

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: P193631

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193631  
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-03-LED-E1-SL2-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 1050mA 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: 14527 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G3

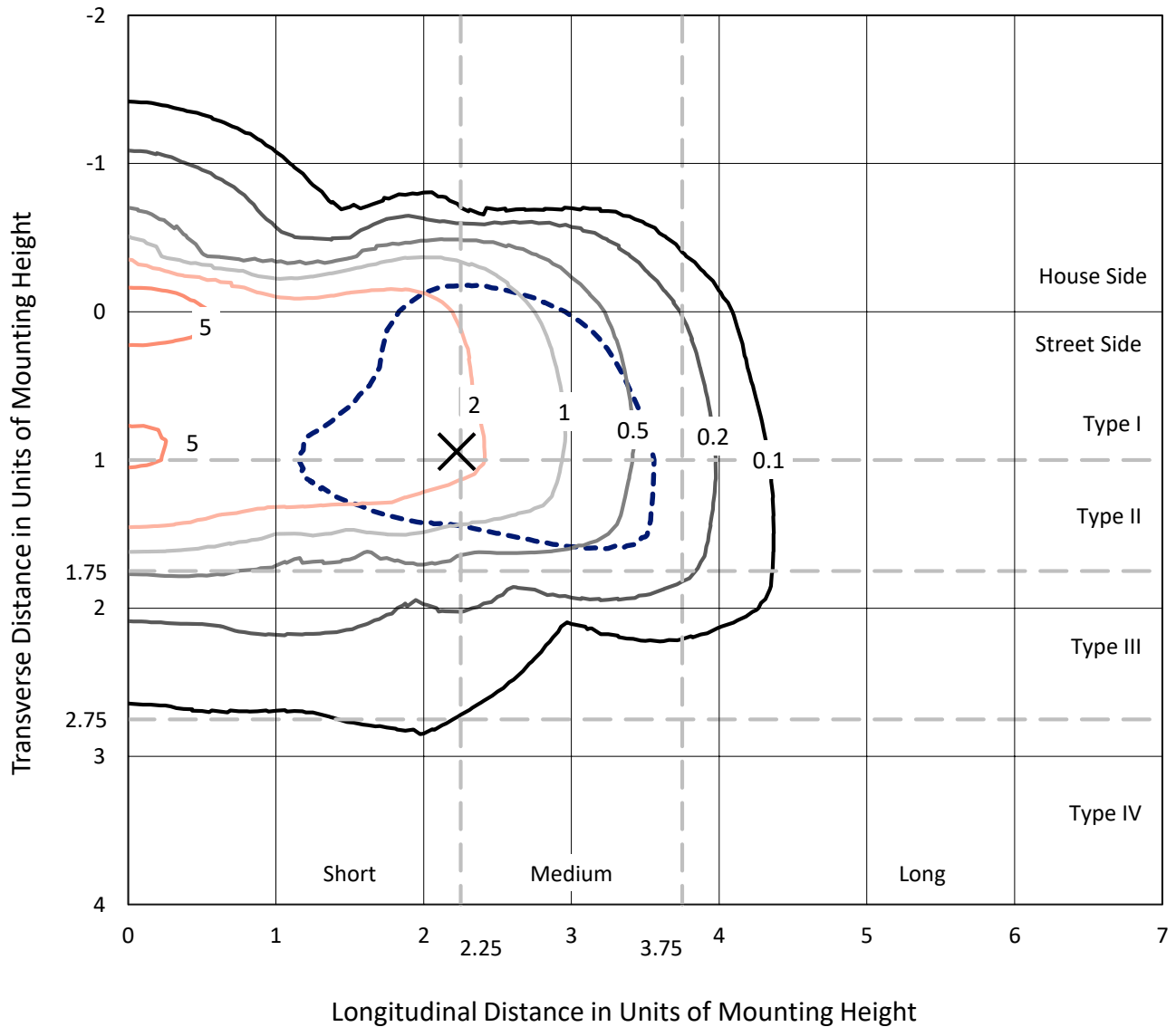
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

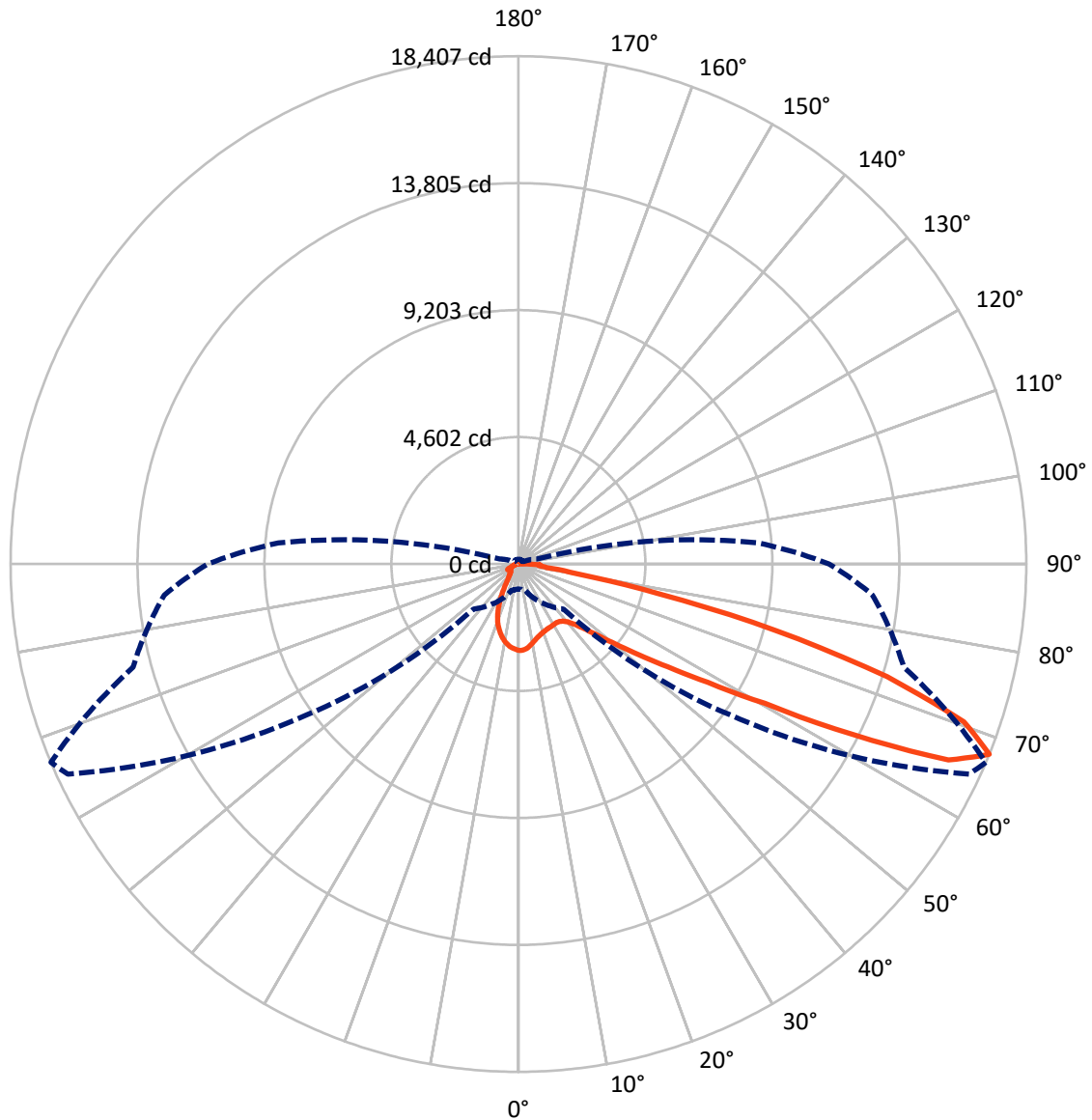
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 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	2407.0	0.0	2407.0
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	12120.0	0.0	12120.0
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	14527.0	0.0	14527.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.3	1.8
10°-20°	618.6	4.3
20°-30°	838.5	5.8
30°-40°	1192.0	8.2
40°-50°	1994.2	13.7
50°-60°	3154.8	21.7
60°-70°	4018.9	27.7
70°-80°	2105.1	14.5
80°-90°	337.6	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°	14527.0	100.0
0°-180°	14527.0	100.0



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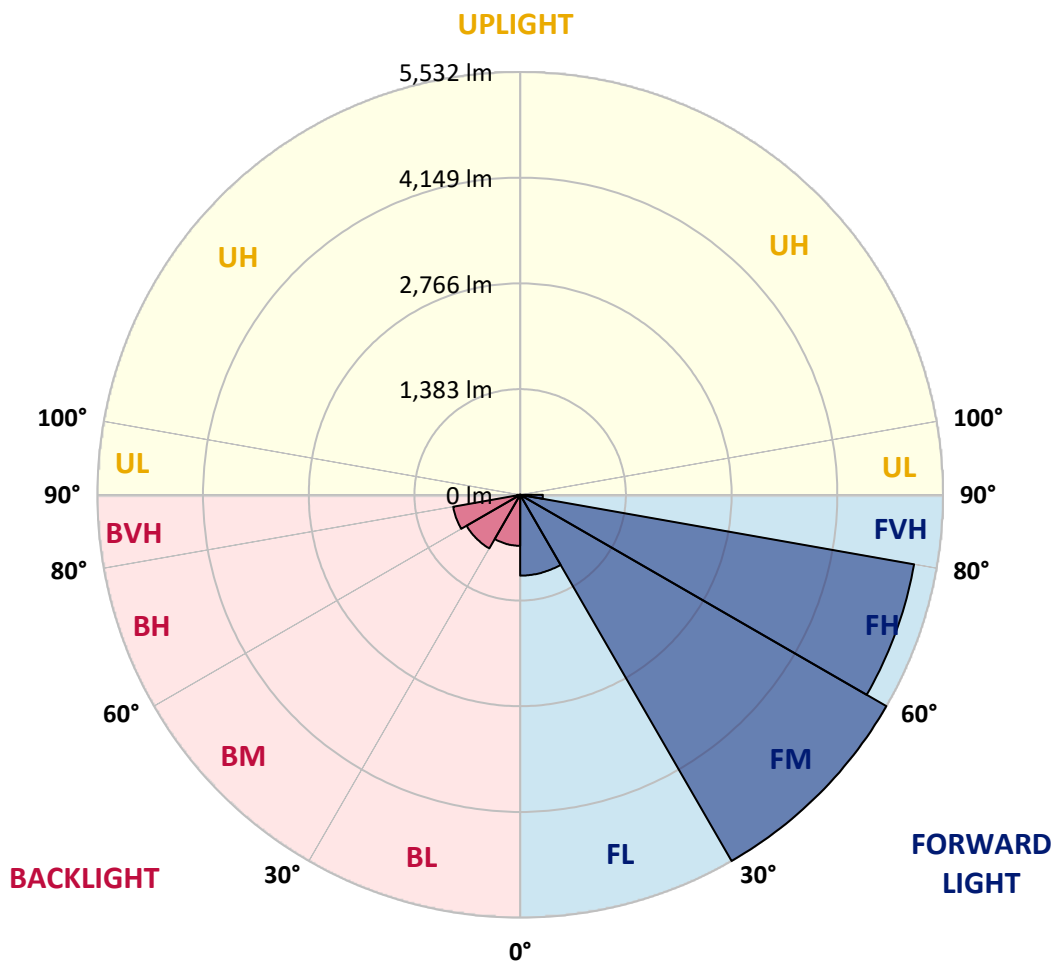
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1057.2	7.3			
FM (30°-60°)	5532.2	38.1			
FH (60°-80°)	5233.8	36.0			G3/7500
FVH (80°-90°)	296.9	2.0			G3/500
BL (0°-30°)	667.1	4.6	B2/1000		
BM (30°-60°)	808.8	5.6	B1/1000		
BH (60°-80°)	890.3	6.1	B2/1000		G2/1000
BVH (80°-90°)	40.7	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°	3133.4	3133.4	3133.4	3133.4	3133.4	3133.4	3133.4	3133.4	3133.4	3133.4	3133.4
2.5°	3004.5	3009.5	3025.3	3035.3	3080.4	3099.8	3113.4	3127.0	3129.1	3135.6	3129.1
5°	2689.3	2700.0	2729.4	2762.4	2849.8	2918.5	2990.9	3066.1	3079.7	3128.4	3142.0
7.5°	2445.0	2442.1	2466.5	2505.9	2595.4	2690.7	2817.5	2967.2	2996.6	3106.2	3159.2
10°	2266.6	2264.5	2290.3	2331.1	2416.3	2506.6	2649.9	2854.8	2896.3	3071.1	3175.7
12.5°	2134.8	2135.5	2161.3	2206.4	2293.1	2384.1	2529.5	2745.9	2798.9	3030.3	3192.9
15°	2047.4	2053.1	2073.9	2121.9	2206.4	2297.4	2440.0	2664.2	2723.7	2998.0	3212.2
17.5°	2018.0	2027.4	2034.5	2069.6	2142.0	2233.0	2372.6	2604.0	2667.1	2975.8	3229.4
20°	2045.3	2056.0	2042.4	2054.6	2100.4	2180.7	2319.6	2556.8	2621.2	2950.8	3231.6
22.5°	2162.0	2172.1	2131.9	2096.8	2094.0	2142.7	2275.9	2519.5	2586.1	2932.1	3232.3
25°	2367.6	2374.1	2306.7	2225.1	2145.6	2129.1	2245.1	2493.7	2564.6	2915.7	3218.7
27.5°	2619.8	2624.8	2547.4	2427.1	2267.3	2161.3	2234.4	2478.7	2552.5	2901.3	3195.8
30°	2926.4	2950.0	2846.2	2694.3	2461.5	2256.6	2255.9	2470.8	2538.8	2877.0	3150.6
32.5°	3240.2	3250.2	3178.6	3024.5	2723.0	2424.2	2316.1	2476.5	2535.3	2847.6	3093.3
35°	3558.3	3571.1	3524.6	3400.6	3080.4	2669.9	2433.5	2510.2	2557.5	2837.6	3053.2
37.5°	3970.2	3987.4	3922.9	3779.6	3515.3	3003.1	2629.1	2594.7	2625.5	2866.2	3041.0
40°	4621.4	4613.5	4425.1	4211.6	3990.9	3429.3	2908.5	2738.0	2755.9	2958.6	3078.3
42.5°	5379.3	5359.9	5035.4	4700.2	4513.9	3945.1	3278.1	2986.6	2983.0	3140.6	3209.4
45°	5983.9	5968.1	5675.9	5262.5	5113.5	4532.5	3756.0	3356.9	3330.4	3429.3	3451.5
47.5°	6311.3	6312.0	6143.7	5806.2	5802.7	5279.0	4369.9	3892.8	3847.0	3893.5	3869.9
50°	6196.7	6211.7	6193.8	6086.3	6431.6	6257.6	5171.5	4640.0	4547.6	4593.4	4502.4
52.5°	5642.2	5661.5	5767.6	5932.3	6696.0	7440.3	6349.3	5568.4	5461.0	5444.5	5343.5
55°	4659.3	4683.0	4899.3	5347.0	6476.1	8234.8	8207.5	6751.9	6580.7	6425.2	6382.2
57.5°	3211.5	3250.9	3599.1	4263.9	5764.7	8474.8	10420.4	8438.9	8090.8	7547.8	7557.8
60°	1810.3	1856.1	2266.6	2870.5	4329.1	8214.0	12103.9	10994.3	10259.3	8862.3	8936.8
62.5°	1151.2	1200.6	1512.3	1994.4	2597.6	6809.9	12793.8	14546.8	13613.3	10482.8	10555.8
65°	932.0	953.5	1100.4	1646.2	1886.2	4102.7	12270.1	17473.2	17125.0	12539.5	12198.5
67.5°	909.8	917.0	992.9	1381.9	1808.9	2306.0	9787.2	18020.5	18406.6	14460.1	12882.6
70°	899.1	924.1	1119.0	1318.9	1732.2	1945.0	5881.5	16520.4	17130.0	14962.3	11972.1
72.5°	436.3	434.8	563.1	1192.8	1951.4	2017.3	3021.7	13366.9	13978.7	12962.9	9838.0
75°	351.7	321.7	307.3	437.0	1876.2	2083.2	1925.6	9197.6	9640.3	8691.1	6047.7
77.5°	333.8	298.0	272.9	273.7	793.0	2209.3	1631.2	5090.6	5219.5	3925.8	1657.0
80°	276.5	243.6	225.7	254.3	384.0	2104.0	1763.7	2303.9	2114.0	964.2	551.6
82.5°	192.0	174.8	169.8	213.5	307.3	1499.4	2051.0	1237.9	1038.0	482.8	340.3
85°	122.5	104.6	116.1	155.5	239.3	692.0	2112.6	965.0	767.2	306.6	192.0
87.5°	56.6	45.8	57.3	86.0	156.2	238.6	2010.2	1083.9	790.2	161.9	121.1
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°	3133.4	3133.4	3133.4	3133.4	3133.4	3133.4	3133.4	3133.4	3133.4	3133.4	3133.4
2.5°	3134.9	3121.3	3110.5	3090.5	3068.2	3046.8	3027.4	3003.1	2995.9	2989.4	2999.5
5°	3144.9	3131.3	3091.9	3030.3	2962.2	2898.5	2834.7	2780.3	2746.6	2728.0	2738.7
7.5°	3159.9	3140.6	3058.9	2945.7	2823.2	2711.5	2596.2	2503.7	2435.7	2403.4	2412.8
10°	3173.6	3136.3	3003.1	2833.3	2654.2	2488.0	2306.0	2155.6	2043.8	1985.1	1999.4
12.5°	3179.3	3119.8	2925.0	2692.9	2447.1	2203.6	1935.7	1710.7	1550.2	1491.5	1479.3
15°	3185.0	3101.2	2839.0	2533.1	2197.1	1852.6	1477.2	1207.8	1074.6	1045.2	1038.7
17.5°	3186.5	3069.0	2741.6	2359.7	1904.1	1434.9	1010.1	838.9	839.6	886.9	892.6
20°	3171.4	3021.0	2623.4	2144.1	1553.1	992.2	693.5	664.1	772.3	890.5	904.8
22.5°	3137.0	2957.2	2489.4	1892.7	1151.2	653.3	536.6	568.8	708.5	853.2	869.7
25°	3093.3	2879.8	2331.1	1601.1	762.2	467.1	449.9	489.3	583.8	680.6	689.9
27.5°	3033.9	2788.1	2153.4	1267.3	495.0	384.7	396.2	422.7	461.3	504.3	508.6
30°	2957.2	2678.5	1963.6	924.1	373.9	346.0	362.5	376.8	393.3	417.6	419.8
32.5°	2869.1	2573.2	1768.7	638.3	331.7	326.0	338.8	346.0	358.9	373.9	375.4
35°	2795.3	2472.9	1566.7	451.3	313.8	310.9	319.5	322.4	334.5	351.0	352.5
37.5°	2753.0	2391.3	1358.3	363.9	301.6	297.3	302.3	302.3	319.5	343.9	347.4
40°	2755.9	2346.1	1149.8	328.8	291.6	285.8	286.6	286.6	308.8	335.3	337.4
42.5°	2834.0	2357.6	965.0	315.2	283.7	277.2	273.7	275.8	294.4	311.6	313.1
45°	3017.4	2438.6	791.6	306.6	275.8	273.7	265.8	265.1	272.2	280.1	280.1
47.5°	3318.3	2598.3	674.1	300.9	269.4	268.6	259.3	250.0	249.3	252.2	252.2
50°	3807.6	2873.4	595.3	294.4	265.1	259.3	248.6	234.3	229.2	231.4	231.4
52.5°	4541.1	3364.1	565.2	285.8	255.7	246.4	234.3	219.9	215.6	216.3	216.3
55°	5503.2	4117.7	560.9	275.8	245.7	230.7	220.6	209.9	204.9	206.3	206.3
57.5°	6678.8	5160.1	637.6	260.0	232.1	214.9	209.2	202.0	198.4	200.6	199.9
60°	8108.0	6524.1	945.6	243.6	218.5	200.6	200.6	194.9	192.0	194.1	193.4
62.5°	9754.2	8090.8	1329.6	231.4	204.2	189.1	192.0	189.1	186.3	187.7	187.0
65°	11214.2	9111.6	1245.1	222.1	189.8	178.4	183.4	182.0	179.8	181.2	180.5
67.5°	11256.5	8733.4	699.2	212.0	176.2	167.6	174.8	174.1	172.6	174.1	173.4
70°	10045.8	7374.4	394.0	193.4	161.9	154.7	164.8	164.1	162.6	165.5	164.8
72.5°	8048.5	5351.3	288.0	170.5	147.6	141.1	152.6	151.9	151.9	156.2	154.0
75°	4631.4	2753.8	230.0	146.1	132.5	127.5	137.5	138.3	139.7	145.4	141.1
77.5°	1320.3	858.2	187.7	123.9	113.9	111.8	121.8	123.2	123.9	130.4	124.6
80°	490.7	395.4	154.7	103.9	93.1	93.8	103.2	105.3	106.0	112.5	105.3
82.5°	313.1	260.8	125.4	80.2	73.1	72.4	83.8	86.7	86.7	87.4	83.1
85°	182.7	156.2	94.6	58.0	51.6	49.4	62.3	67.3	65.2	63.8	60.9
87.5°	122.5	107.5	58.0	32.2	27.9	26.5	36.5	40.1	38.7	36.5	34.4
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)