

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: P269226

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269226  
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-04-LED-E1-SL2-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 615mA 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: 13464.9 lumens  
Efficiency: N/A  
Efficacy: 104.4 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): 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

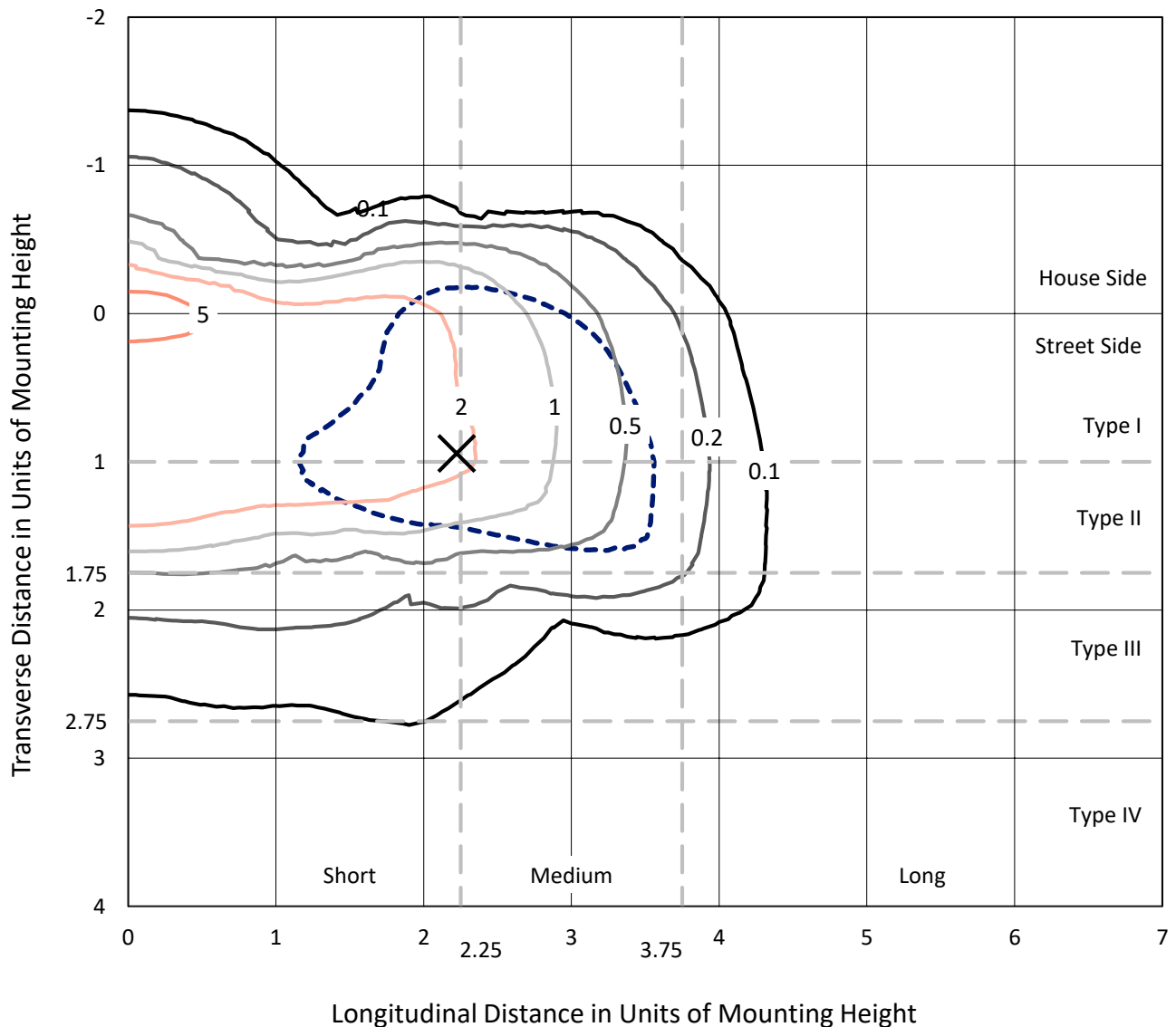


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### Iso-Footcandle Lines of Horizontal Illumination

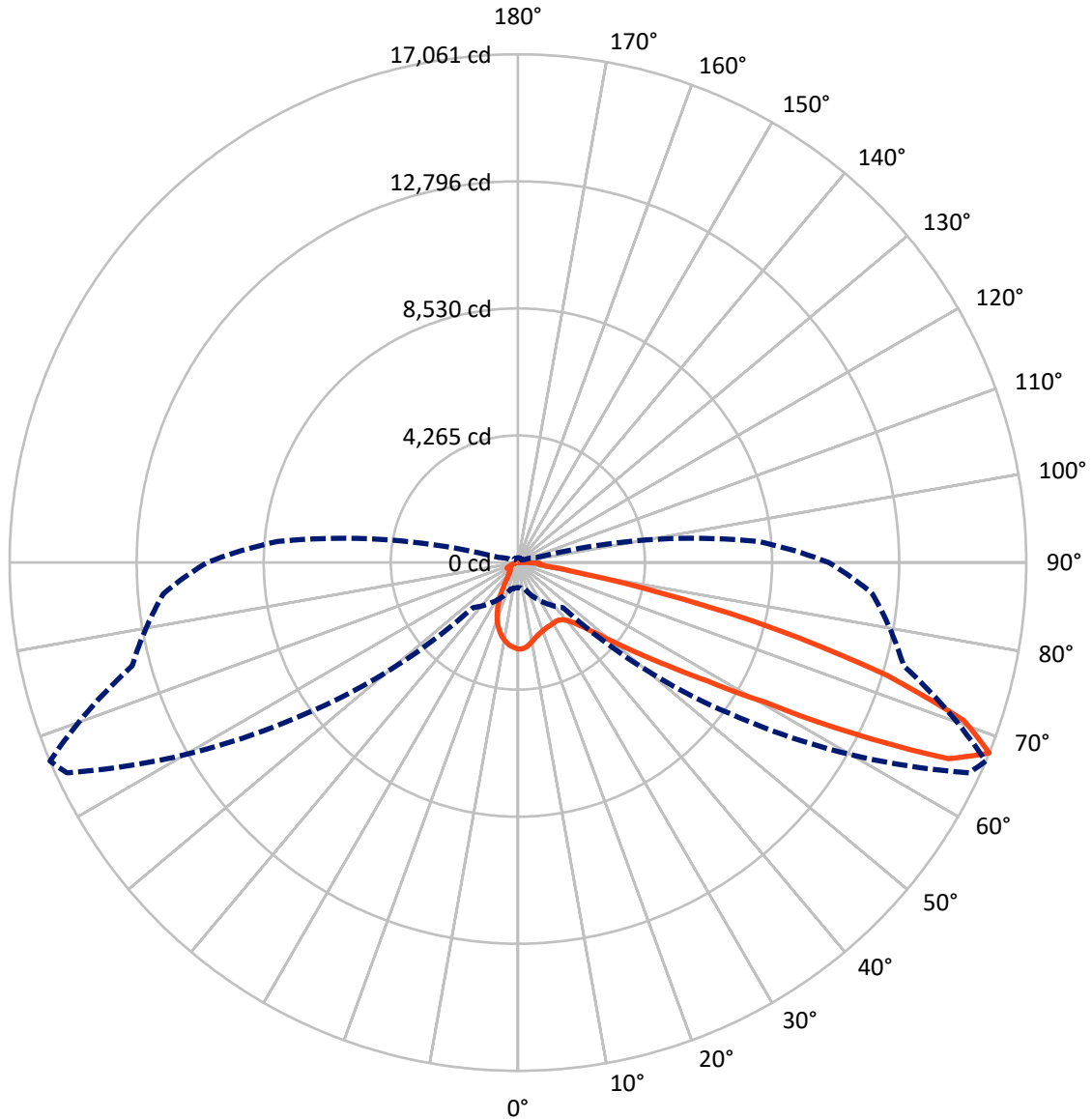
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.3 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	2231.0	0.0	2231.0
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	11233.9	0.0	11233.9
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	13464.9	0.0	13464.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.8	1.8
10°-20°	573.3	4.3
20°-30°	777.2	5.8
30°-40°	1104.8	8.2
40°-50°	1848.4	13.7
50°-60°	2924.2	21.7
60°-70°	3725.1	27.7
70°-80°	1951.2	14.5
80°-90°	313.0	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°	13464.9	100.0
0°-180°	13464.9	100.0



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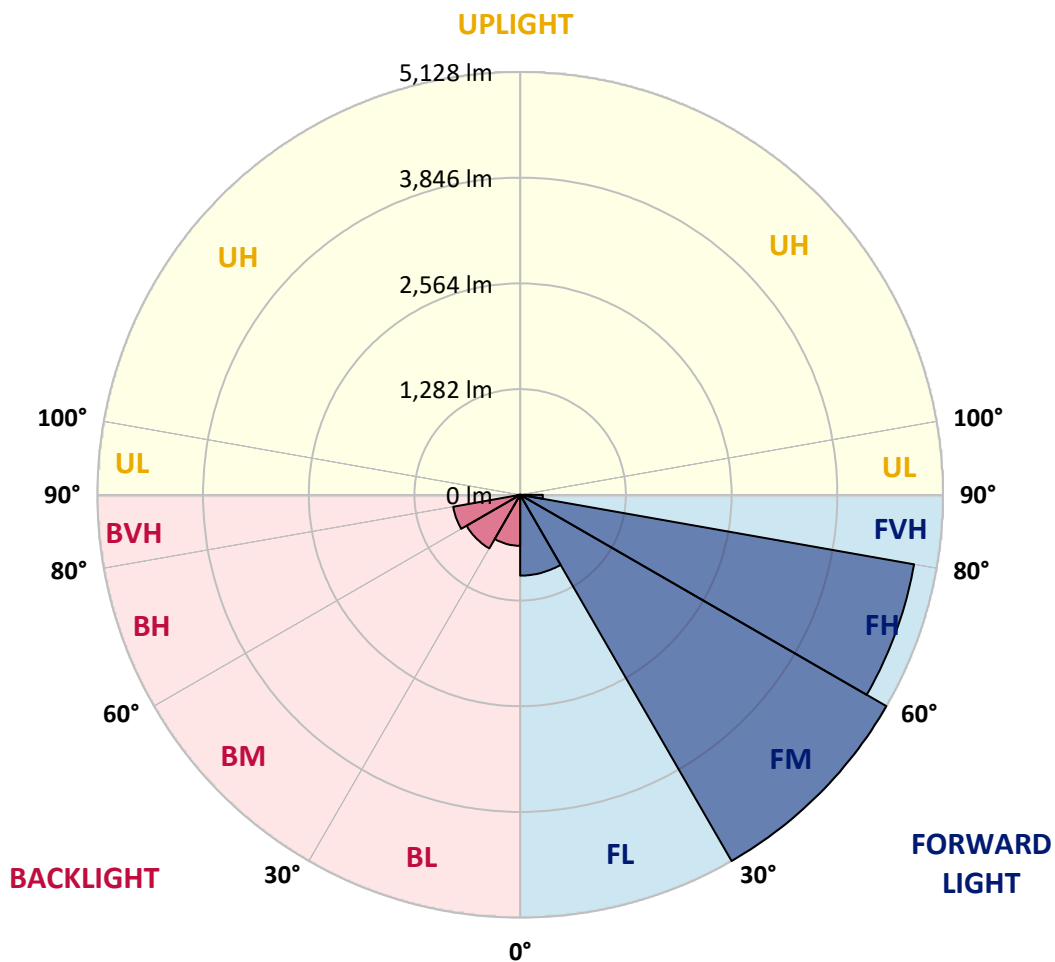
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	979.9	7.3			
FM (30°-60°)	5127.7	38.1			
FH (60°-80°)	4851.1	36.0			G2/5000
FVH (80°-90°)	275.2	2.0			G3/500
BL (0°-30°)	618.4	4.6	B2/1000		
BM (30°-60°)	749.7	5.6	B1/1000		
BH (60°-80°)	825.2	6.1	B2/1000		G2/1000
BVH (80°-90°)	37.8	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°	2904.4	2904.4	2904.4	2904.4	2904.4	2904.4	2904.4	2904.4	2904.4	2904.4	2904.4
2.5°	2784.8	2789.4	2804.1	2813.4	2855.3	2873.1	2885.7	2898.4	2900.4	2906.3	2900.4
5°	2492.6	2502.7	2529.8	2560.3	2641.3	2705.2	2772.2	2842.0	2854.5	2899.6	2912.3
7.5°	2266.2	2263.5	2286.1	2322.7	2405.8	2494.1	2611.6	2750.3	2777.5	2879.1	2928.2
10°	2100.9	2098.9	2122.9	2160.7	2239.7	2323.3	2456.1	2646.0	2684.6	2846.5	2943.6
12.5°	1978.7	1979.3	2003.3	2045.1	2125.5	2209.8	2344.5	2545.2	2594.2	2808.7	2959.5
15°	1897.7	1903.0	1922.4	1966.7	2045.1	2129.4	2261.7	2469.4	2524.5	2778.8	2977.4
17.5°	1870.5	1879.2	1885.8	1918.3	1985.3	2069.8	2199.2	2413.7	2472.0	2758.2	2993.3
20°	1895.8	1905.7	1893.1	1904.3	1946.8	2021.2	2150.1	2369.8	2429.6	2735.0	2995.3
22.5°	2003.9	2013.2	1976.1	1943.6	1940.9	1986.1	2109.5	2335.4	2397.0	2717.7	2995.9
25°	2194.5	2200.5	2138.1	2062.4	1988.7	1973.4	2081.1	2311.3	2377.2	2702.6	2983.5
27.5°	2428.3	2432.9	2361.3	2249.6	2101.6	2003.3	2071.0	2297.4	2365.9	2689.3	2962.2
30°	2712.4	2734.4	2638.1	2497.3	2281.5	2091.7	2091.0	2290.1	2353.2	2666.7	2920.3
32.5°	3003.4	3012.6	2946.3	2803.4	2523.9	2247.0	2146.7	2295.4	2349.8	2639.4	2867.2
35°	3298.0	3310.1	3266.9	3152.1	2855.3	2474.7	2255.6	2326.7	2370.4	2630.1	2830.0
37.5°	3679.8	3695.8	3636.1	3503.3	3258.2	2783.5	2436.9	2405.0	2433.6	2656.6	2818.7
40°	4283.5	4276.2	4101.5	3903.7	3699.2	3178.7	2695.9	2537.8	2554.4	2742.3	2853.2
42.5°	4986.0	4968.0	4667.2	4356.5	4183.9	3656.7	3038.4	2768.2	2765.0	2911.0	2974.7
45°	5546.4	5531.9	5261.0	4877.7	4739.6	4201.2	3481.4	3111.5	3086.9	3178.7	3199.1
47.5°	5849.9	5850.5	5694.4	5381.7	5378.4	4893.1	4050.5	3608.2	3565.7	3608.9	3586.9
50°	5743.7	5757.5	5741.0	5641.4	5961.4	5800.0	4793.4	4300.7	4215.0	4257.5	4173.3
52.5°	5229.8	5247.5	5346.0	5498.6	6206.5	6896.4	5885.1	5161.3	5061.7	5046.4	4952.9
55°	4318.7	4340.6	4541.1	4956.0	6002.7	7632.7	7607.4	6258.2	6099.5	5955.5	5915.6
57.5°	2976.8	3013.3	3335.9	3952.2	5343.3	7855.1	9658.5	7822.0	7499.3	6996.0	7005.3
60°	1677.9	1720.4	2100.9	2660.7	4012.5	7613.5	11219.0	10190.5	9509.2	8214.5	8283.5
62.5°	1067.0	1112.9	1401.7	1848.6	2407.6	6312.0	11858.4	13483.3	12618.1	9716.3	9784.1
65°	863.9	883.8	1019.9	1526.0	1748.3	3802.7	11373.1	16195.7	15873.1	11622.7	11306.6
67.5°	843.2	849.9	920.4	1280.9	1676.5	2137.4	9071.7	16703.1	17060.9	13402.9	11940.8
70°	833.3	856.5	1037.2	1222.5	1605.6	1802.8	5451.5	15312.6	15877.7	13868.5	11096.9
72.5°	404.3	403.1	521.9	1105.5	1808.7	1869.8	2800.7	12389.7	12956.8	12015.2	9118.8
75°	326.1	298.1	284.9	405.0	1738.9	1930.9	1784.8	8525.2	8935.5	8055.7	5605.6
77.5°	309.5	276.1	253.1	253.6	735.1	2047.7	1511.9	4718.3	4837.9	3638.8	1535.8
80°	256.2	225.7	209.1	235.7	355.9	1950.2	1634.7	2135.5	1959.5	893.8	511.2
82.5°	178.0	162.1	157.4	197.8	284.9	1389.8	1901.1	1147.3	962.2	447.5	315.5
85°	113.5	96.9	107.5	144.1	221.8	641.4	1958.1	894.4	711.2	284.3	178.0
87.5°	52.5	42.5	53.1	79.7	144.7	221.2	1863.3	1004.7	732.4	150.0	112.2
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°	2904.4	2904.4	2904.4	2904.4	2904.4	2904.4	2904.4	2904.4	2904.4	2904.4	2904.4
2.5°	2905.7	2893.1	2883.1	2864.5	2843.9	2824.0	2806.0	2783.5	2776.9	2770.9	2780.2
5°	2915.0	2902.3	2865.9	2808.7	2745.7	2686.7	2627.5	2577.0	2545.7	2528.5	2538.5
7.5°	2929.0	2911.0	2835.3	2730.4	2616.9	2513.3	2406.4	2320.7	2257.6	2227.7	2236.4
10°	2941.5	2907.1	2783.5	2626.1	2460.2	2306.0	2137.4	1998.0	1894.3	1840.0	1853.3
12.5°	2946.9	2891.7	2711.2	2496.0	2268.2	2042.4	1794.2	1585.7	1436.8	1382.4	1371.2
15°	2952.2	2874.4	2631.4	2347.9	2036.5	1717.1	1369.1	1119.5	996.0	968.8	962.9
17.5°	2953.4	2844.7	2541.1	2187.3	1764.9	1330.0	936.3	777.6	778.2	821.9	827.3
20°	2939.6	2800.0	2431.6	1987.4	1439.5	919.7	642.7	615.5	715.8	825.4	838.7
22.5°	2907.6	2741.0	2307.4	1754.3	1067.0	605.5	497.3	527.2	656.8	790.9	806.0
25°	2867.2	2669.4	2160.7	1484.1	706.4	433.0	417.1	453.6	541.1	630.8	639.5
27.5°	2812.1	2584.3	1996.0	1174.7	458.9	356.5	367.1	391.8	427.7	467.5	471.4
30°	2741.0	2482.7	1820.1	856.5	346.7	320.8	336.0	349.4	364.5	387.1	389.1
32.5°	2659.3	2385.1	1639.4	591.7	307.4	302.1	314.0	320.8	332.6	346.7	348.0
35°	2590.9	2292.1	1452.2	418.3	290.8	288.1	296.1	298.7	310.1	325.4	326.8
37.5°	2551.7	2216.5	1259.0	337.4	279.6	275.6	280.2	280.2	296.1	318.7	322.0
40°	2554.4	2174.5	1065.7	304.7	270.2	264.9	265.5	265.5	286.2	310.8	312.7
42.5°	2626.9	2185.2	894.4	292.2	262.9	256.9	253.6	255.7	272.9	288.9	290.2
45°	2796.9	2260.2	733.7	284.3	255.7	253.6	246.3	245.6	252.3	259.6	259.6
47.5°	3075.6	2408.4	624.9	278.8	249.6	249.0	240.3	231.8	231.0	233.6	233.6
50°	3529.3	2663.4	551.7	272.9	245.6	240.3	230.4	217.1	212.4	214.4	214.4
52.5°	4209.1	3118.1	523.9	264.9	237.1	228.3	217.1	203.8	199.9	200.5	200.5
55°	5100.8	3816.7	519.8	255.7	227.8	213.7	204.5	194.6	189.9	191.2	191.2
57.5°	6190.5	4782.8	590.9	241.0	215.1	199.2	193.9	187.2	184.0	185.9	185.3
60°	7515.2	6047.1	876.4	225.7	202.5	185.9	185.9	180.6	178.0	179.9	179.3
62.5°	9041.1	7499.3	1232.4	214.4	189.3	175.3	178.0	175.3	172.7	174.0	173.4
65°	10394.3	8445.4	1154.1	205.8	176.0	165.4	170.0	168.6	166.6	168.1	167.4
67.5°	10433.5	8094.8	648.0	196.5	163.3	155.3	162.1	161.3	160.0	161.3	160.6
70°	9311.3	6835.3	365.3	179.3	150.0	143.4	152.7	152.1	150.7	153.4	152.7
72.5°	7460.1	4960.1	266.9	158.0	136.8	130.9	141.5	140.8	140.8	144.7	142.8
75°	4292.8	2552.4	213.2	135.5	122.9	118.1	127.5	128.2	129.4	134.7	130.9
77.5°	1223.9	795.4	174.0	114.9	105.6	103.6	112.8	114.3	114.9	120.8	115.5
80°	454.8	366.5	143.4	96.3	86.2	87.0	95.6	97.6	98.3	104.3	97.6
82.5°	290.2	241.7	116.2	74.4	67.7	67.1	77.8	80.4	80.4	80.9	77.1
85°	169.3	144.7	87.7	53.8	47.8	45.9	57.9	62.4	60.5	59.1	56.5
87.5°	113.5	99.6	53.8	29.9	26.0	24.6	33.9	37.2	35.8	33.9	31.9
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)