

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: P192595

Luminaire Tested: **GLEON-AF-07-LED-E1-5NQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-5NQ-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42002.5 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 391
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

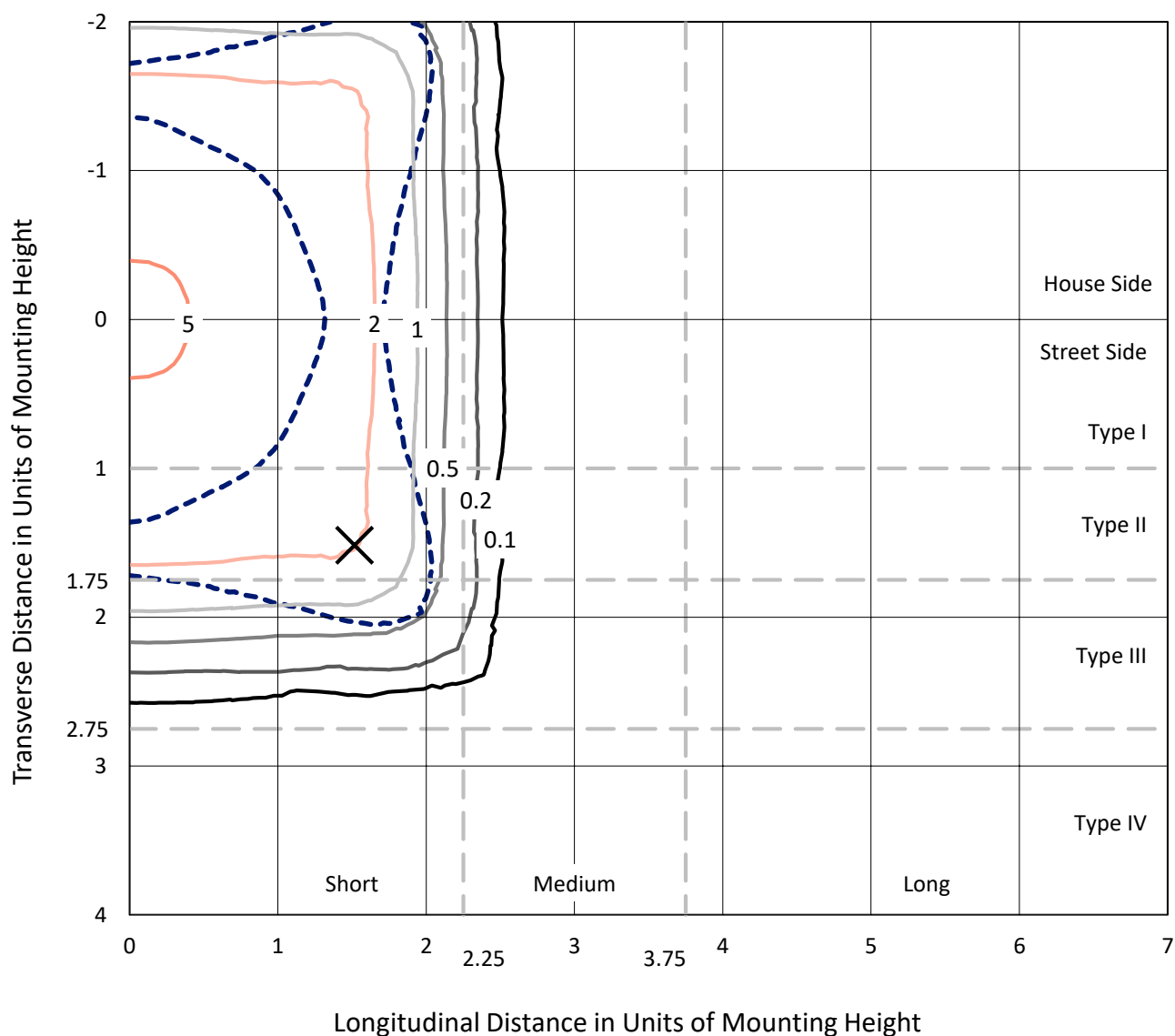


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

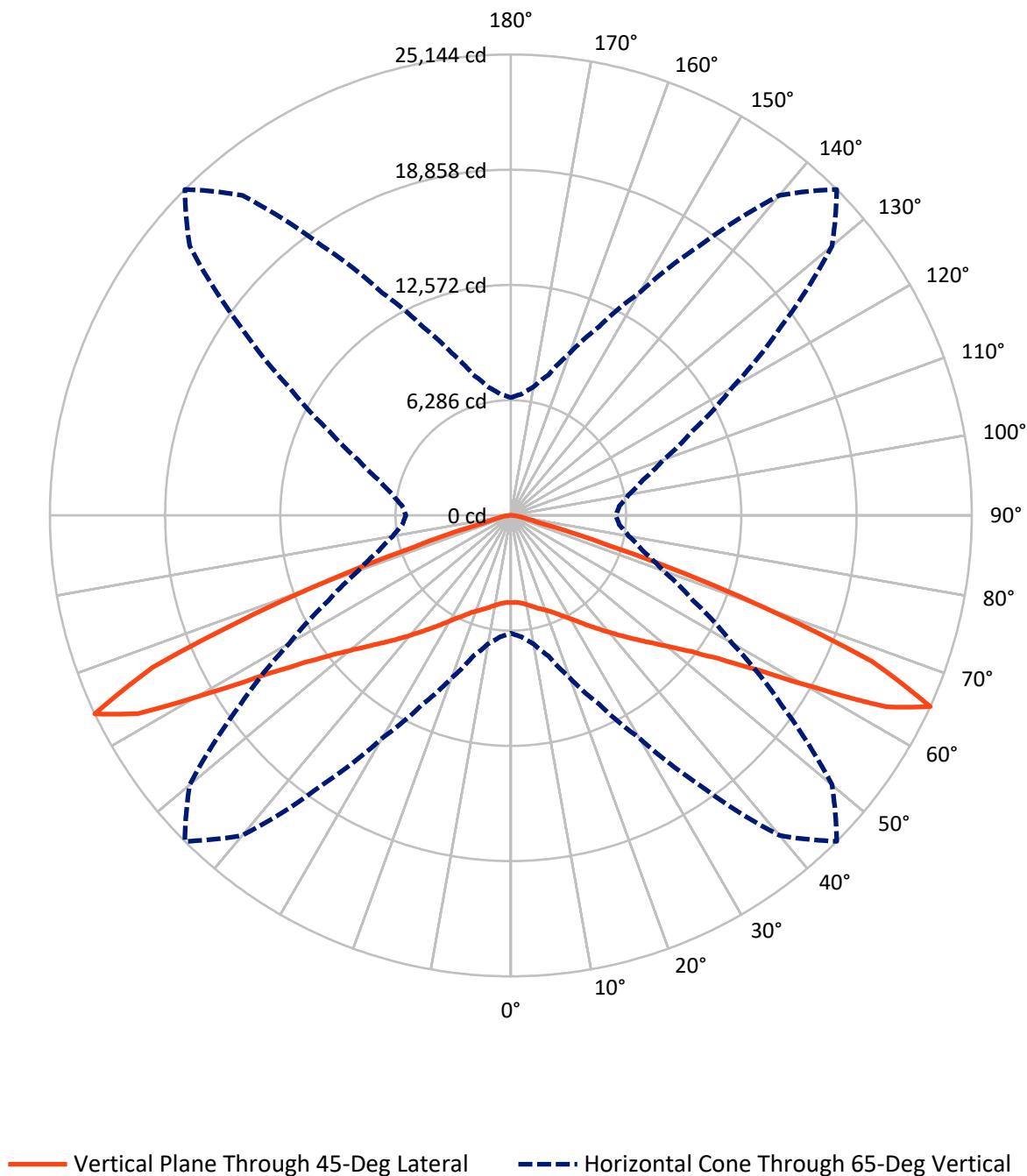


Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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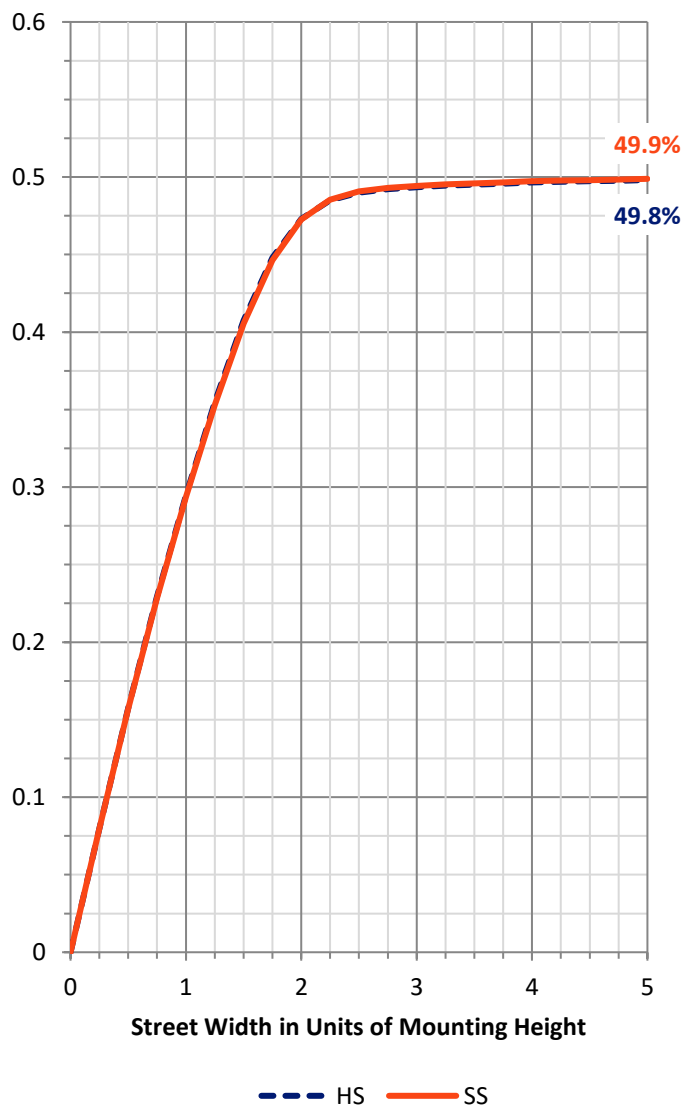
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21001.3	0.0	21001.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21001.3	0.0	21001.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	42002.5	0.0	42002.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.2	1.1
10°-20°	1485.6	3.5
20°-30°	2777.9	6.6
30°-40°	4698.2	11.2
40°-50°	7682.0	18.3
50°-60°	12215.6	29.1
60°-70°	11042.1	26.3
70°-80°	1397.4	3.3
80°-90°	240.4	0.6
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°	42002.5	100.0
0°-180°	42002.5	100.0

Coefficient of Utilization



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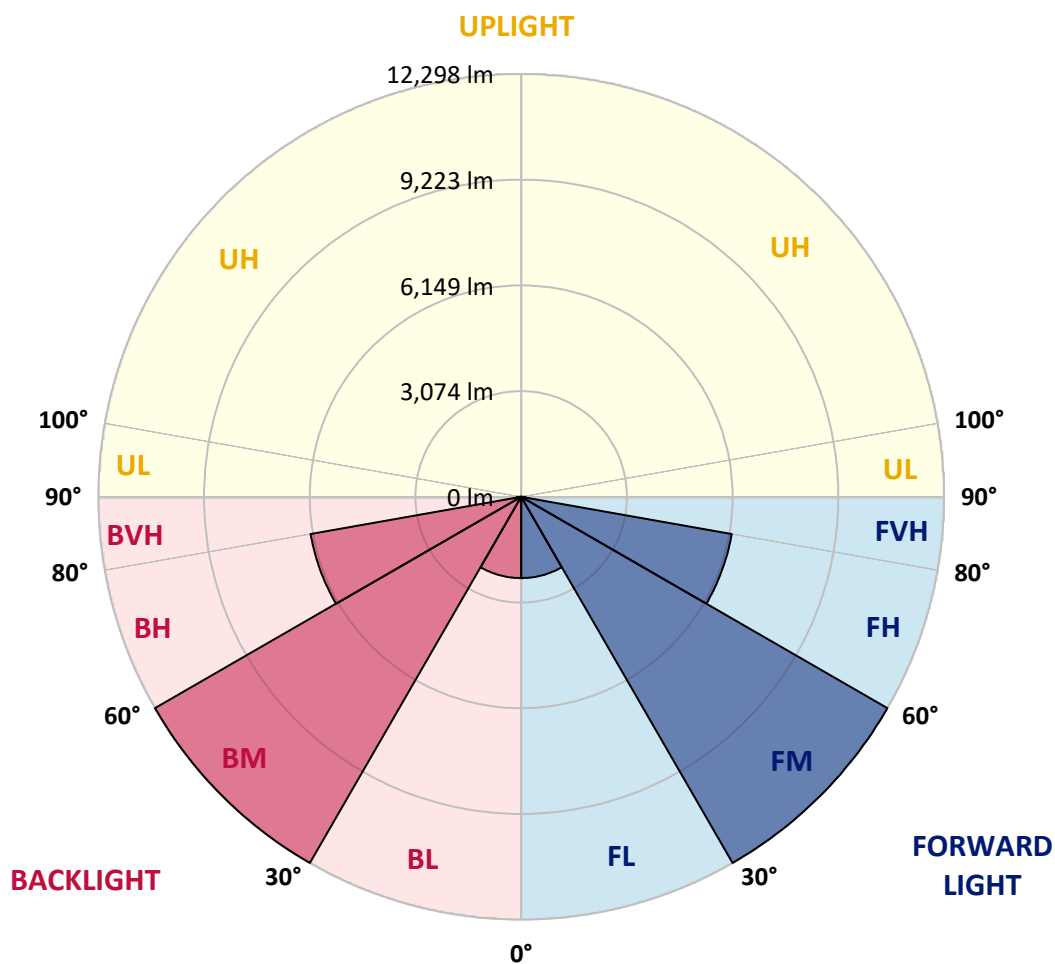
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2363.4	5.6			
FM	(30°-60°)	12297.9	29.3			
FH	(60°-80°)	6219.8	14.8			G3/7500
FVH	(80°-90°)	120.2	0.3			G2/225
BL	(0°-30°)	2363.4	5.6	B3/2500		
BM	(30°-60°)	12297.9	29.3	B5		
BH	(60°-80°)	6219.8	14.8	B5		G3/7500
BVH	(80°-90°)	120.2	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4752.6	4752.6	4752.6	4752.6	4752.6	4752.6	4752.6	4752.6	4752.6	4752.6	4752.6
2.5°	4756.5	4760.4	4764.4	4760.4	4764.4	4758.5	4754.5	4760.4	4754.5	4748.6	4752.6
5°	4797.9	4799.9	4799.9	4794.0	4799.9	4795.9	4790.0	4797.9	4792.0	4786.1	4790.0
7.5°	4866.7	4874.6	4868.7	4862.8	4866.7	4862.8	4858.9	4860.8	4858.9	4853.0	4854.9
10°	4959.2	4965.1	4961.1	4959.2	4963.1	4961.1	4957.2	4955.2	4957.2	4951.3	4951.3
12.5°	5071.3	5069.3	5067.3	5069.3	5075.2	5075.2	5073.2	5075.2	5079.1	5081.1	5077.2
15°	5181.4	5185.3	5185.3	5185.3	5197.1	5207.0	5212.9	5216.8	5224.7	5226.8	5218.8
17.5°	5319.2	5319.2	5317.2	5319.2	5331.0	5346.7	5352.6	5360.5	5368.4	5374.3	5364.4
20°	5472.6	5476.5	5476.5	5480.5	5496.2	5513.9	5513.9	5517.8	5513.9	5517.8	5511.9
22.5°	5659.4	5671.2	5671.2	5673.2	5689.0	5710.7	5704.8	5710.7	5700.8	5708.7	5700.8
25°	5903.4	5921.1	5917.2	5917.2	5929.0	5942.7	5944.7	5956.5	5954.5	5964.4	5958.5
27.5°	6178.8	6206.4	6214.2	6212.3	6220.1	6233.9	6237.8	6251.6	6243.7	6251.6	6247.7
30°	6509.2	6521.0	6536.8	6542.7	6552.5	6566.3	6566.3	6568.2	6558.4	6570.2	6576.1
32.5°	6851.5	6873.2	6888.9	6924.3	6942.0	6951.8	6949.9	6953.8	6944.0	6959.7	6971.5
35°	7304.0	7319.8	7345.3	7372.9	7396.5	7394.4	7388.5	7390.6	7390.6	7404.3	7416.1
37.5°	7848.8	7852.8	7886.3	7925.5	7937.3	7925.5	7890.1	7882.3	7864.6	7882.3	7901.9
40°	8425.3	8439.0	8506.0	8531.5	8537.4	8515.7	8464.7	8435.2	8395.7	8417.5	8444.9
42.5°	9029.1	9056.7	9117.6	9162.9	9182.5	9168.8	9098.0	9052.7	9001.7	9013.5	9040.9
45°	9698.0	9731.4	9818.0	9861.3	9898.7	9877.0	9808.2	9739.3	9658.6	9664.5	9707.8
47.5°	10445.5	10478.9	10591.0	10663.8	10683.6	10679.6	10602.8	10508.4	10398.3	10394.4	10431.7
50°	11283.5	11317.0	11456.6	11568.7	11625.8	11619.9	11529.4	11395.6	11261.9	11263.9	11311.1
52.5°	12101.9	12143.2	12288.7	12481.4	12593.7	12674.3	12619.2	12493.2	12330.0	12333.9	12377.2
55°	12869.0	12937.8	13105.1	13366.7	13575.3	13801.4	13866.4	13862.5	13764.1	13791.6	13834.9
57.5°	13240.8	13343.1	13600.8	14013.9	14438.8	14899.1	15288.6	15579.8	15703.8	15890.5	15847.3
60°	12536.6	12699.9	13079.5	13687.4	14527.3	15487.3	16516.0	17521.4	18378.9	19026.2	18654.4
62.5°	10264.6	10477.0	10937.3	11716.3	12987.1	14523.4	16492.4	18868.8	21457.5	23019.5	21904.1
65°	6422.7	6643.1	7111.2	7945.3	9432.5	11342.5	14013.9	17952.2	22789.3	25144.0	22873.9
67.5°	2504.2	2624.2	2877.9	3411.1	4528.4	6228.0	8909.2	13378.5	19163.8	21227.4	18807.8
70°	1255.1	1266.9	1314.1	1412.4	1652.4	2146.2	3265.4	6202.4	10990.4	13274.2	10595.0
72.5°	906.9	908.8	932.4	975.6	1052.3	1162.6	1375.0	1898.3	3574.3	5462.8	3350.0
75°	694.5	702.3	716.0	739.6	780.9	836.1	912.8	1093.6	1355.4	1571.7	1321.9
77.5°	535.1	550.7	560.6	582.3	607.8	645.1	666.8	735.8	855.7	901.0	887.1
80°	407.2	420.9	442.6	460.3	478.0	495.7	487.9	519.3	582.3	619.6	600.0
82.5°	259.7	275.5	338.3	354.1	361.9	373.7	360.0	361.9	389.5	413.1	389.5
85°	167.1	177.0	214.3	234.2	236.1	243.9	238.0	224.2	224.2	204.6	230.2
87.5°	76.7	78.6	96.3	114.0	118.0	106.2	104.3	100.3	80.7	76.7	82.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4752.6	4752.6	4752.6	4752.6	4752.6	4752.6	4752.6	4752.6
2.5°	4750.6	4754.5	4756.5	4762.4	4764.4	4764.4	4766.3	4770.3
5°	4788.1	4794.0	4795.9	4803.8	4805.8	4803.8	4807.7	4809.7
7.5°	4854.9	4864.8	4868.7	4876.6	4870.7	4878.5	4880.5	4880.5
10°	4953.3	4963.1	4965.1	4972.9	4969.0	4972.9	4972.9	4969.0
12.5°	5083.1	5085.0	5079.1	5085.0	5077.2	5081.1	5075.2	5071.3
15°	5226.8	5220.7	5207.0	5207.0	5195.2	5197.1	5195.2	5193.2
17.5°	5366.4	5354.6	5344.8	5340.8	5331.0	5329.0	5323.1	5323.1
20°	5519.8	5513.9	5508.0	5500.1	5490.3	5480.5	5478.5	5482.4
22.5°	5704.8	5702.8	5702.8	5698.9	5685.1	5675.2	5669.3	5669.3
25°	5952.6	5934.9	5934.9	5932.9	5927.0	5921.1	5909.3	5915.2
27.5°	6231.9	6222.1	6230.0	6228.0	6222.1	6222.1	6214.2	6214.2
30°	6576.1	6572.2	6584.0	6574.1	6554.5	6552.5	6544.6	6534.8
32.5°	6973.5	6969.5	6987.2	6975.4	6944.0	6926.3	6910.5	6902.7
35°	7416.1	7418.0	7439.7	7431.9	7396.5	7384.7	7357.1	7353.1
37.5°	7900.0	7931.4	7969.0	7976.8	7947.2	7939.4	7909.9	7894.1
40°	8468.5	8509.8	8566.9	8580.6	8549.2	8543.3	8502.0	8480.3
42.5°	9074.4	9145.2	9216.0	9227.8	9196.4	9164.8	9125.6	9109.8
45°	9751.1	9835.7	9928.2	9951.8	9904.6	9867.2	9816.1	9816.1
47.5°	10510.4	10616.6	10720.9	10785.8	10742.6	10703.2	10642.2	10602.8
50°	11407.4	11553.0	11688.8	11755.6	11686.8	11612.1	11505.8	11470.4
52.5°	12532.7	12690.0	12808.0	12772.6	12666.4	12562.2	12446.0	12398.8
55°	13968.7	14021.8	14021.8	13888.1	13675.6	13500.5	13317.5	13256.5
57.5°	15764.7	15560.0	15245.4	14846.0	14344.4	13907.7	13612.6	13473.0
60°	17875.4	16891.8	15780.5	14688.6	13791.6	13052.0	12613.3	12412.6
62.5°	19281.8	16708.9	14482.1	12729.4	11438.9	10547.8	9941.9	9705.8
65°	18021.0	13935.3	10953.0	8856.0	7449.6	6542.7	5942.7	5722.5
67.5°	13199.5	8732.1	5832.6	4180.2	3062.9	2443.1	2197.3	2095.0
70°	5925.0	3074.7	1884.5	1471.4	1268.8	1164.6	1119.3	1103.5
72.5°	1786.2	1292.4	1089.8	983.6	902.9	851.7	814.4	810.4
75°	1078.0	897.0	796.7	733.7	682.7	641.3	621.5	615.6
77.5°	753.5	659.0	611.8	566.5	527.1	495.7	478.0	464.3
80°	529.2	483.9	462.2	436.7	411.2	381.7	356.0	344.2
82.5°	354.1	344.2	344.2	328.6	306.9	279.3	228.3	216.4
85°	228.3	226.1	230.2	224.2	208.4	178.9	147.5	139.7
87.5°	106.2	108.1	119.9	118.0	114.0	94.4	74.8	70.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)