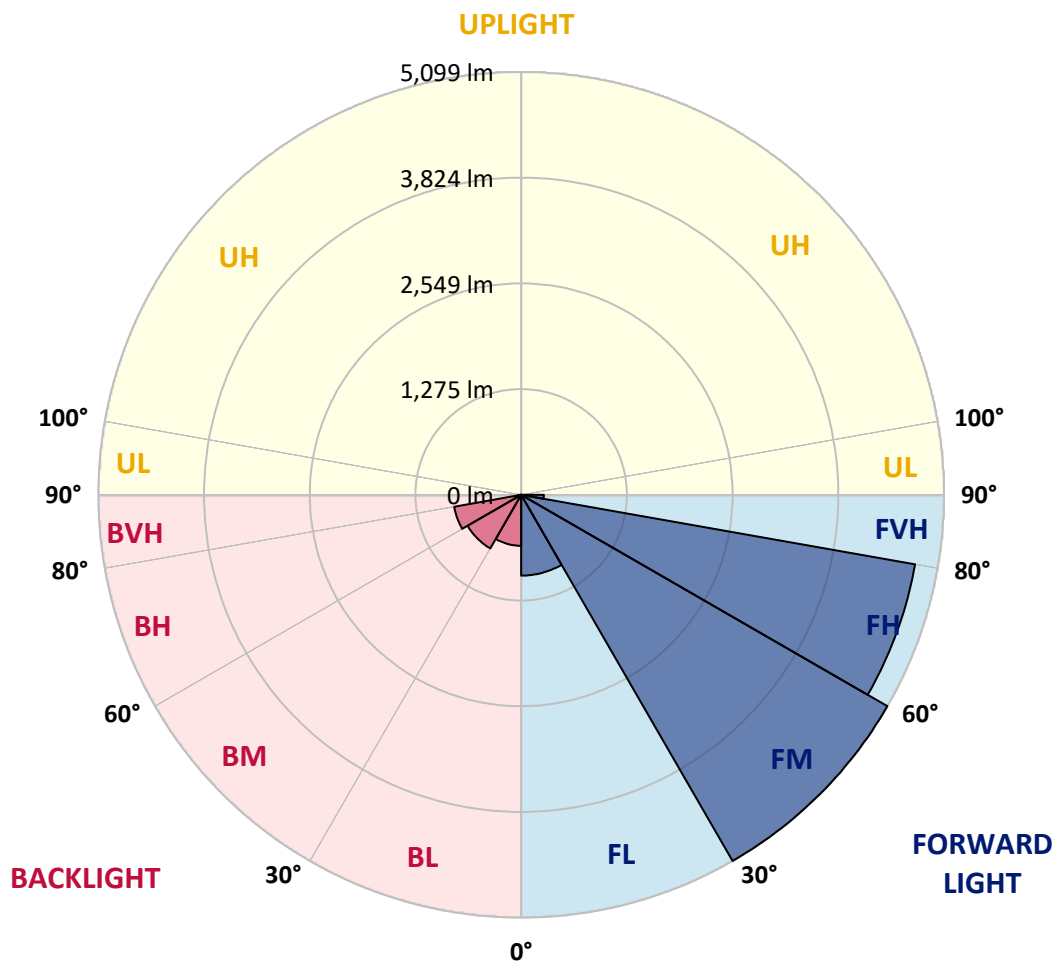
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	974.4	7.3			
FM	(30°-60°)	5098.6	38.1			
FH	(60°-80°)	4823.6	36.0			G2/5000
FVH	(80°-90°)	273.6	2.0			G3/500
BL	(0°-30°)	614.9	4.6	B2/1000		
BM	(30°-60°)	745.4	5.6	B1/1000		
BH	(60°-80°)	820.5	6.1	B2/1000		G2/1000
BVH	(80°-90°)	37.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8
2.5°	2769.0	2773.6	2788.2	2797.4	2839.0	2856.8	2869.4	2881.9	2883.9	2889.8	2883.9
5°	2478.5	2488.4	2515.4	2545.8	2626.4	2689.7	2756.4	2825.8	2838.3	2883.2	2895.8
7.5°	2253.4	2250.7	2273.2	2309.5	2392.0	2479.8	2596.7	2734.7	2761.8	2862.7	2911.6
10°	2089.0	2087.0	2110.8	2148.4	2227.0	2310.1	2442.2	2631.0	2669.3	2830.4	2926.8
12.5°	1967.4	1968.2	1991.9	2033.5	2113.4	2197.2	2331.3	2530.7	2579.5	2792.8	2942.6
15°	1886.9	1892.3	1911.4	1955.6	2033.5	2117.3	2248.8	2455.4	2510.2	2763.1	2960.4
17.5°	1859.8	1868.4	1875.1	1907.4	1974.1	2058.0	2186.7	2399.9	2458.0	2742.6	2976.3
20°	1885.0	1894.8	1882.3	1893.6	1935.8	2009.7	2137.9	2356.4	2415.8	2719.5	2978.3
22.5°	1992.6	2001.8	1964.9	1932.5	1929.9	1974.7	2097.6	2322.0	2383.5	2702.3	2978.9
25°	2182.1	2188.0	2125.9	2050.7	1977.4	1962.2	2069.1	2298.3	2363.6	2687.1	2966.5
27.5°	2414.5	2419.1	2347.8	2236.9	2089.6	1991.9	2059.3	2284.4	2352.4	2673.9	2945.3
30°	2697.0	2718.8	2623.1	2483.1	2268.5	2079.8	2079.0	2277.1	2339.9	2651.5	2903.6
32.5°	2986.2	2995.5	2929.4	2787.4	2509.5	2234.2	2134.5	2282.4	2336.5	2624.4	2850.9
35°	3279.4	3291.2	3248.3	3134.1	2839.0	2460.7	2242.8	2313.4	2357.0	2615.2	2813.9
37.5°	3659.0	3674.8	3615.4	3483.4	3239.8	2767.7	2423.1	2391.4	2419.7	2641.6	2802.7
40°	4259.2	4251.9	4078.2	3881.5	3678.1	3160.5	2680.5	2523.4	2539.9	2726.8	2837.1
42.5°	4957.6	4939.8	4640.7	4331.8	4160.1	3635.9	3021.2	2752.5	2749.2	2894.4	2957.9
45°	5514.9	5500.4	5231.0	4850.0	4712.7	4177.2	3461.6	3093.8	3069.4	3160.5	3181.0
47.5°	5816.6	5817.3	5662.1	5351.2	5347.9	4865.3	4027.4	3587.7	3545.4	3588.3	3566.5
50°	5710.9	5724.8	5708.4	5609.4	5927.5	5767.1	4766.2	4276.3	4191.1	4233.4	4149.5
52.5°	5200.0	5217.8	5315.5	5467.4	6171.2	6857.1	5851.6	5131.9	5032.9	5017.8	4924.7
55°	4294.1	4315.9	4515.3	4928.0	5968.5	7589.4	7564.2	6222.6	6064.9	5921.6	5882.0
57.5°	2959.8	2996.1	3317.0	3929.7	5312.9	7810.5	9603.7	7777.5	7456.6	6956.2	6965.4
60°	1668.4	1710.7	2089.0	2645.6	3989.7	7570.1	11155.2	10132.5	9455.1	8167.6	8236.4
62.5°	1061.0	1106.5	1393.8	1838.0	2394.0	6276.1	11791.0	13406.6	12546.3	9661.2	9728.5
65°	859.0	878.7	1014.2	1517.2	1738.4	3781.1	11308.4	16103.6	15782.8	11556.7	11242.3
67.5°	838.5	845.1	915.0	1273.6	1667.1	2125.3	9020.1	16608.0	16963.9	13326.7	11872.9
70°	828.6	851.7	1031.2	1215.5	1596.4	1792.5	5420.5	15225.5	15787.4	13789.6	11033.8
72.5°	402.1	400.8	518.9	1099.3	1798.4	1859.2	2784.9	12319.2	12883.0	11946.8	9066.9
75°	324.2	296.5	283.3	402.7	1729.1	1920.0	1774.7	8476.7	8884.7	8009.9	5573.6
77.5°	307.7	274.7	251.5	252.2	730.9	2036.2	1503.3	4691.6	4810.4	3618.1	1527.1
80°	254.8	224.4	208.0	234.4	353.8	1939.1	1625.5	2123.3	1948.3	888.6	508.4
82.5°	177.0	161.1	156.5	196.7	283.3	1381.9	1890.2	1140.9	956.7	445.0	313.6
85°	112.9	96.4	107.0	143.3	220.5	637.8	1947.0	889.4	707.1	282.5	177.0
87.5°	52.2	42.2	52.8	79.2	143.9	219.8	1852.6	998.9	728.2	149.2	111.6
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°	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8	2887.8
2.5°	2889.1	2876.6	2866.7	2848.2	2827.7	2808.0	2790.1	2767.7	2761.0	2755.1	2764.4
5°	2898.4	2885.8	2849.5	2792.8	2730.1	2671.3	2612.5	2562.4	2531.3	2514.1	2524.0
7.5°	2912.2	2894.4	2819.2	2714.9	2602.0	2499.0	2392.7	2307.5	2244.8	2215.1	2223.7
10°	2924.8	2890.4	2767.7	2611.2	2446.2	2292.9	2125.3	1986.7	1883.7	1829.4	1842.7
12.5°	2930.1	2875.3	2695.7	2481.8	2255.3	2030.9	1783.9	1576.7	1428.8	1374.6	1363.4
15°	2935.4	2858.1	2616.5	2334.6	2024.9	1707.3	1361.3	1113.2	990.3	963.3	957.4
17.5°	2936.7	2828.5	2526.7	2174.8	1754.9	1322.5	930.9	773.1	773.8	817.3	822.7
20°	2922.9	2784.2	2417.7	1976.0	1431.4	914.4	639.1	612.0	711.8	820.7	833.9
22.5°	2891.2	2725.4	2294.3	1744.3	1061.0	602.1	494.5	524.3	652.9	786.3	801.5
25°	2850.9	2654.1	2148.4	1475.6	702.5	430.5	414.6	450.9	538.1	627.2	635.8
27.5°	2796.0	2569.7	1984.6	1167.9	456.2	354.6	365.1	389.5	425.1	464.8	468.7
30°	2725.4	2468.6	1809.7	851.7	344.6	318.9	334.1	347.3	362.4	384.9	386.9
32.5°	2644.2	2371.5	1630.1	588.3	305.7	300.4	312.3	318.9	330.8	344.6	346.0
35°	2576.2	2279.1	1443.9	415.9	289.2	286.5	294.5	297.1	308.3	323.6	324.8
37.5°	2537.2	2203.8	1251.8	335.4	277.9	273.9	278.7	278.7	294.5	316.9	320.2
40°	2539.9	2162.2	1059.7	303.0	268.7	263.4	264.1	264.1	284.6	309.0	311.0
42.5°	2611.9	2172.8	889.4	290.5	261.5	255.5	252.2	254.2	271.4	287.2	288.5
45°	2780.9	2247.4	729.6	282.5	254.2	252.2	244.9	244.3	250.9	258.2	258.2
47.5°	3058.2	2394.6	621.2	277.3	248.3	247.6	239.0	230.5	229.8	232.4	232.4
50°	3509.1	2648.2	548.6	271.4	244.3	239.0	229.1	215.9	211.2	213.3	213.3
52.5°	4185.2	3100.5	520.9	263.4	235.7	227.1	215.9	202.6	198.8	199.4	199.4
55°	5071.9	3795.0	517.0	254.2	226.5	212.6	203.4	193.4	188.8	190.2	190.2
57.5°	6155.3	4755.6	587.6	239.7	213.9	198.0	192.8	186.2	182.9	184.8	184.2
60°	7472.5	6012.7	871.5	224.4	201.4	184.8	184.8	179.6	177.0	178.9	178.3
62.5°	8989.7	7456.6	1225.4	213.3	188.1	174.3	177.0	174.3	171.7	173.0	172.4
65°	10335.2	8397.4	1147.4	204.7	174.9	164.4	169.0	167.7	165.7	167.0	166.3
67.5°	10374.2	8048.9	644.4	195.4	162.4	154.5	161.1	160.4	159.1	160.4	159.8
70°	9258.4	6796.4	363.1	178.3	149.2	142.6	151.8	151.2	149.9	152.5	151.8
72.5°	7417.6	4932.0	265.5	157.1	136.1	130.0	140.7	139.9	139.9	143.9	142.0
75°	4268.4	2537.9	212.0	134.7	122.1	117.5	126.7	127.5	128.8	134.0	130.0
77.5°	1216.8	790.9	173.0	114.3	105.0	103.0	112.2	113.5	114.3	120.2	114.9
80°	452.2	364.5	142.6	95.7	85.8	86.4	95.0	97.1	97.7	103.6	97.1
82.5°	288.5	240.3	115.5	74.0	67.3	66.7	77.2	79.9	79.9	80.5	76.6
85°	168.4	143.9	87.2	53.5	47.6	45.5	57.5	62.1	60.0	58.7	56.2
87.5°	112.9	99.0	53.5	29.7	25.8	24.4	33.7	36.9	35.7	33.7	31.7
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)