

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: P192923

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL3-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31567.2 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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



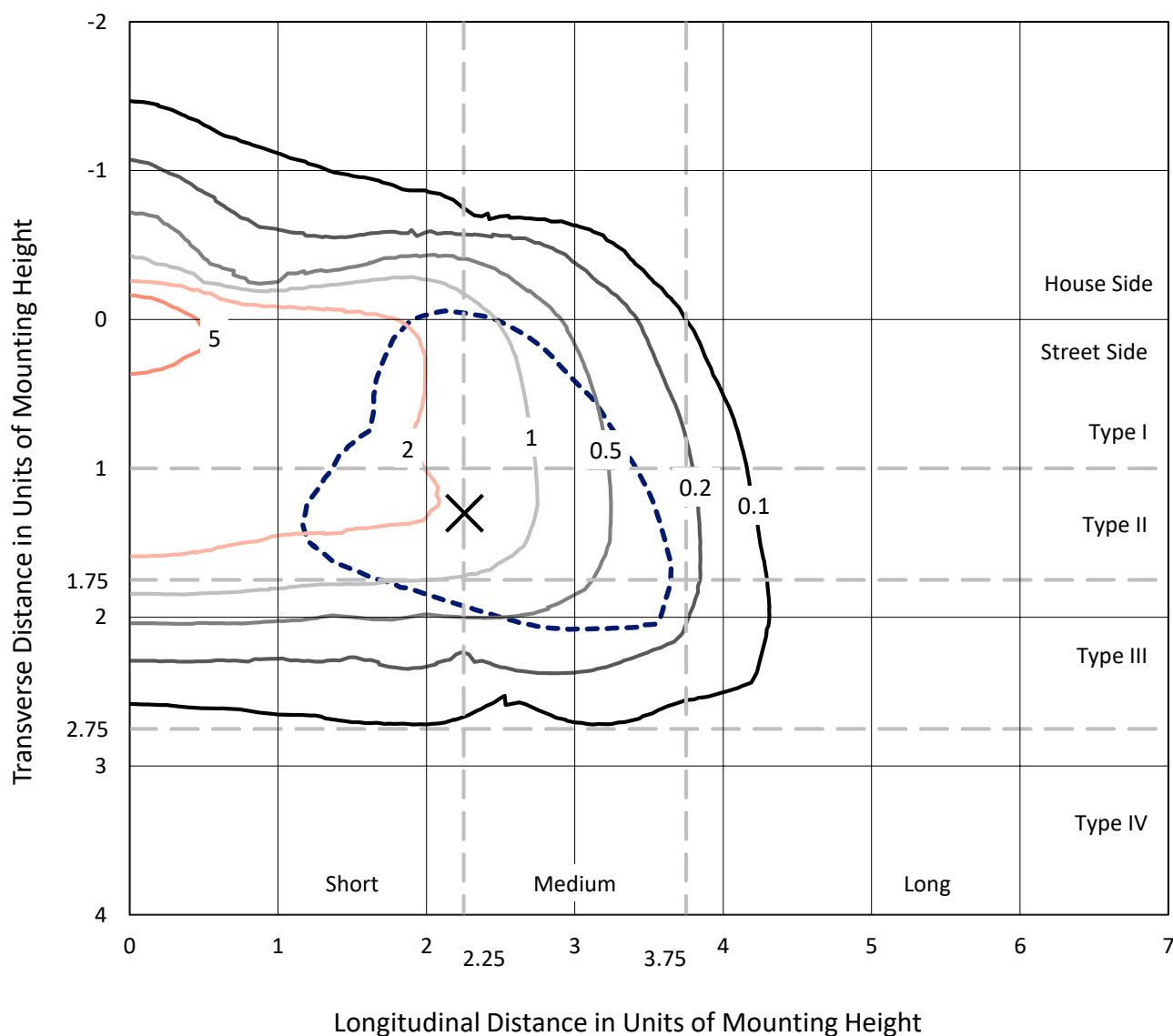
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

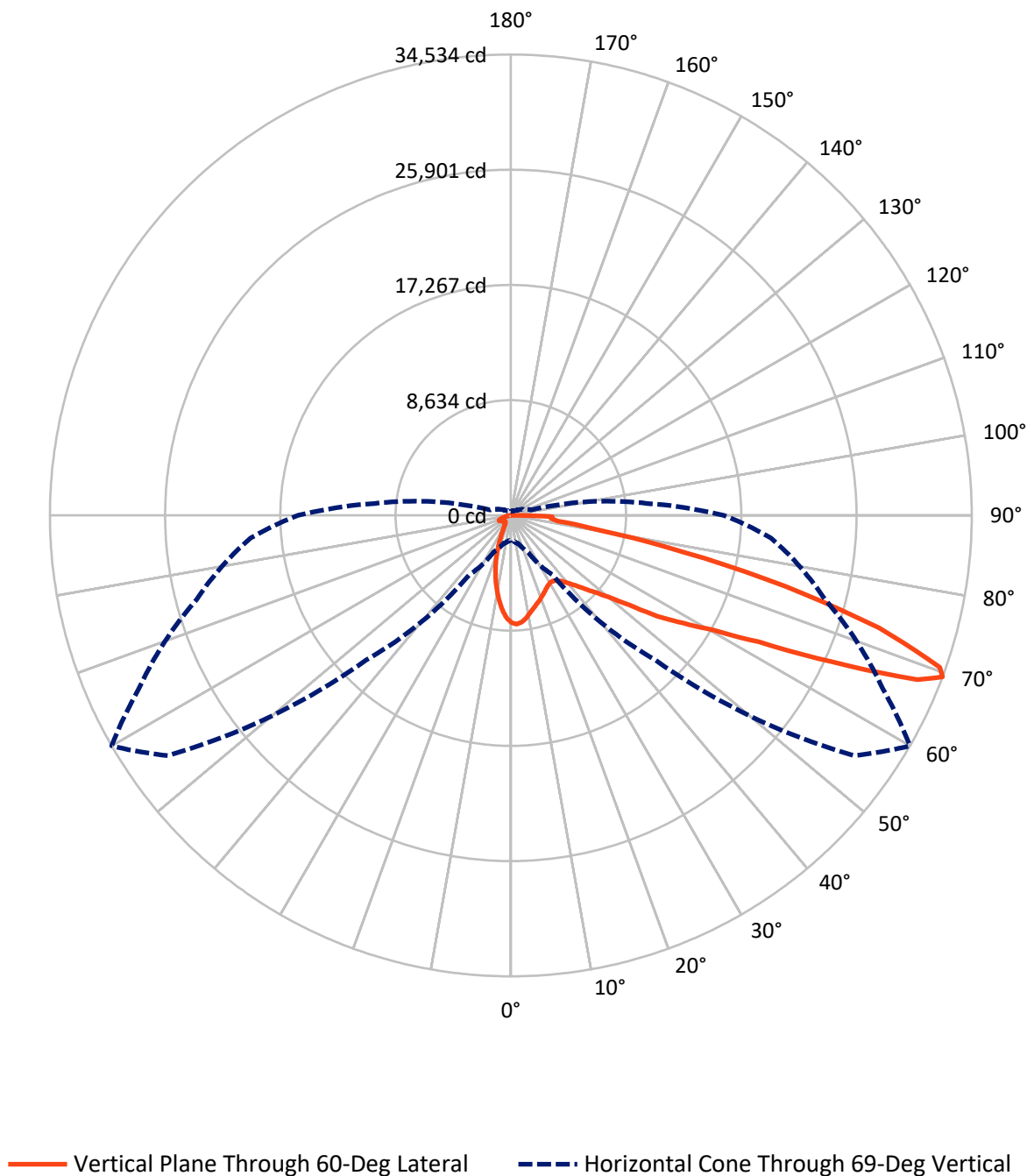


Based on 30 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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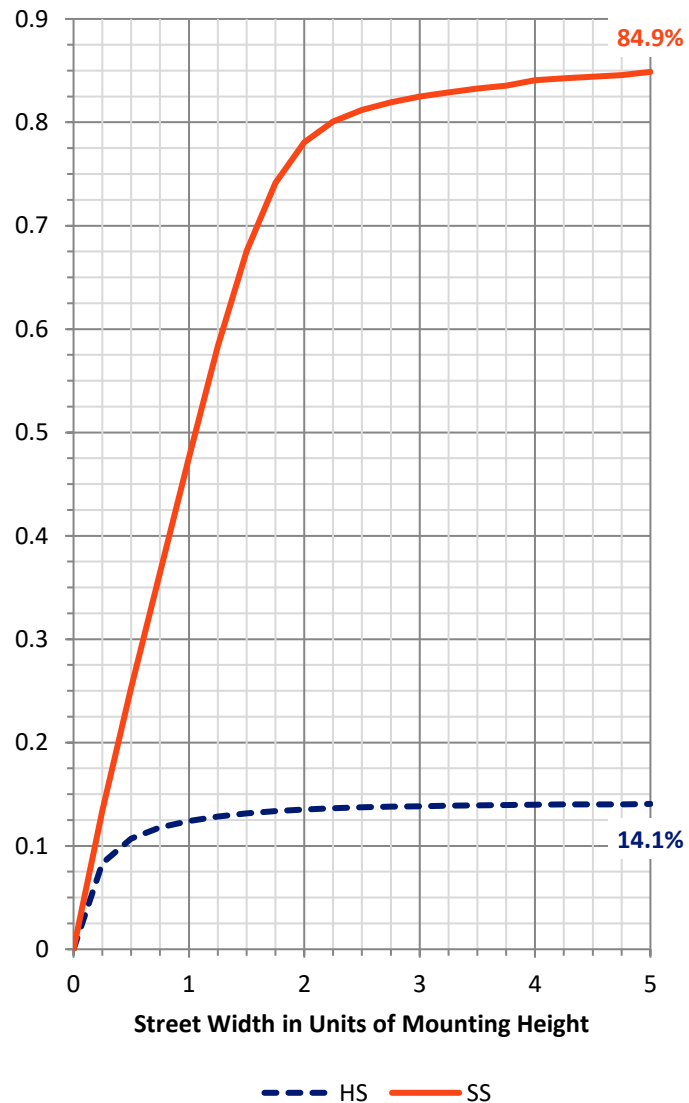
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4491.0	0.0	4491.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	27076.2	0.0	27076.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	31567.2	0.0	31567.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.1	2.2
10°-20°	1449.1	4.6
20°-30°	1846.4	5.8
30°-40°	2538.3	8.0
40°-50°	4118.6	13.0
50°-60°	6605.2	20.9
60°-70°	8791.0	27.8
70°-80°	4746.5	15.0
80°-90°	792.0	2.5
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°	31567.2	100.0
0°-180°	31567.2	100.0

Coefficient of Utilization



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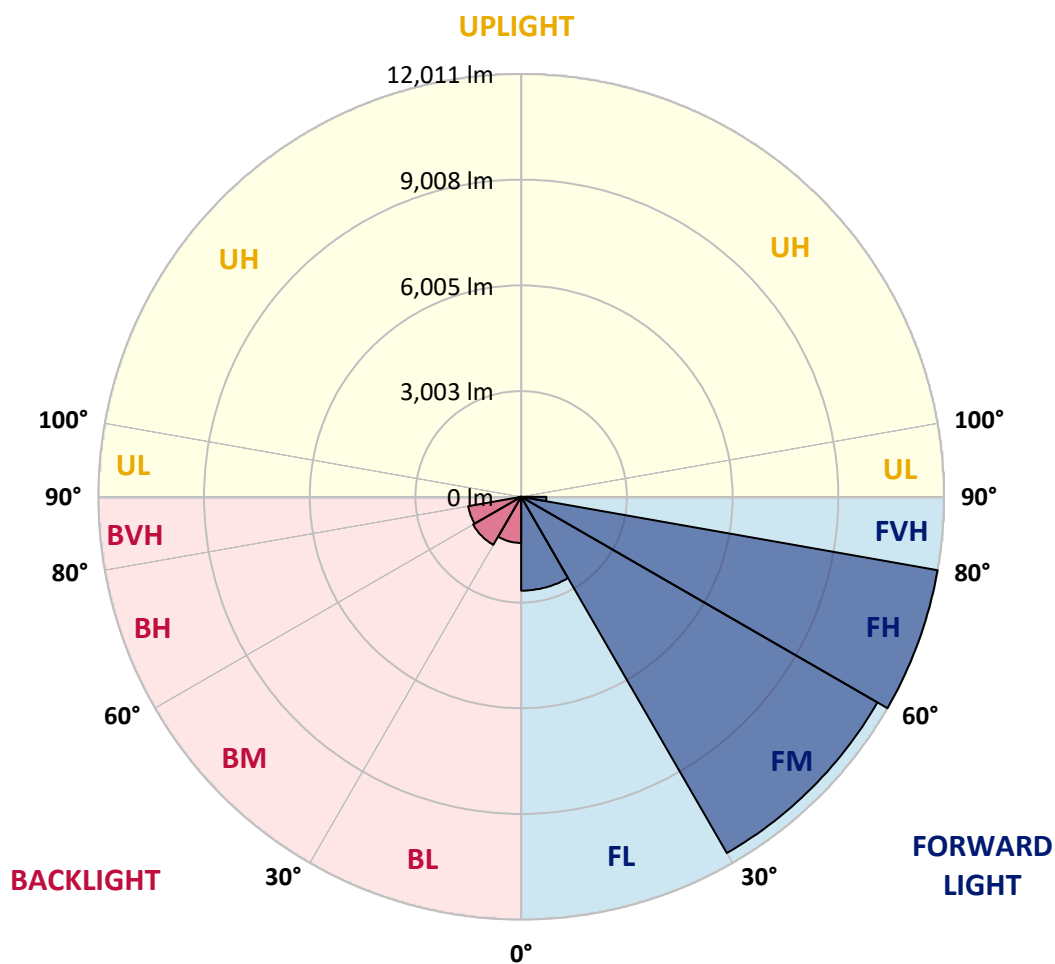
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2665.4	8.4			
FM	(30°-60°)	11684.3	37.0			
FH	(60°-80°)	12010.7	38.0			G5
FVH	(80°-90°)	715.7	2.3			G4/750
BL	(0°-30°)	1310.2	4.2	B3/2500		
BM	(30°-60°)	1577.8	5.0	B2/2500		
BH	(60°-80°)	1526.8	4.8	B3/2500		G3/2500
BVH	(80°-90°)	76.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	8043.7	8043.7	8043.7	8043.7	8043.7	8043.7	8043.7	8043.7	8043.7	8043.7	8043.7
2.5°	8208.5	8226.7	8219.1	8214.5	8228.4	8207.0	8162.8	8149.0	8127.7	8077.3	7992.0
5°	7900.4	7955.3	7952.3	7993.5	8062.1	8080.4	8060.6	8063.7	8024.0	7961.5	7819.6
7.5°	7368.2	7391.2	7403.3	7493.3	7618.3	7718.9	7804.4	7831.8	7813.5	7760.1	7577.1
10°	6819.3	6837.7	6866.6	6971.9	7130.4	7269.1	7430.8	7523.8	7563.5	7554.3	7350.0
12.5°	6348.1	6366.4	6404.6	6523.5	6712.6	6883.4	7118.2	7234.0	7328.7	7385.1	7165.4
15°	5925.6	5965.3	6001.9	6139.2	6351.1	6575.3	6840.6	6987.0	7133.4	7259.9	7002.3
17.5°	5596.4	5636.0	5657.3	5782.4	6008.0	6282.5	6593.6	6766.0	6948.9	7156.3	6840.6
20°	5405.7	5424.0	5414.9	5485.1	5687.8	5979.1	6348.1	6547.9	6768.9	7058.7	6679.0
22.5°	5352.4	5353.9	5320.4	5312.7	5443.9	5689.3	6085.8	6328.3	6599.7	6994.7	6540.3
25°	5482.0	5477.3	5385.9	5311.2	5325.0	5468.2	5832.7	6114.8	6457.9	6980.9	6433.5
27.5°	5770.2	5783.8	5648.1	5507.9	5369.1	5364.5	5640.6	5937.9	6342.1	7043.5	6387.8
30°	6174.2	6197.1	6052.3	5873.9	5613.0	5398.1	5565.8	5832.7	6270.4	7173.1	6380.2
32.5°	6616.5	6640.9	6531.1	6343.6	6001.9	5605.5	5617.7	5841.9	6267.3	7354.6	6432.0
35°	7087.6	7115.2	7058.7	6900.2	6520.5	5988.3	5816.0	5989.8	6366.4	7632.1	6570.8
37.5°	7613.7	7656.5	7671.7	7520.8	7115.2	6492.9	6140.7	6270.4	6590.6	8017.9	6825.4
40°	8371.7	8431.1	8426.5	8210.0	7796.7	7174.6	6642.4	6676.0	6939.8	8533.2	7232.5
42.5°	9823.4	9835.5	9455.9	8984.6	8547.1	7891.4	7234.0	7206.6	7421.7	9186.0	7831.8
45°	11670.0	11619.6	10774.9	9864.5	9330.8	8714.7	8004.2	7870.0	8033.2	9981.9	8582.1
47.5°	13202.5	13086.6	12019.2	10762.7	10160.3	9609.9	8908.5	8673.5	8763.5	10884.6	9551.9
50°	13734.7	13647.8	12763.3	11509.9	10945.7	10701.7	10021.6	9689.1	9713.5	11961.2	10688.0
52.5°	13620.4	13608.1	13018.0	12002.4	11680.7	11848.4	11598.3	11148.5	10910.6	13156.8	11913.9
55°	13350.4	13376.4	13162.9	12575.7	12520.9	12955.4	13658.5	13326.1	12586.4	14362.9	13181.1
57.5°	12412.6	12479.7	12949.4	13297.1	13873.4	14520.0	15317.5	15223.0	14390.4	15666.6	14687.7
60°	10000.3	10155.7	11415.3	13156.8	15265.7	17287.6	17644.5	17424.8	16250.7	17284.6	16677.8
62.5°	7006.9	7168.5	8666.0	11391.0	15037.0	20413.7	21804.5	20857.5	18922.4	19668.1	19253.2
65°	3751.2	3829.0	4972.7	7903.5	12694.8	21058.7	27884.2	26443.2	23152.4	22606.5	21456.8
67.5°	2069.3	2112.0	2549.6	3990.5	8130.7	18544.2	31757.4	32846.2	28439.2	24562.9	21055.7
69°	1871.1	1910.7	2197.3	3022.3	5440.8	15332.8	31379.2	34534.2	30757.0	24369.3	19573.5
70°	1829.9	1866.4	2124.2	2786.0	4403.9	12638.3	30112.0	34102.6	31309.0	23675.5	18280.3
72.5°	1646.9	1686.5	1936.6	2502.4	3763.4	6300.9	23852.4	28834.2	28425.4	20528.0	13865.9
75°	1535.5	1572.1	1996.0	2450.4	3603.4	3987.6	15724.7	21250.9	20895.7	14360.0	7476.5
77.5°	657.2	654.1	925.7	2073.8	3656.7	3861.0	8449.4	13275.6	12112.2	6137.6	2147.1
80°	439.2	431.6	439.2	610.0	3353.2	3882.4	4426.7	6738.4	5090.1	1564.5	1058.2
82.5°	378.1	372.0	385.8	372.0	1178.7	4431.3	3763.4	3583.4	2420.0	889.1	524.6
85°	254.7	243.9	332.4	334.0	556.5	3937.2	4239.2	3026.9	1957.9	527.6	259.3
87.5°	122.1	119.0	193.6	236.3	326.3	1599.7	4756.2	3101.7	1974.8	269.9	123.5
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°	8043.7	8043.7	8043.7	8043.7	8043.7	8043.7	8043.7	8043.7	8043.7	8043.7	8043.7
2.5°	7966.0	7903.5	7842.5	7769.3	7693.1	7607.7	7565.0	7522.3	7511.6	7499.4	7456.7
5°	7746.5	7658.0	7505.6	7337.8	7160.9	6988.6	6857.4	6775.0	6712.6	6680.5	6624.2
7.5°	7462.9	7333.2	7066.4	6776.6	6479.3	6207.8	5972.9	5825.0	5684.8	5619.2	5544.5
10°	7192.9	6999.2	6584.5	6157.6	5730.5	5320.4	4934.5	4661.5	4419.1	4283.4	4187.4
12.5°	6961.1	6695.9	6120.9	5542.9	4957.4	4373.4	3795.4	3341.0	2961.4	2761.5	2659.4
15°	6735.4	6415.2	5680.2	4946.7	4195.0	3400.4	2641.2	2125.7	1811.5	1686.5	1643.8
17.5°	6531.1	6120.9	5238.0	4345.9	3408.2	2447.4	1775.0	1491.4	1370.8	1329.6	1316.0
20°	6310.0	5823.5	4779.0	3717.6	2587.7	1710.9	1386.2	1261.1	1212.3	1200.1	1193.9
22.5°	6096.5	5530.8	4339.9	3045.2	1858.8	1320.5	1190.9	1139.1	1131.5	1142.2	1142.2
25°	5915.1	5268.5	3865.6	2342.2	1364.7	1111.6	1066.0	1053.7	1082.6	1122.3	1130.0
27.5°	5779.4	5053.5	3360.9	1729.2	1087.2	966.8	965.3	985.1	1056.7	1133.0	1148.2
30°	5686.3	4849.2	2821.1	1247.4	911.9	850.9	875.2	918.0	1023.2	1131.5	1160.5
32.5°	5639.1	4698.1	2258.4	965.3	780.7	747.3	788.5	840.2	943.9	1044.5	1082.6
35°	5675.7	4586.9	1727.7	805.1	689.2	663.3	706.1	756.3	817.4	860.1	889.1
37.5°	5812.9	4542.7	1303.8	721.2	626.7	602.3	635.9	664.9	689.2	701.5	715.2
40°	6108.6	4589.9	1044.5	678.6	591.6	561.1	574.9	585.5	600.8	613.1	619.1
42.5°	6544.8	4731.7	936.3	661.8	573.4	529.2	526.1	530.7	550.4	573.4	578.0
45°	7154.8	4981.7	928.7	672.5	564.3	503.2	489.5	495.6	526.1	561.1	567.3
47.5°	7934.0	5363.0	989.7	704.5	571.9	489.5	466.6	474.3	512.3	559.6	567.3
50°	8877.9	5895.2	1091.8	751.8	605.4	492.5	459.0	463.6	503.2	555.0	562.6
52.5°	9992.7	6650.1	1203.2	797.5	640.5	512.3	465.1	454.4	491.0	536.8	545.9
55°	11232.4	7618.3	1317.5	838.7	658.8	536.8	477.3	442.2	468.1	506.3	513.8
57.5°	12754.2	8972.5	1515.8	878.3	671.0	553.5	489.5	430.1	439.2	466.6	472.8
60°	14814.4	10887.6	1864.9	943.9	698.3	559.6	488.0	419.3	410.2	425.4	428.6
62.5°	17283.0	12967.7	2156.2	1026.3	744.2	564.3	478.8	411.7	385.8	385.8	388.9
65°	18748.6	13524.2	1994.5	1094.9	782.3	559.6	468.1	404.2	367.5	350.7	352.3
67.5°	17505.7	11894.2	1709.4	1108.6	780.7	538.3	451.4	390.4	349.2	323.3	321.8
69°	15948.8	10262.5	1581.3	1072.1	744.2	510.8	430.1	375.1	335.4	308.0	306.5
70°	14693.8	9266.8	1497.4	1032.4	704.5	491.0	413.2	361.4	324.8	298.9	295.9
72.5°	10683.4	6072.1	1279.4	887.5	580.9	411.7	356.8	317.2	289.7	274.5	271.4
75°	5338.6	2895.8	1038.4	719.8	445.2	329.4	292.9	265.3	251.7	248.6	247.0
77.5°	1753.6	1326.6	742.6	536.8	330.9	257.8	236.3	216.6	213.5	222.7	219.6
80°	963.7	771.6	471.2	355.3	225.7	189.1	186.1	175.4	180.0	195.1	192.2
82.5°	491.0	401.1	291.2	213.5	152.5	135.7	147.9	141.8	147.9	161.6	160.1
85°	242.4	219.6	184.5	129.6	100.6	87.0	105.2	109.8	112.9	123.5	123.5
87.5°	140.3	129.6	97.6	60.9	50.4	45.8	60.9	59.4	70.2	76.3	74.8
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)