

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: P458116

Luminaire Tested: **GALN-SA9C-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458116
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA 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: 57531 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): 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: 24 FT

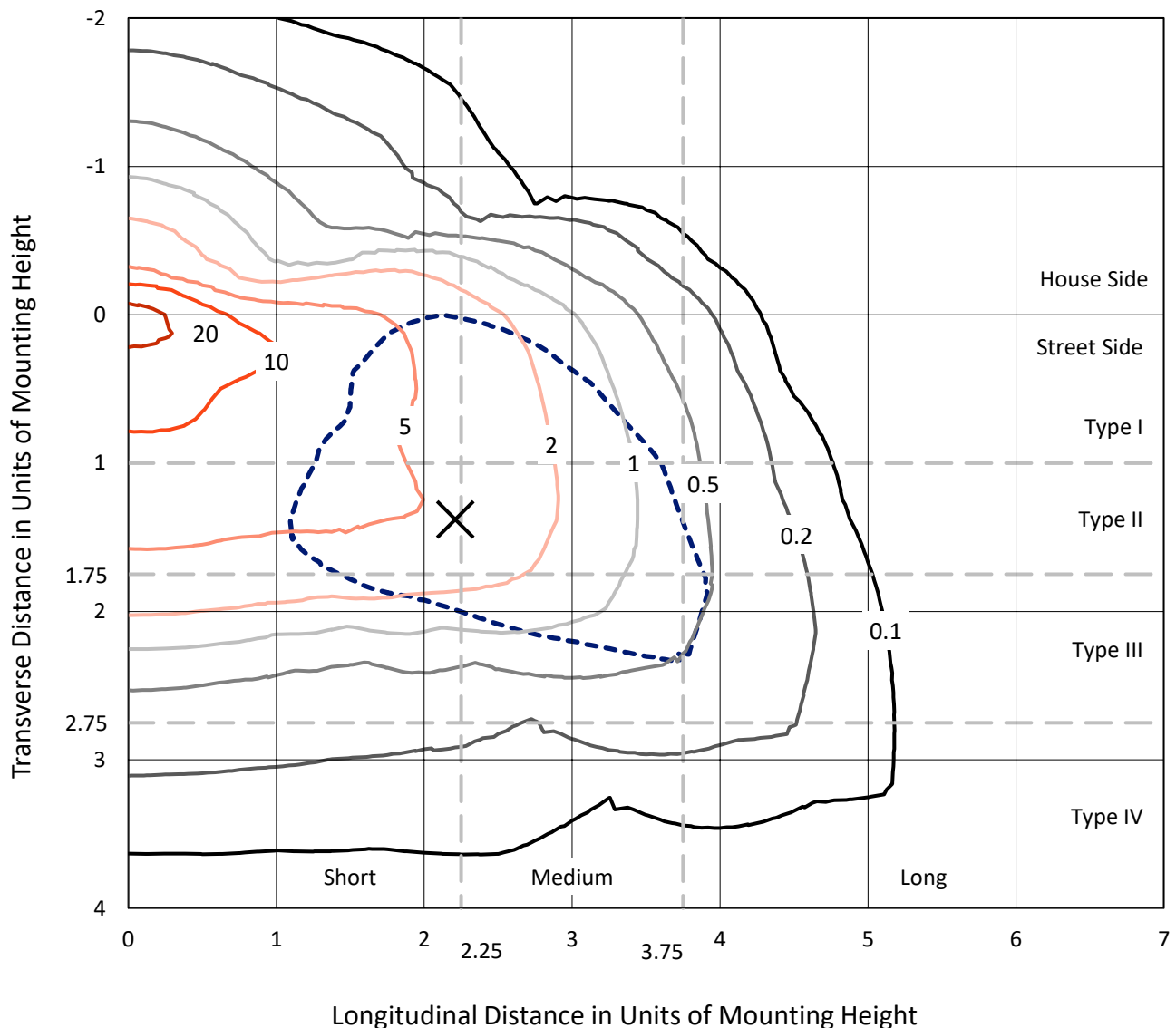


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Iso-Footcandle Lines of Horizontal Illumination

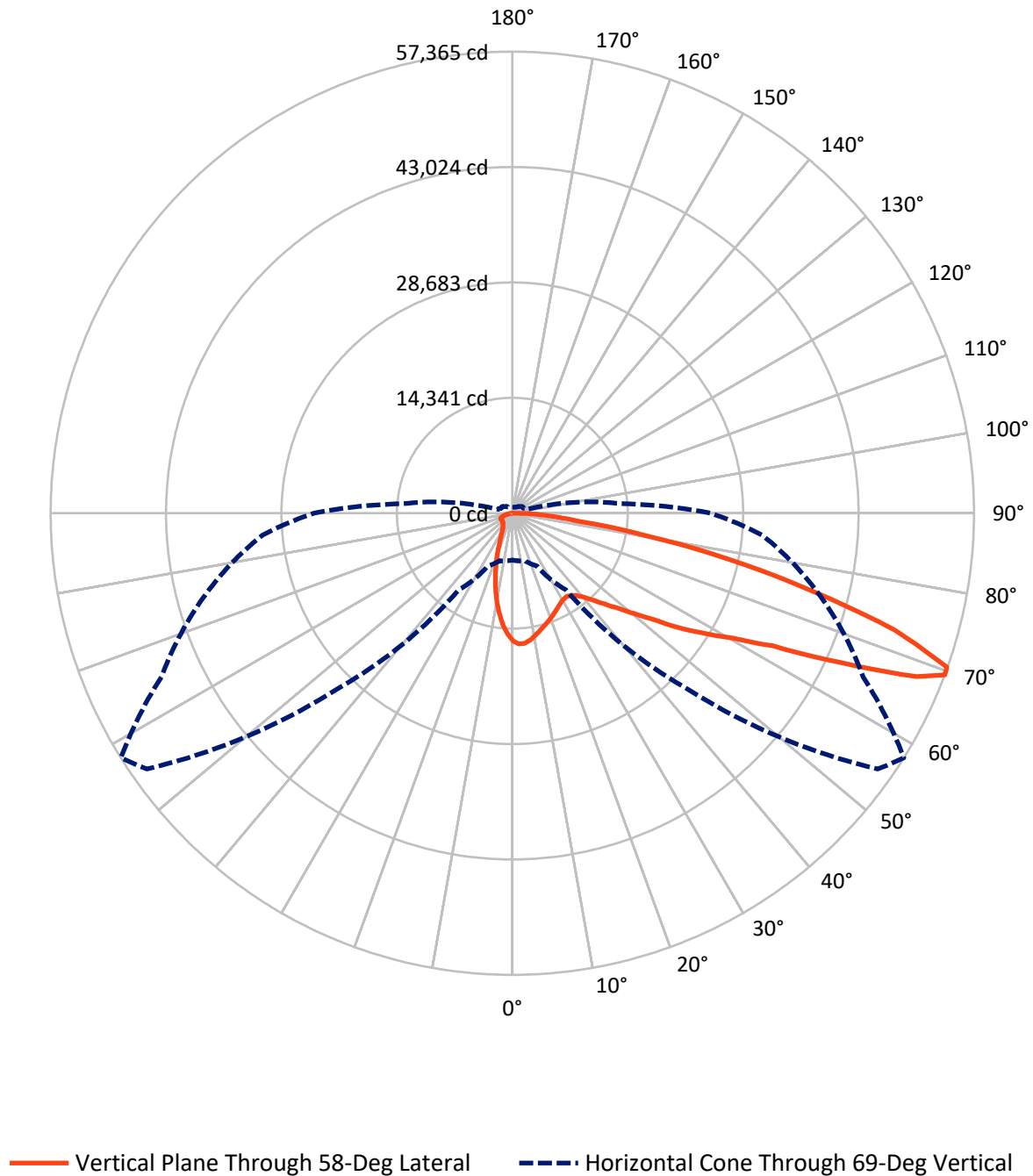
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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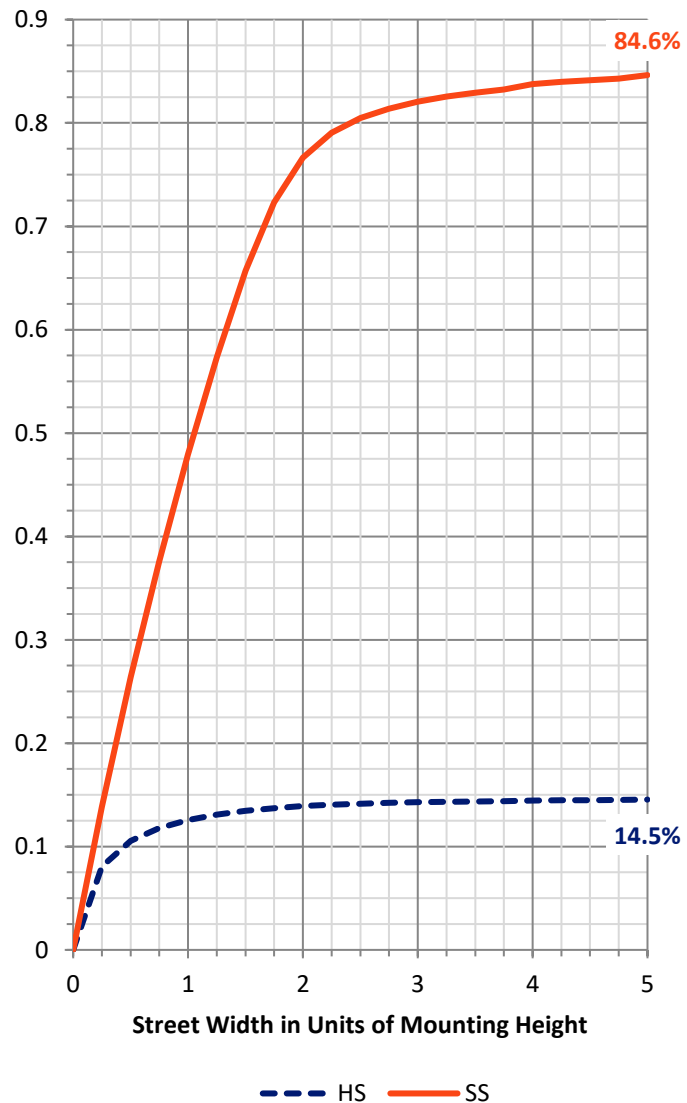
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8431.2	0.0	8431.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	49099.8	0.0	49099.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	57531.0	0.0	57531.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1350.1	2.3
10°-20°	2964.7	5.2
20°-30°	3830.4	6.7
30°-40°	4975.0	8.6
40°-50°	7232.9	12.6
50°-60°	11541.3	20.1
60°-70°	15417.7	26.8
70°-80°	8887.7	15.4
80°-90°	1331.2	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°	57531.0	100.0
0°-180°	57531.0	100.0

Coefficient of Utilization



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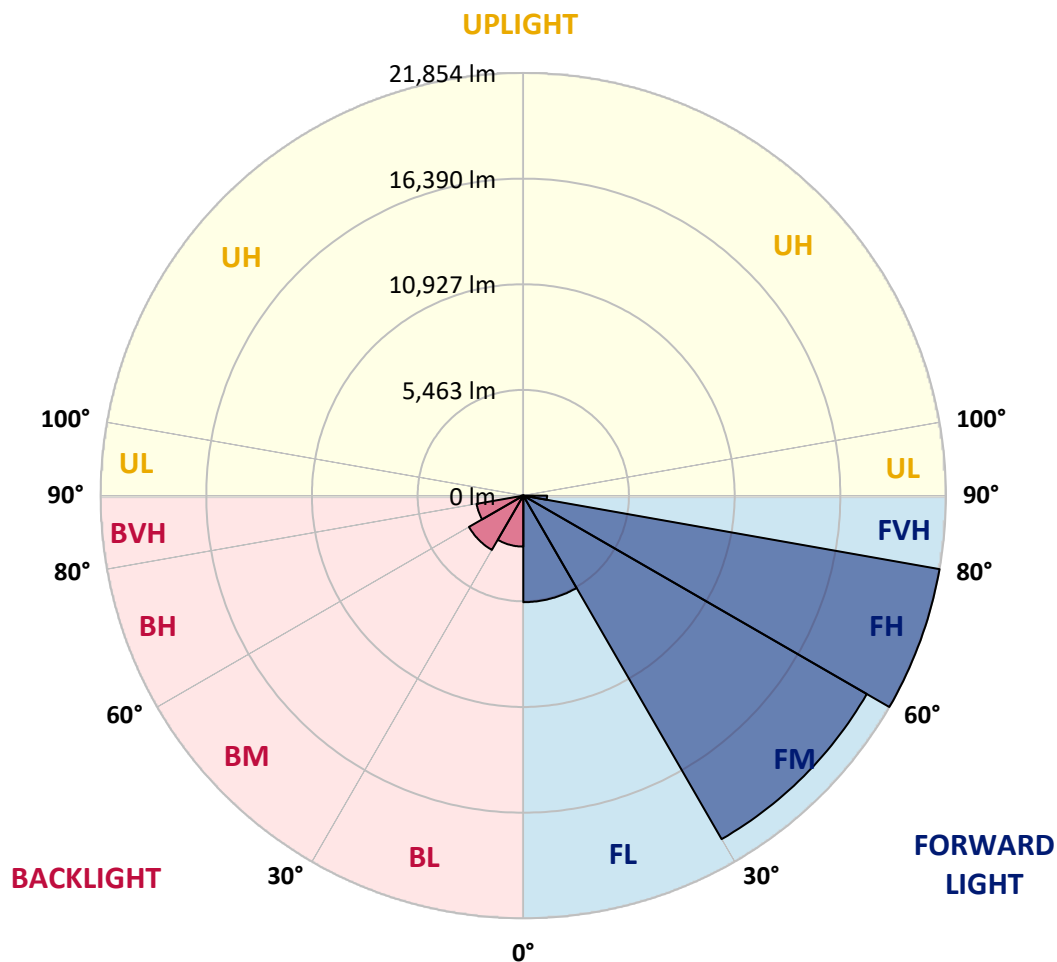
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5510.0	9.6			
FM	(30°-60°)	20506.8	35.6			
FH	(60°-80°)	21853.8	38.0			G5
FVH	(80°-90°)	1229.2	2.1			G5
BL	(0°-30°)	2635.2	4.6	B4/5000		
BM	(30°-60°)	3242.3	5.6	B3/5000		
BH	(60°-80°)	2451.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	102.0	0.2			G2/225
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°	58°	65°	75°	85°
0°	15898.2	15898.2	15898.2	15898.2	15898.2	15898.2	15898.2	15898.2	15898.2	15898.2	15898.2
2.5°	16488.6	16533.5	16520.7	16504.6	16478.9	16408.4	16292.8	16273.6	16199.8	16042.6	15846.9
5°	16235.1	16273.6	16276.8	16299.3	16331.4	16318.5	16235.1	16225.5	16116.4	15904.6	15577.3
7.5°	15365.6	15416.9	15529.2	15654.4	15766.7	15872.5	15898.2	15914.2	15846.9	15603.0	15166.7
10°	14387.0	14438.3	14489.7	14675.8	14951.7	15214.8	15433.0	15461.8	15477.9	15253.3	14720.7
12.5°	13302.5	13408.4	13517.5	13793.4	14162.4	14576.3	14961.3	15022.3	15131.4	14961.3	14335.7
15°	12381.7	12490.8	12648.0	12895.0	13341.0	13937.8	14480.0	14579.5	14794.5	14707.8	13976.3
17.5°	11743.2	11781.7	11890.8	12173.1	12654.4	13283.3	14008.4	14207.3	14550.6	14528.2	13668.3
20°	11239.4	11287.6	11354.9	11528.2	12028.7	12692.9	13568.8	13825.5	14290.7	14367.7	13363.5
22.5°	11027.7	11063.0	11053.3	11146.4	11486.5	12153.9	13122.8	13427.6	14059.7	14258.6	13081.1
25°	11040.5	11072.6	11024.5	11002.0	11204.1	11679.0	12657.6	13045.8	13873.6	14184.9	12824.4
27.5°	11255.5	11277.9	11188.1	11098.3	11114.3	11383.8	12272.6	12702.5	13716.4	14216.9	12609.5
30°	11544.2	11586.0	11528.2	11419.1	11300.4	11313.2	12025.5	12449.0	13642.6	14329.2	12506.8
32.5°	11916.4	11954.9	11929.3	11842.6	11688.6	11518.6	11964.6	12356.0	13649.0	14557.0	12484.3
35°	12307.9	12384.9	12426.6	12420.2	12295.0	11999.9	12205.2	12529.3	13803.0	14938.9	12615.9
37.5°	12750.6	12814.8	12994.5	13110.0	12994.5	12651.2	12747.4	12972.0	14143.1	15490.7	12904.7
40°	13180.6	13276.8	13539.9	13899.3	13854.4	13552.8	13575.2	13722.8	14743.1	16312.1	13469.4
42.5°	13629.8	13745.3	14204.1	14736.7	14842.6	14608.4	14669.3	14800.9	15596.6	17451.1	14438.3
45°	14207.3	14345.3	14910.0	15574.1	15991.2	15846.9	16020.1	16084.3	16738.8	18933.5	15715.3
47.5°	14951.7	15112.1	15808.4	16636.2	17226.5	17358.1	17659.7	17621.2	18153.8	20688.5	17370.9
50°	16206.2	16296.1	16953.8	17797.6	18609.4	19203.0	19530.2	19591.2	19908.8	22395.4	19222.2
52.5°	17698.2	17778.4	18253.3	18991.2	20008.3	21266.0	22074.6	21875.7	21952.7	24474.6	21388.0
55°	19376.2	19511.0	19812.6	20303.5	21622.2	23473.5	25097.0	25145.1	24291.7	26463.8	23463.9
57.5°	20675.7	20903.5	21420.1	22119.5	23791.2	25928.0	28109.8	28141.9	27051.0	28587.9	25754.8
60°	20021.1	20290.7	21471.4	23175.1	26637.1	30211.4	31709.8	31526.9	29736.5	31007.1	28549.4
62.5°	17197.6	17245.8	18962.3	21625.4	27513.0	35941.8	37068.0	36294.7	33320.4	34074.4	31388.9
65°	11130.3	11444.8	12805.2	16536.7	24635.0	39121.4	46456.1	44669.0	38345.0	37555.7	33766.4
67.5°	7026.7	6946.4	7511.1	9442.7	16944.2	36320.4	54467.8	54185.4	44916.0	39753.5	33198.5
69°	5826.7	5916.5	6109.0	7238.4	11659.7	31010.3	55414.3	57365.1	48102.1	39580.3	31135.4
70°	5284.4	5326.1	5528.3	6417.0	8996.7	25972.9	53861.4	57278.4	49353.4	38855.1	29640.3
72.5°	4193.5	4190.3	4536.8	5339.0	6725.1	14826.6	44226.2	49728.8	47954.5	35479.8	24490.6
75°	3186.1	3237.4	3619.2	4517.6	6195.6	8101.5	30862.7	38296.9	38300.1	28023.2	15282.2
77.5°	2297.3	2329.4	2775.4	3792.5	5836.3	6567.8	20557.0	27468.1	25822.1	12840.5	4803.1
80°	1504.8	1524.0	1864.1	3003.2	5262.0	6195.6	12189.2	16812.6	12179.5	3407.4	1588.2
82.5°	824.6	920.8	1139.0	1944.4	4222.4	5724.0	7408.5	8509.0	4568.9	1517.6	827.8
85°	413.9	439.6	641.7	1135.8	2759.3	4735.8	5159.3	4880.2	2358.3	754.0	429.9
87.5°	121.9	154.0	266.3	439.6	1119.8	2467.3	2871.6	2576.4	908.0	272.7	89.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15898.2	15898.2	15898.2	15898.2	15898.2	15898.2	15898.2	15898.2	15898.2	15898.2	15898.2
2.5°	15766.7	15708.9	15452.2	15221.2	15009.4	14784.8	14595.5	14428.7	14444.7	14448.0	14277.9
5°	15407.3	15275.7	14788.1	14332.4	13947.4	13459.7	13042.6	12773.1	12638.3	12458.7	12522.8
7.5°	14919.6	14666.1	13989.1	13231.9	12522.8	11890.8	11204.1	10732.5	10430.9	10138.9	10177.4
10°	14415.9	14008.4	13023.4	12022.3	11104.7	10094.0	9218.1	8467.3	7909.0	7700.4	7562.5
12.5°	13899.3	13363.5	12112.2	10780.6	9513.3	8303.6	7061.9	6256.6	5640.6	5313.3	5355.0
15°	13427.6	12776.3	11162.4	9538.9	7893.0	6452.3	5213.8	4447.0	4017.1	3927.2	3978.6
17.5°	12991.3	12137.8	10273.7	8332.5	6410.6	4838.4	3917.6	3484.4	3311.2	3263.1	3259.9
20°	12542.1	11595.6	9275.8	7042.7	4995.7	3750.8	3214.9	3012.8	2980.7	3000.0	3003.2
22.5°	12086.5	10925.0	8249.1	5762.5	3978.6	3067.3	2810.7	2756.1	2781.8	2826.7	2833.1
25°	11666.2	10334.6	7260.9	4639.5	3176.4	2695.2	2570.0	2570.0	2627.8	2695.2	2698.4
27.5°	11319.6	9763.5	6275.9	3683.4	2659.9	2425.6	2383.9	2406.4	2486.6	2537.9	2541.1
30°	11034.1	9230.9	5345.4	2951.8	2339.0	2210.7	2201.0	2239.5	2297.3	2345.4	2348.6
32.5°	10819.1	8762.5	4475.9	2480.2	2117.6	2047.0	2043.8	2072.7	2104.8	2117.6	2130.5
35°	10735.7	8374.2	3680.2	2181.8	1970.0	1925.1	1925.1	1921.9	1934.7	1941.2	1947.6
37.5°	10803.1	8075.8	3064.1	1989.3	1860.9	1828.9	1809.6	1790.4	1783.9	1783.9	1787.1
40°	11088.6	7918.6	2605.3	1864.1	1783.9	1735.8	1700.5	1678.1	1655.6	1662.0	1668.4
42.5°	11695.0	7947.5	2294.1	1780.7	1716.6	1649.2	1597.8	1572.2	1556.1	1575.4	1572.2
45°	12660.8	8236.3	2095.2	1723.0	1649.2	1562.5	1514.4	1488.8	1488.8	1517.6	1527.3
47.5°	14011.6	8788.1	1989.3	1678.1	1597.8	1495.2	1447.0	1427.8	1434.2	1482.3	1485.5
50°	15660.8	9747.5	1970.0	1655.6	1572.2	1447.0	1392.5	1373.2	1389.3	1440.6	1447.0
52.5°	17480.0	10982.8	2063.1	1658.8	1549.7	1418.2	1347.6	1318.7	1334.7	1376.5	1389.3
55°	19636.1	12529.3	2303.7	1671.6	1517.6	1402.1	1315.5	1251.3	1270.6	1299.4	1302.7
57.5°	21837.2	14480.0	2727.2	1674.8	1492.0	1373.2	1260.9	1177.5	1177.5	1196.8	1206.4
60°	24525.9	16604.1	3285.5	1678.1	1495.2	1331.5	1187.2	1094.1	1081.3	1090.9	1094.1
62.5°	27195.4	18381.6	3378.6	1668.4	1527.3	1289.8	1106.9	1010.7	988.2	985.0	978.6
65°	28372.9	18051.1	2768.9	1623.5	1562.5	1264.2	1042.8	930.5	892.0	879.1	879.1
67.5°	26454.2	15269.3	2082.3	1562.5	1540.1	1238.5	981.8	863.1	818.2	792.5	792.5
69°	24651.0	13581.7	1870.6	1520.8	1482.3	1196.8	943.3	827.8	773.3	744.4	734.8
70°	23258.5	12420.2	1780.7	1485.5	1427.8	1148.6	914.4	802.1	741.2	709.1	702.7
72.5°	18561.3	9744.3	1559.3	1350.8	1216.0	965.8	811.8	721.9	664.2	628.9	619.2
75°	10697.2	5281.2	1293.0	1174.3	978.6	750.8	686.6	628.9	584.0	551.9	542.2
77.5°	3291.9	2040.6	936.9	927.3	718.7	580.7	548.7	526.2	494.1	458.8	452.4
80°	1386.1	1039.6	635.3	625.7	478.1	404.3	394.6	391.4	378.6	349.7	340.1
82.5°	760.4	587.2	442.8	385.0	288.8	234.2	243.8	247.1	237.4	208.6	189.3
85°	372.2	320.9	215.0	173.3	131.5	83.4	80.2	96.3	89.8	64.2	70.6
87.5°	73.8	89.8	57.8	25.7	12.8	0.0	0.0	0.0	0.0	0.0	0.0
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)