

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: P194224

Luminaire Tested: **GLEON-AF-06-LED-E1-5WQ-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-5WQ-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30297 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 249
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

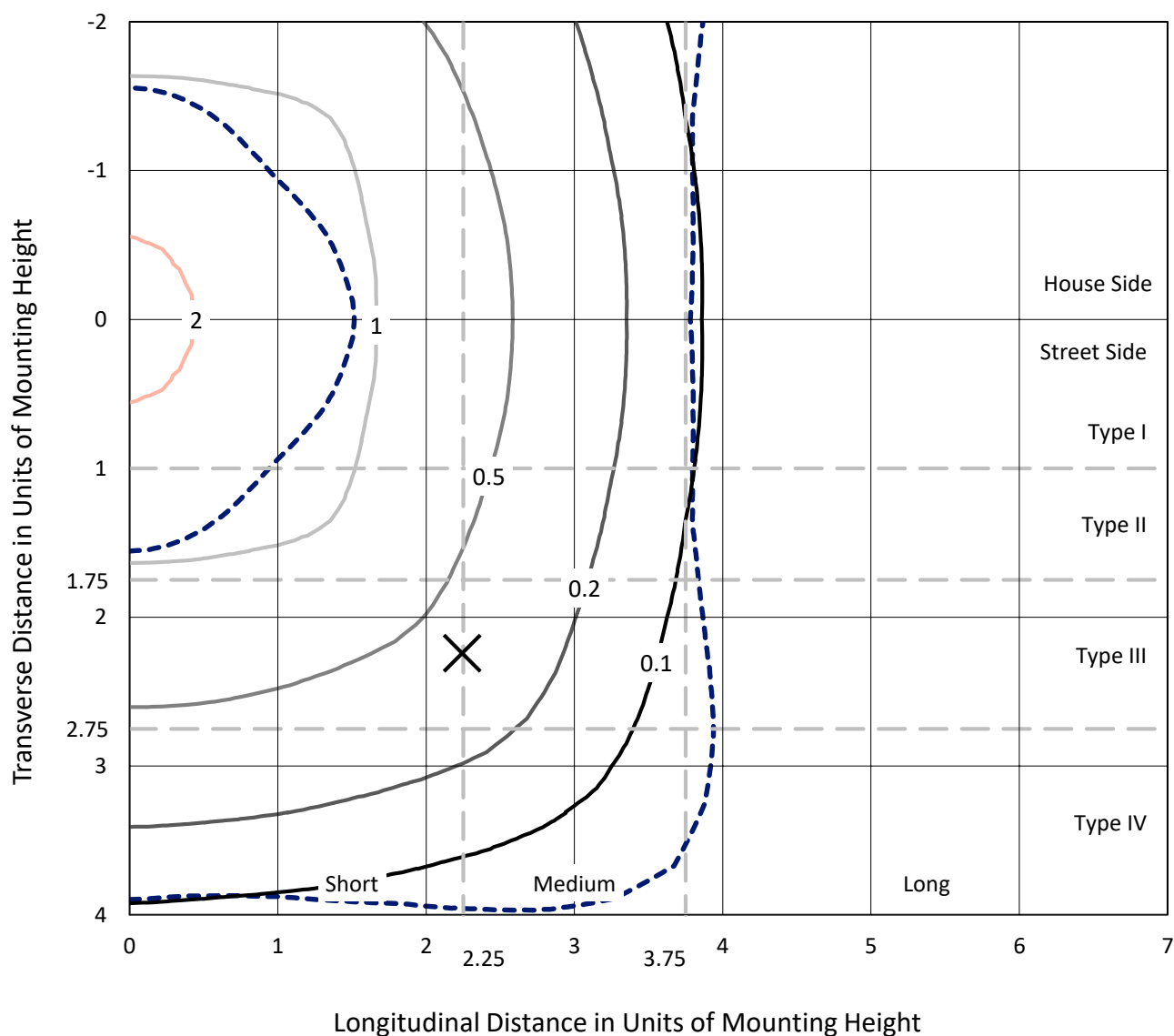


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

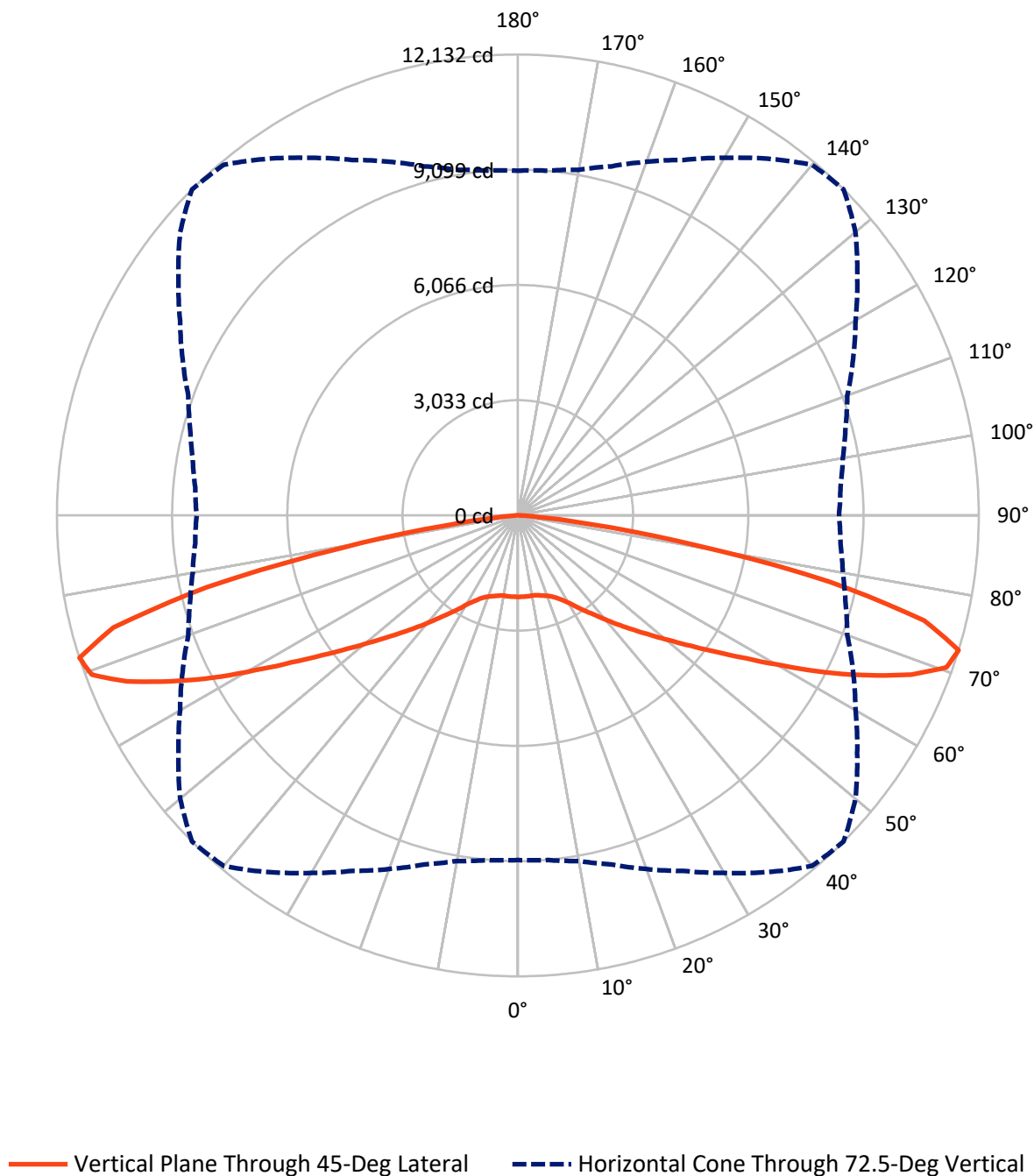


Based on 30 foot mounting height. Maximum calculated value = 2.4 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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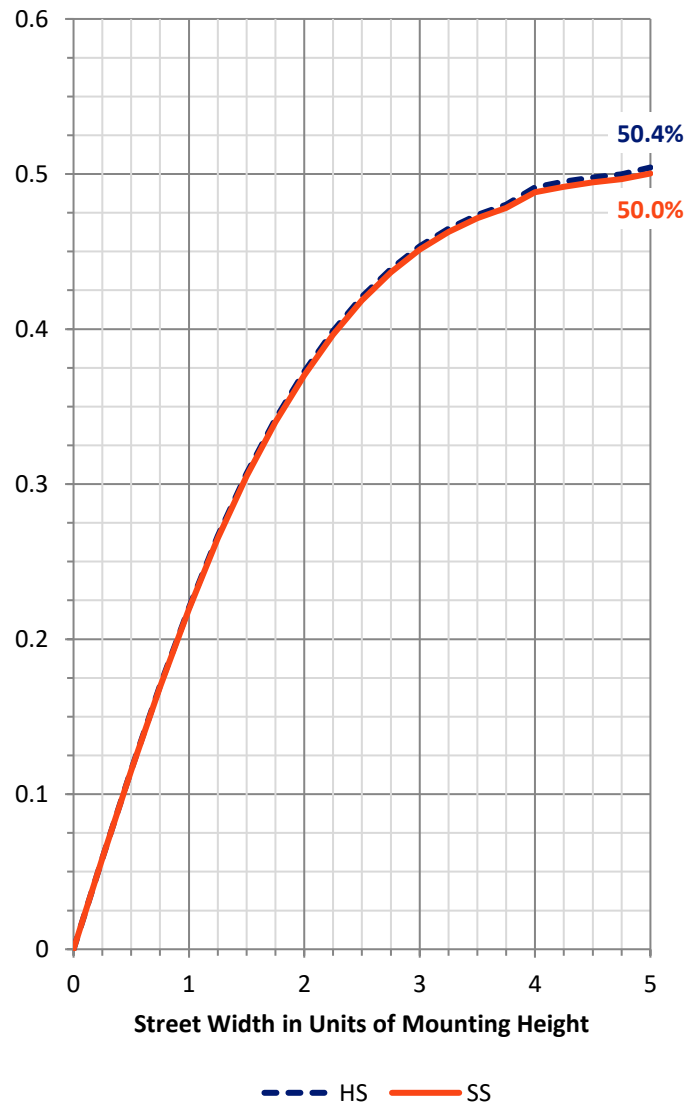
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15148.5	0.0	15148.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15148.5	0.0	15148.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30297.0	0.0	30297.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.9	0.7
10°-20°	622.2	2.1
20°-30°	1137.0	3.8
30°-40°	1960.5	6.5
40°-50°	3351.4	11.1
50°-60°	5432.1	17.9
60°-70°	9011.7	29.7
70°-80°	7937.2	26.2
80°-90°	640.0	2.1
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°	30297.0	100.0
0°-180°	30297.0	100.0

Coefficient of Utilization



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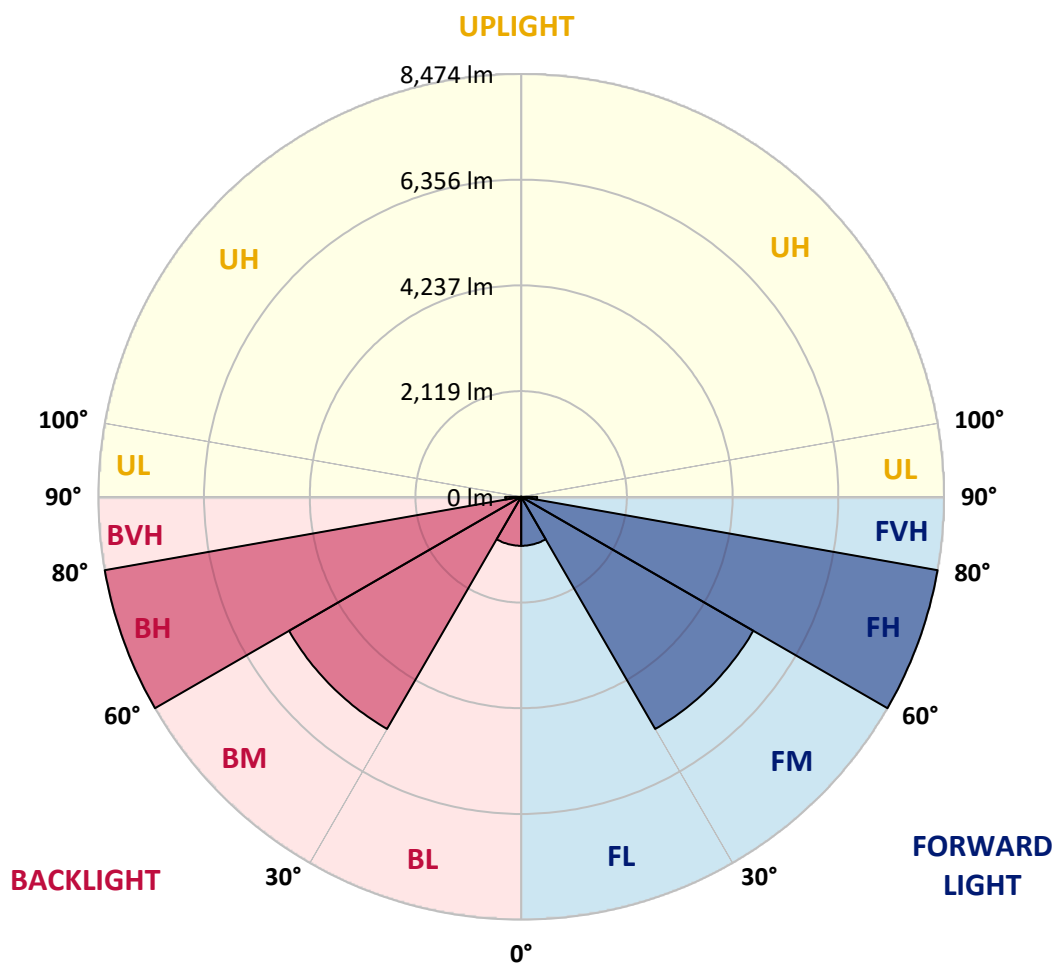
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	982.1	3.2			
FM	(30°-60°)	5372.0	17.7			
FH	(60°-80°)	8474.5	28.0			G4/12000
FVH	(80°-90°)	320.0	1.1			G3/500
BL	(0°-30°)	982.1	3.2	B2/1000		
BM	(30°-60°)	5372.0	17.7	B4/8500		
BH	(60°-80°)	8474.5	28.0	B5		G4/12000
BVH	(80°-90°)	320.0	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2145.5	2145.5	2145.5	2145.5	2145.5	2145.5	2145.5	2145.5	2145.5	2145.5	2145.5
2.5°	2145.5	2146.9	2148.3	2146.9	2146.9	2145.5	2144.1	2145.5	2144.1	2141.3	2142.7
5°	2152.4	2155.2	2155.2	2152.4	2153.8	2152.4	2149.7	2151.1	2148.3	2144.1	2144.1
7.5°	2160.8	2162.2	2162.2	2159.4	2160.8	2158.0	2155.2	2153.8	2151.1	2145.5	2141.3
10°	2173.3	2174.7	2173.3	2170.5	2170.5	2166.3	2159.4	2156.6	2151.1	2142.7	2138.6
12.5°	2187.2	2188.6	2187.2	2184.4	2183.0	2176.1	2170.5	2166.3	2162.2	2155.2	2148.3
15°	2206.6	2209.4	2206.6	2201.1	2196.9	2191.4	2188.6	2190.0	2191.4	2185.8	2178.8
17.5°	2242.8	2244.2	2240.0	2227.5	2221.9	2216.4	2216.4	2219.1	2223.3	2220.5	2213.6
20°	2309.5	2305.3	2295.6	2280.3	2273.3	2263.6	2262.2	2263.6	2263.6	2262.2	2256.7
22.5°	2392.8	2390.1	2377.6	2358.1	2348.4	2342.8	2334.5	2327.5	2326.1	2322.0	2316.4
25°	2492.9	2491.5	2476.2	2459.5	2452.6	2445.6	2438.7	2429.0	2420.6	2410.9	2405.3
27.5°	2620.7	2615.2	2592.9	2584.6	2574.9	2570.7	2561.0	2549.9	2542.9	2530.4	2523.5
30°	2761.1	2761.1	2743.0	2740.2	2740.2	2730.5	2719.4	2699.9	2687.4	2674.9	2670.8
32.5°	2901.4	2902.8	2884.8	2890.3	2894.5	2901.4	2904.2	2897.3	2888.9	2887.5	2879.2
35°	3104.3	3098.7	3080.7	3084.8	3083.5	3082.1	3082.1	3097.4	3100.1	3102.9	3086.2
37.5°	3355.8	3355.8	3337.8	3337.8	3329.4	3321.1	3310.0	3319.7	3335.0	3339.1	3328.0
40°	3643.5	3653.2	3631.0	3629.6	3632.3	3605.9	3593.4	3608.7	3618.4	3635.1	3622.6
42.5°	3982.5	3975.6	3953.3	3950.6	3935.3	3926.9	3915.8	3928.3	3943.6	3954.7	3958.9
45°	4307.7	4302.1	4277.1	4277.1	4261.8	4254.9	4260.4	4281.3	4288.2	4303.5	4318.8
47.5°	4628.7	4621.7	4605.0	4612.0	4613.4	4625.9	4643.9	4663.4	4682.9	4703.7	4710.6
50°	4956.6	4958.0	4939.9	4956.6	4977.4	5012.2	5060.8	5092.8	5133.1	5159.5	5167.8
52.5°	5255.4	5260.9	5280.4	5319.3	5361.0	5429.1	5512.4	5590.2	5656.9	5701.4	5698.6
55°	5613.9	5622.2	5669.5	5736.2	5804.2	5907.1	6030.7	6168.3	6279.5	6343.4	6303.1
57.5°	6072.4	6090.5	6143.3	6233.6	6335.1	6468.5	6638.0	6845.0	7017.3	7103.5	7038.2
60°	6701.9	6713.0	6776.9	6877.0	6999.3	7164.6	7391.1	7669.0	7912.2	8026.2	7951.1
62.5°	7531.5	7552.3	7603.7	7705.2	7830.2	8017.8	8294.4	8641.7	8944.7	9103.1	8933.6
65°	8522.2	8588.9	8632.0	8734.8	8851.6	9050.3	9339.3	9711.7	10036.9	10141.1	9945.2
67.5°	9503.3	9561.6	9636.7	9754.8	9872.9	10096.6	10364.8	10726.1	11083.2	11177.7	10873.4
70°	9932.7	9966.0	10082.7	10243.9	10470.4	10734.4	11044.3	11450.1	11892.0	11969.8	11583.5
72.5°	9072.5	9105.9	9236.5	9510.2	9904.9	10324.5	10865.1	11461.2	12044.8	12132.3	11600.1
75°	6861.7	6807.5	7000.7	7363.3	7895.5	8480.6	9236.5	10091.1	10934.5	11044.3	10409.3
77.5°	3546.2	3539.2	3685.1	4135.4	4770.4	5436.0	6268.4	7234.1	8059.5	8393.0	7876.1
80°	999.1	1010.2	1079.7	1303.4	1674.4	2155.2	2805.5	3710.2	4385.5	4730.1	4441.1
82.5°	391.9	422.4	448.8	490.5	539.2	610.0	814.3	1211.7	1625.8	1942.6	1591.1
85°	140.3	150.1	212.6	251.5	255.7	269.6	307.1	358.5	432.2	515.5	423.8
87.5°	52.8	58.4	68.1	112.6	111.2	101.4	123.7	129.2	97.3	88.9	109.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2145.5	2145.5	2145.5	2145.5	2145.5	2145.5	2145.5	2145.5
2.5°	2139.9	2141.3	2141.3	2142.7	2144.1	2144.1	2146.9	2146.9
5°	2141.3	2141.3	2138.6	2139.9	2138.6	2138.6	2139.9	2139.9
7.5°	2138.6	2137.2	2134.4	2133.0	2130.2	2130.2	2130.2	2130.2
10°	2134.4	2133.0	2130.2	2128.8	2127.4	2127.4	2127.4	2127.4
12.5°	2145.5	2141.3	2138.6	2137.2	2137.2	2137.2	2137.2	2137.2
15°	2174.7	2165.0	2158.0	2158.0	2159.4	2162.2	2162.2	2165.0
17.5°	2210.8	2199.7	2192.7	2187.2	2190.0	2194.1	2196.9	2199.7
20°	2253.9	2248.3	2238.6	2233.0	2233.0	2238.6	2241.4	2242.8
22.5°	2313.6	2309.5	2305.3	2298.4	2298.4	2301.1	2306.7	2306.7
25°	2402.6	2399.8	2397.0	2391.5	2390.1	2390.1	2392.8	2395.6
27.5°	2513.7	2515.1	2512.3	2511.0	2506.8	2505.4	2509.6	2508.2
30°	2662.4	2669.4	2676.3	2670.8	2663.8	2659.6	2655.5	2649.9
32.5°	2863.9	2855.6	2850.0	2840.3	2827.8	2816.7	2808.3	2798.6
35°	3054.3	3040.4	3034.8	3043.2	3041.8	3034.8	3025.1	3016.8
37.5°	3287.7	3284.9	3287.7	3303.0	3300.2	3307.2	3287.7	3286.3
40°	3582.3	3585.1	3604.5	3622.6	3632.3	3642.1	3631.0	3619.8
42.5°	3924.1	3922.8	3929.7	3954.7	3971.4	3982.5	3958.9	3956.1
45°	4285.4	4275.7	4281.3	4302.1	4318.8	4331.3	4304.9	4304.9
47.5°	4682.9	4666.2	4648.1	4671.7	4681.5	4689.8	4669.0	4662.0
50°	5126.1	5091.4	5052.5	5062.2	5062.2	5059.4	5033.0	5031.6
52.5°	5634.7	5570.8	5499.9	5473.5	5458.2	5441.6	5395.7	5373.5
55°	6219.7	6123.8	6012.7	5944.6	5908.5	5862.6	5786.2	5765.3
57.5°	6903.4	6753.3	6561.6	6478.2	6397.6	6322.5	6237.8	6214.2
60°	7713.5	7492.6	7238.3	7084.0	6996.5	6924.2	6836.7	6832.5
62.5°	8616.7	8267.9	7980.3	7841.4	7777.4	7713.5	7630.1	7641.3
65°	9535.2	9171.2	8901.6	8789.0	8729.3	8676.5	8593.1	8605.6
67.5°	10441.2	10106.4	9810.4	9695.0	9628.3	9561.6	9486.6	9499.1
70°	11091.6	10676.1	10342.6	10086.9	9927.1	9746.5	9629.7	9600.5
72.5°	10905.4	10264.8	9735.3	9228.1	8930.8	8689.0	8525.0	8454.2
75°	9438.0	8562.5	7881.6	7259.1	6908.9	6624.1	6417.0	6287.8
77.5°	7009.0	6025.2	5220.6	4503.6	3936.7	3555.9	3287.7	3114.0
80°	3836.6	2918.1	2133.0	1499.3	1101.9	915.7	808.7	757.3
82.5°	1195.0	771.2	568.3	490.5	455.8	436.3	404.4	353.0
85°	380.7	333.5	309.9	296.0	282.1	246.0	169.5	154.2
87.5°	147.3	151.5	150.1	141.7	144.5	104.2	83.4	73.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)