

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: P193248

Luminaire Tested: **GLEON-AF-10-LED-E1-T3R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-T3R-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63911.2 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 640
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



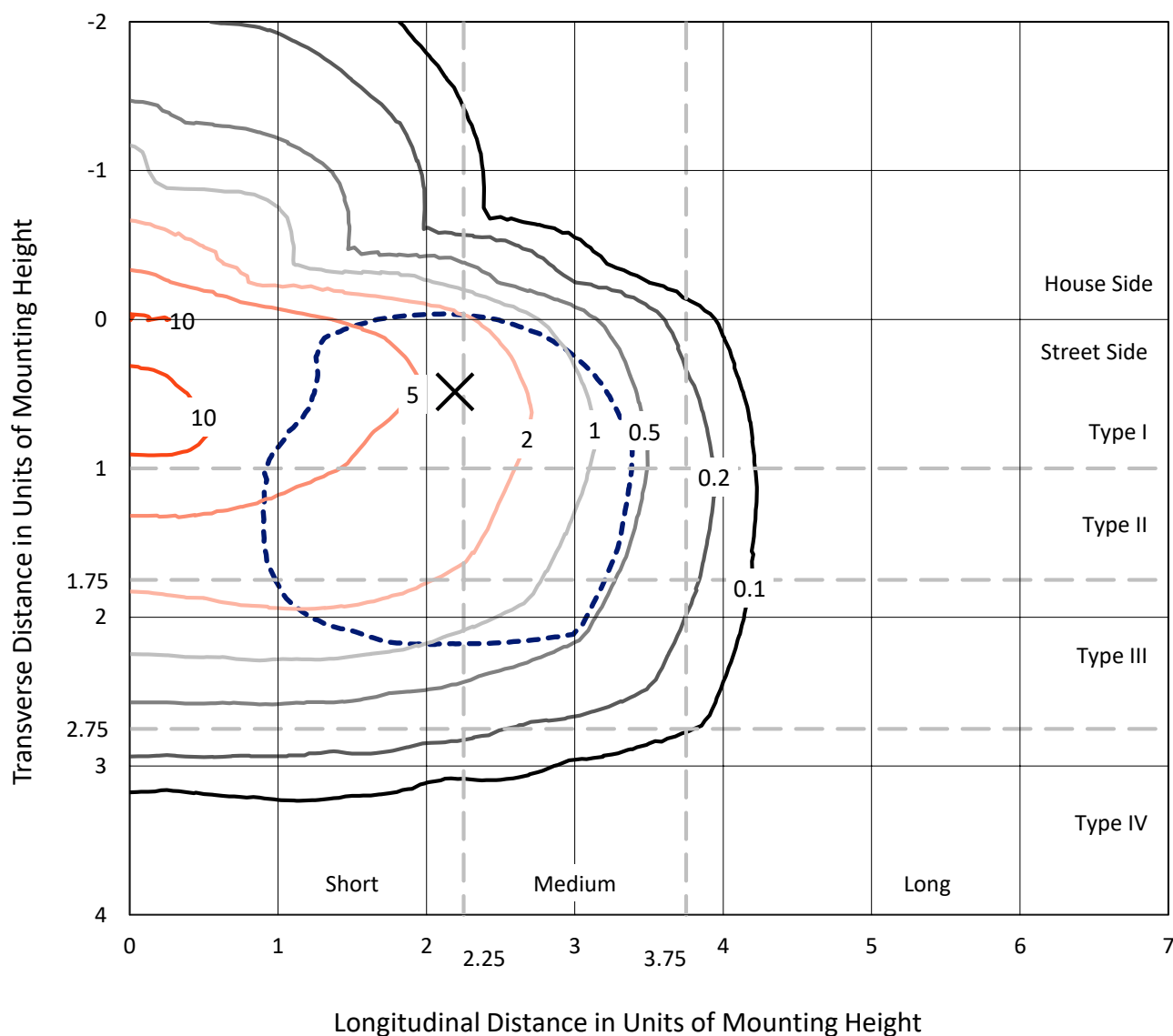
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

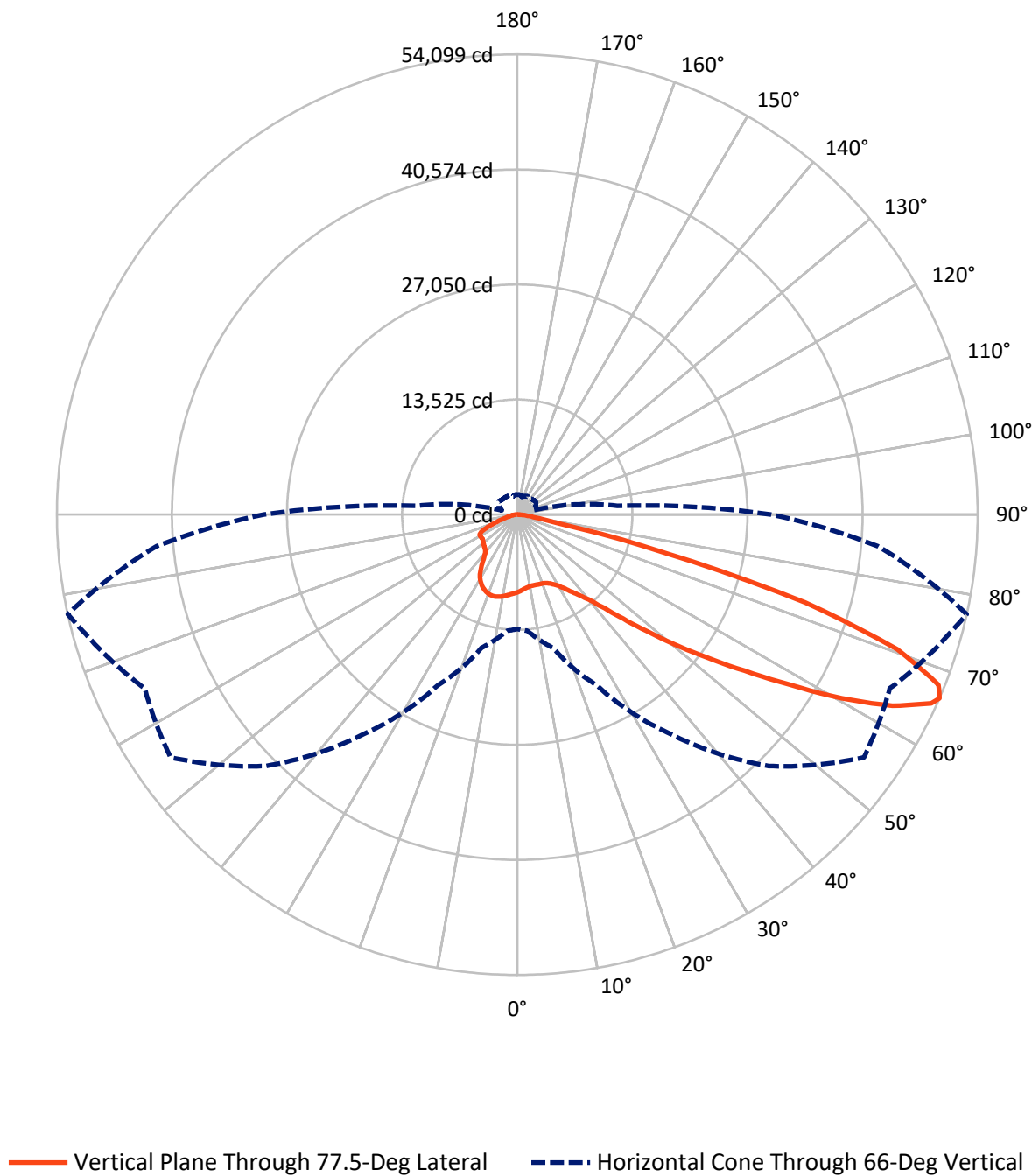


Based on 30 foot mounting height. Maximum calculated value = 12.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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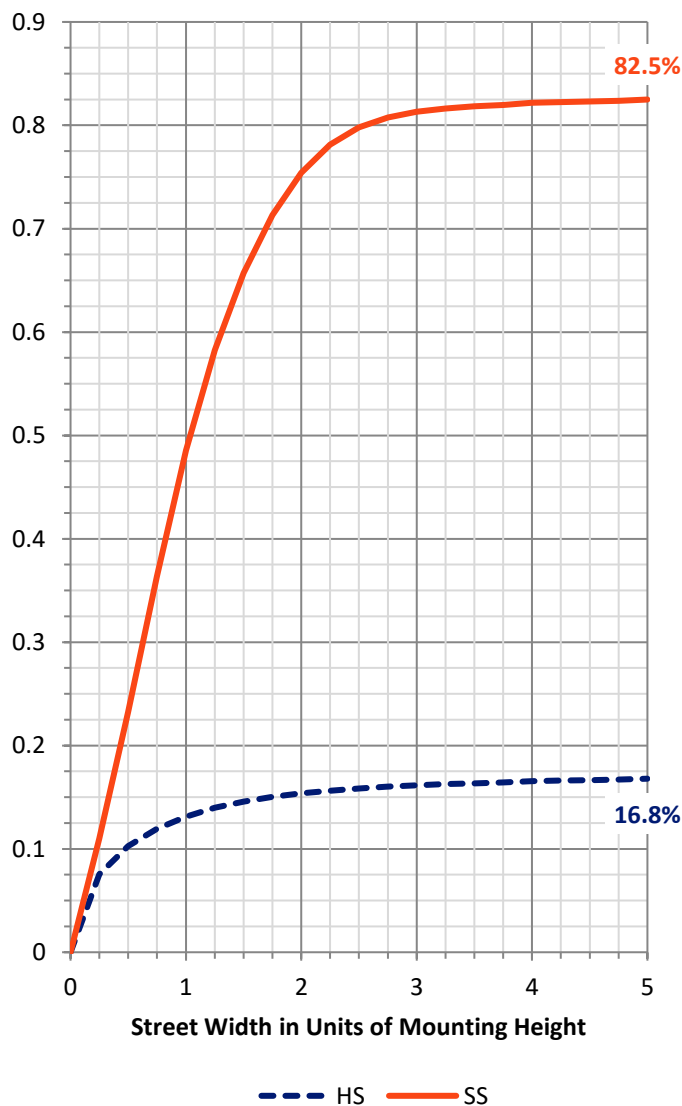
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10918.8	0.0	10918.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	52992.4	0.0	52992.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	63911.2	0.0	63911.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	813.7	1.3
10°-20°	2295.6	3.6
20°-30°	3917.7	6.1
30°-40°	6271.6	9.8
40°-50°	9689.0	15.2
50°-60°	13742.4	21.5
60°-70°	18383.6	28.8
70°-80°	7983.6	12.5
80°-90°	814.1	1.3
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°	63911.2	100.0
0°-180°	63911.2	100.0

Coefficient of Utilization



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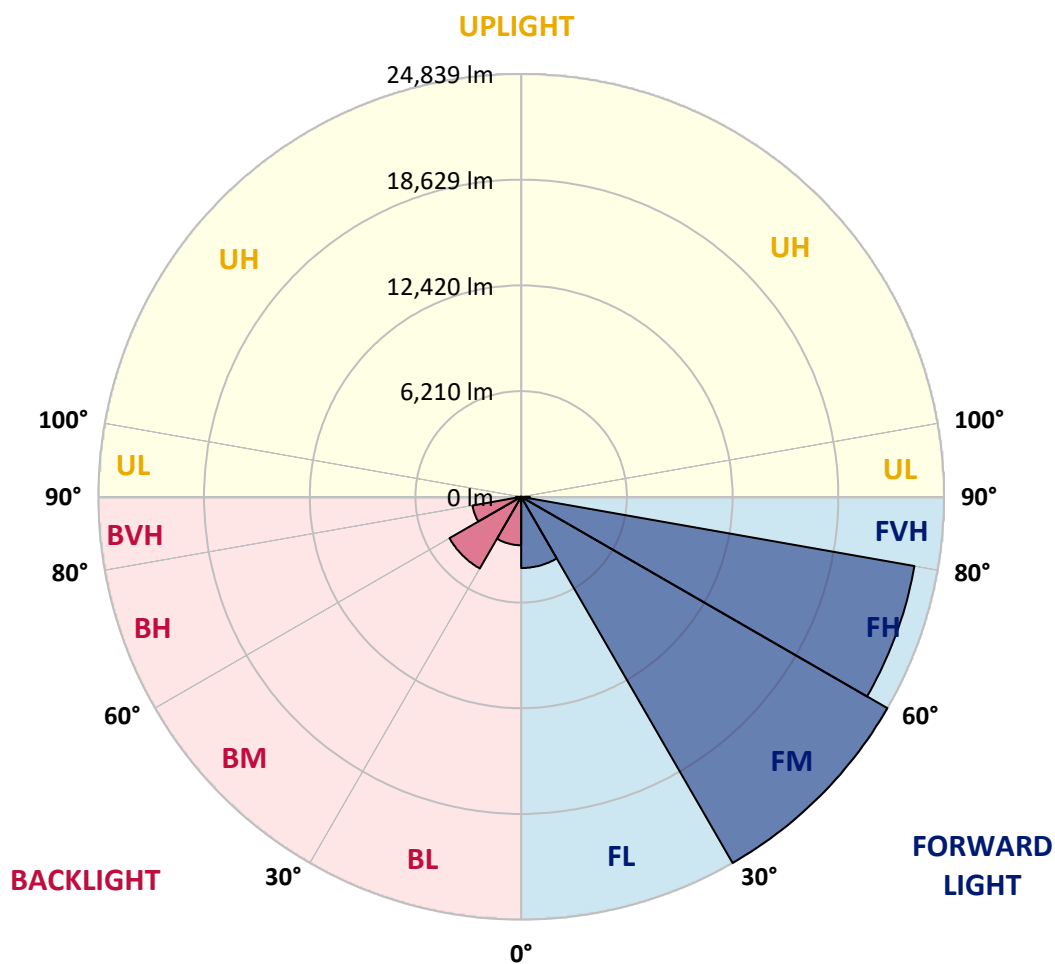
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4183.3	6.5			
FM	(30°-60°)	24839.2	38.9			
FH	(60°-80°)	23459.3	36.7			G5
FVH	(80°-90°)	510.6	0.8			G4/750
BL	(0°-30°)	2843.7	4.4	B4/5000		
BM	(30°-60°)	4863.7	7.6	B3/5000		
BH	(60°-80°)	2907.9	4.5	B4/5000		G4/5000
BVH	(80°-90°)	303.5	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	9107.7	9107.7	9107.7	9107.7	9107.7	9107.7	9107.7	9107.7	9107.7	9107.7	9107.7
2.5°	8056.8	8111.1	8156.4	8198.7	8283.3	8422.1	8582.2	8712.0	8899.2	8935.6	9035.2
5°	7316.9	7316.9	7353.1	7416.6	7531.4	7739.7	7957.2	8247.0	8654.7	8751.3	9017.0
7.5°	6957.5	6960.6	6981.7	7036.1	7135.7	7326.0	7564.6	7905.8	8458.5	8618.5	9071.4
10°	7090.5	7060.3	7015.0	6987.7	7002.9	7114.6	7341.1	7721.6	8337.6	8543.0	9192.2
12.5°	7833.4	7776.0	7618.8	7410.5	7211.2	7129.7	7262.6	7634.0	8286.2	8524.9	9352.3
15°	9047.2	9023.0	8730.2	8298.3	7815.2	7410.5	7320.0	7600.7	8292.3	8545.9	9542.4
17.5°	10569.2	10536.0	10149.4	9521.4	8733.2	7945.0	7522.3	7627.9	8313.4	8582.2	9726.7
20°	12106.3	12003.7	11586.8	10838.0	9826.3	8672.8	7857.5	7697.5	8340.7	8621.4	9919.9
22.5°	13253.8	13169.2	12794.8	12067.0	10901.5	9515.3	8307.4	7818.1	8428.1	8736.3	10158.5
25°	14262.3	14268.5	13897.0	13193.4	11988.5	10409.1	8887.2	8141.4	8651.7	8971.8	10484.6
27.5°	15509.6	15437.1	15089.8	14392.2	13063.6	11312.0	9587.8	8585.3	8983.9	9306.9	10913.5
30°	17001.4	16950.1	16548.4	15757.2	14256.3	12281.4	10388.1	9101.7	9412.6	9747.9	11475.2
32.5°	18755.9	18731.7	18314.9	17297.3	15633.4	13422.9	11327.2	9784.0	10052.8	10400.1	12281.4
35°	20815.3	20818.4	20326.1	19103.1	17140.3	14751.6	12393.2	10662.8	10832.0	11194.2	13241.6
37.5°	22083.6	22237.6	22053.4	20806.2	18846.4	16237.3	13776.3	11828.5	11719.8	12085.1	14271.5
40°	22355.4	22542.6	23125.5	22491.3	20754.9	17874.0	15002.3	12948.9	12813.0	13259.8	15597.2
42.5°	21974.9	22234.6	23466.7	23913.6	22781.2	19891.3	16651.0	14612.7	14440.6	15041.5	17245.9
45°	21748.5	21941.7	23367.1	24653.5	24538.7	22171.2	18749.8	16702.4	16639.0	17427.2	19148.4
47.5°	21356.0	21531.0	22902.0	24825.6	25571.5	24260.9	21271.3	19257.2	19381.0	20413.7	21295.5
50°	21567.2	21639.8	22382.7	24387.8	25870.4	25792.0	24088.7	22216.6	22639.3	23928.8	23726.4
52.5°	21537.0	21724.2	22322.2	23669.1	25909.7	26737.2	26863.9	25517.2	26408.0	27887.7	26423.0
55°	17412.0	17756.3	21612.6	23487.8	26048.6	27664.2	29334.2	28995.9	30656.8	32381.0	29467.0
57.5°	16626.8	16844.3	18982.3	23868.3	26785.5	29433.8	32082.2	32825.0	35603.2	37605.3	33175.3
60°	16472.9	16741.7	18955.2	24333.3	28280.2	32317.7	36155.8	37460.3	41621.5	43813.9	37475.5
62.5°	15992.8	16282.7	18777.0	24272.9	30403.1	36306.8	41370.9	42388.7	47328.9	49460.9	41071.9
65°	14470.8	14742.6	17324.4	23297.6	31834.6	40564.6	47543.4	46906.2	51834.4	53437.9	42865.8
66°	13428.9	13694.7	16179.9	22150.0	31502.2	41772.5	49729.7	48304.4	52843.1	54099.2	42515.4
67.5°	11523.5	11731.8	13957.5	19580.3	29735.8	42110.8	51568.7	49355.2	52948.7	53392.7	40513.4
70°	7280.7	7341.1	9071.4	13516.6	22509.4	36521.2	48769.4	46746.1	48582.2	47380.3	33963.5
72.5°	3158.6	3137.6	4354.5	6876.0	12743.5	24505.5	39450.3	38571.6	38109.6	35367.7	23774.7
75°	1757.6	1781.7	2261.7	3191.9	5178.9	12036.9	25807.0	24695.8	20851.6	17792.6	10780.6
77.5°	1410.2	1443.5	1875.3	2264.8	2325.2	4197.5	12076.1	9826.3	5915.8	4747.1	2995.7
80°	1114.3	1174.6	1636.7	1763.6	1567.3	1730.3	3901.5	3119.5	2340.4	2147.1	1552.1
82.5°	881.7	924.0	1404.2	1334.7	1096.2	1165.7	1869.2	1821.0	1522.0	1386.1	896.9
85°	634.1	712.7	1153.6	1005.6	718.7	785.1	1241.0	1189.9	872.8	712.7	395.6
87.5°	259.7	338.2	815.3	667.3	401.6	365.4	619.1	582.8	413.6	302.0	196.3
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°	9107.7	9107.7	9107.7	9107.7	9107.7	9107.7	9107.7	9107.7	9107.7	9107.7	9107.7
2.5°	9098.6	9171.1	9264.6	9322.0	9352.3	9373.4	9406.5	9403.6	9412.6	9415.6	9427.8
5°	9158.9	9279.8	9415.6	9451.9	9451.9	9418.7	9385.5	9331.1	9310.0	9304.0	9310.0
7.5°	9316.0	9448.8	9566.6	9524.3	9433.8	9300.9	9128.8	8977.9	8896.2	8869.1	8863.0
10°	9515.3	9675.4	9723.6	9563.7	9297.9	8977.9	8636.6	8388.9	8247.0	8207.8	8195.6
12.5°	9756.9	9907.8	9841.4	9503.3	9011.0	8494.7	8023.6	7627.9	7332.1	7238.4	7232.4
15°	10022.7	10140.5	9907.8	9316.0	8582.2	7821.3	6981.7	6299.3	5930.8	5813.0	5804.0
17.5°	10270.3	10330.7	9868.7	8989.9	7951.2	6719.0	5604.7	5079.3	4952.4	4982.7	4988.7
20°	10481.7	10481.7	9735.8	8521.7	6957.5	5266.6	4562.8	4553.8	4644.4	4735.0	4753.1
22.5°	10714.2	10575.3	9503.3	7860.4	5550.4	4309.1	4206.6	4291.1	4393.8	4493.4	4508.5
25°	11001.1	10650.8	9180.1	6857.8	4363.6	3913.6	3952.9	4022.4	4073.7	4137.1	4146.2
27.5°	11321.1	10747.4	8754.3	5477.9	3786.8	3665.9	3696.2	3720.4	3714.4	3738.6	3744.6
30°	11704.6	10859.2	8171.5	4282.1	3548.2	3454.7	3400.2	3379.2	3379.2	3418.4	3433.5
32.5°	12218.0	11025.3	7335.0	3669.0	3433.5	3303.7	3128.5	3050.0	3080.1	3213.1	3243.3
35°	12782.7	11203.3	6202.6	3460.7	3409.3	3234.2	2962.4	2817.5	2820.4	2944.3	2983.6
37.5°	13398.8	11429.8	4961.5	3421.5	3463.7	3237.3	2874.8	2675.5	2594.1	2594.1	2609.1
40°	14186.9	11662.4	4016.3	3448.6	3578.5	3273.4	2829.5	2563.8	2334.4	2340.4	2352.5
42.5°	15213.6	11861.7	3509.0	3505.9	3717.3	3321.8	2826.5	2415.8	2216.6	2352.5	2476.3
45°	16355.1	11961.3	3285.5	3557.3	3829.1	3352.0	2778.3	2391.6	2231.6	2636.3	2871.8
47.5°	17668.8	11904.1	3161.8	3575.4	3856.3	3352.0	2723.9	2449.0	2337.3	3053.0	3327.8
50°	19109.1	11737.8	3040.9	3539.1	3847.2	3345.9	2775.1	2506.4	2376.6	3125.5	3315.7
52.5°	20803.3	11599.0	2914.1	3460.7	3783.7	3312.7	2835.6	2482.3	2252.7	2841.7	2974.5
55°	22735.9	11638.2	2772.1	3348.9	3684.1	3249.3	2814.4	2385.6	2122.9	2503.3	2585.0
57.5°	25206.1	12106.3	2603.1	3207.0	3548.2	3143.6	2738.9	2340.4	2083.7	2270.9	2319.1
60°	27963.2	12921.6	2391.6	3065.0	3379.2	2974.5	2681.5	2361.4	2101.7	2252.7	2277.0
62.5°	29986.4	13395.7	2210.5	2856.7	3149.6	2787.2	2609.1	2388.6	2150.1	2316.2	2310.2
65°	30536.0	12616.6	1984.0	2551.8	2838.5	2591.0	2518.5	2418.9	2171.2	2367.5	2340.4
66°	29765.9	11777.2	1884.4	2409.8	2681.5	2494.4	2473.2	2415.8	2162.1	2373.5	2328.2
67.5°	27896.7	10055.9	1712.2	2201.5	2430.9	2349.4	2400.8	2388.6	2137.9	2367.5	2304.1
70°	22751.0	6860.9	1464.6	1833.1	2023.3	2068.5	2261.7	2292.0	2059.5	2261.7	2122.9
72.5°	15896.1	4179.3	1295.5	1422.3	1636.7	1763.6	2071.5	2159.2	1953.8	1975.0	1842.1
75°	7682.3	2219.5	1174.6	1102.2	1271.3	1473.7	1842.1	1977.9	1787.7	1651.8	1603.5
77.5°	2394.6	1355.9	996.6	887.8	996.6	1189.9	1540.1	1733.4	1591.5	1383.0	1364.9
80°	1286.4	996.6	767.0	712.7	788.2	933.1	1210.9	1446.5	1367.9	1241.0	1108.2
82.5°	848.5	646.3	567.7	552.7	600.9	712.7	899.9	1198.9	1198.9	1063.0	773.0
85°	437.9	395.6	389.5	389.5	419.8	474.0	613.1	924.0	984.4	561.7	465.0
87.5°	217.4	226.5	211.4	220.4	235.6	232.5	293.0	465.0	555.7	341.2	283.8
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)