

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: P451766

Luminaire Tested: **GALN-SA2C-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9241 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108
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: 24 FT

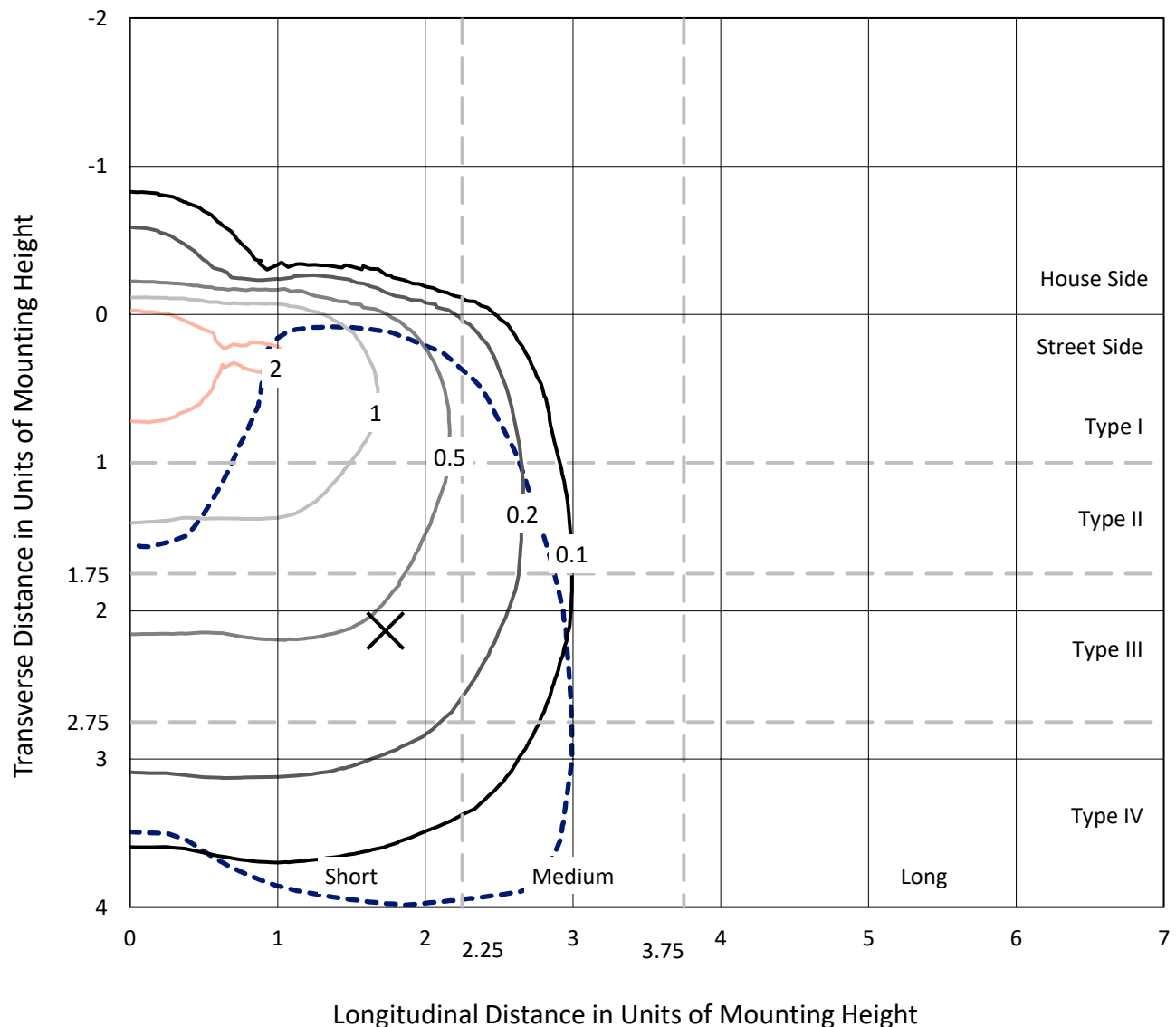


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

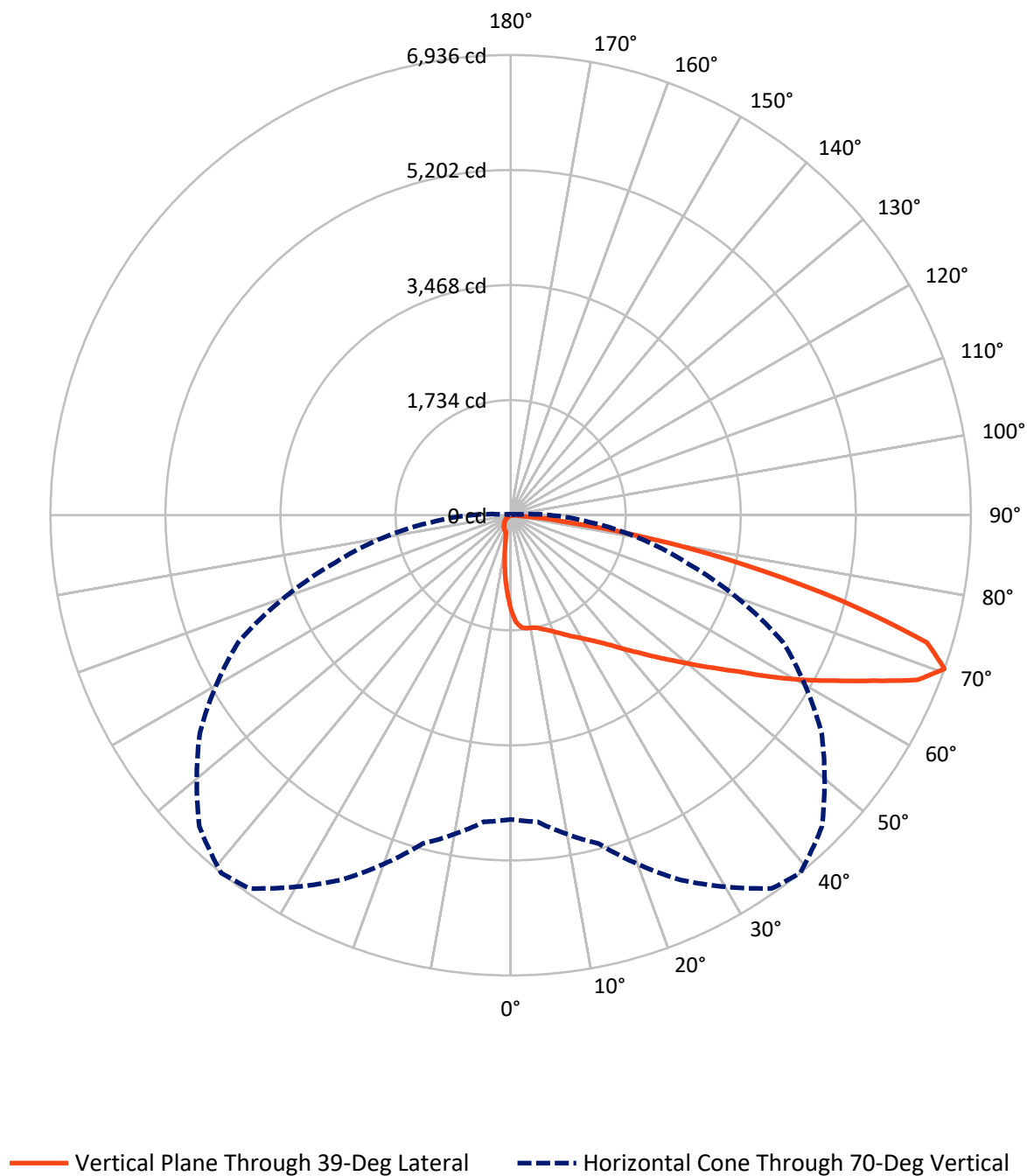


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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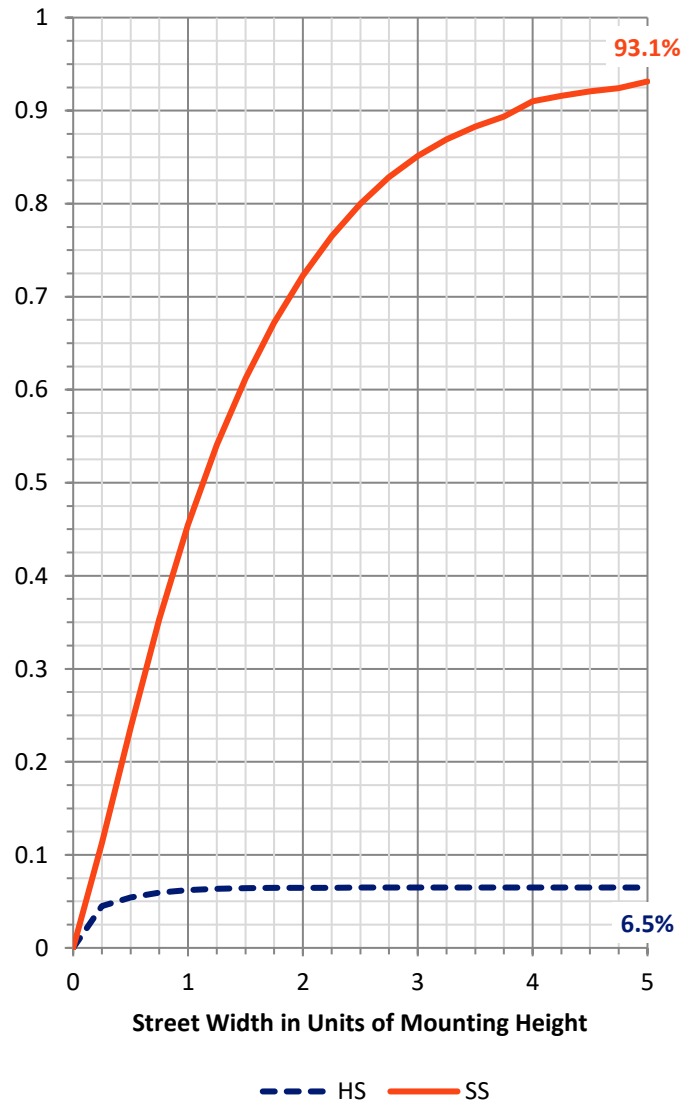
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	602.5	0.0	602.5
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	8638.4	0.0	8638.4
	% Fixture	93.5	0.0	93.5
Total	Lumens	9241.0	0.0	9241.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	1.3
10°-20°	319.6	3.5
20°-30°	535.4	5.8
30°-40°	830.4	9.0
40°-50°	1315.9	14.2
50°-60°	1928.9	20.9
60°-70°	2472.4	26.8
70°-80°	1553.6	16.8
80°-90°	161.8	1.8
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°	9241.0	100.0
0°-180°	9241.0	100.0



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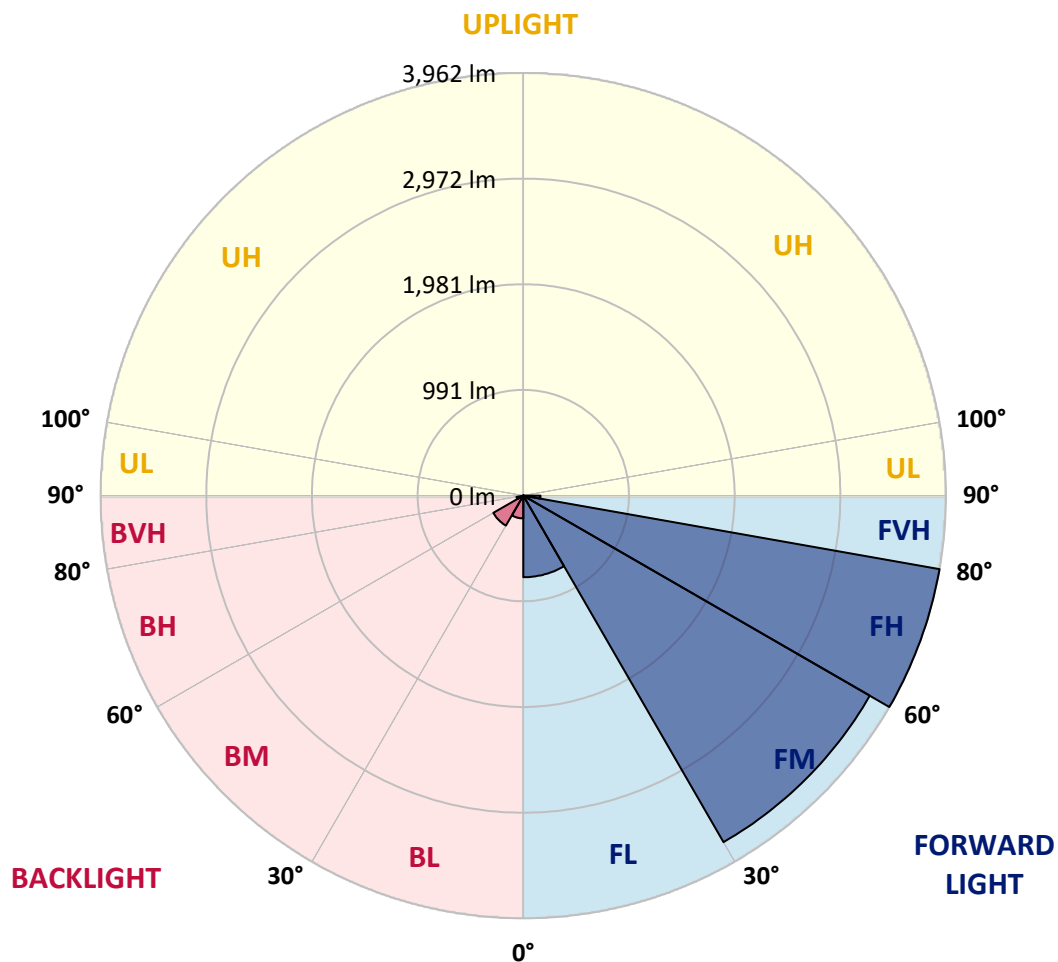
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	764.6	8.3			
FM	(30°-60°)	3750.9	40.6			
FH	(60°-80°)	3962.2	42.9			G2/5000
FVH	(80°-90°)	160.7	1.7			G2/225
BL	(0°-30°)	213.4	2.3	B1/500		
BM	(30°-60°)	324.3	3.5	B1/1000		
BH	(60°-80°)	63.7	0.7	B0/110		G0/110
BVH	(80°-90°)	1.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9
2.5°	1666.1	1660.5	1653.0	1644.4	1619.5	1615.2	1600.3	1568.6	1530.7	1499.7	1456.8
5°	1745.0	1748.1	1742.5	1726.9	1708.9	1698.4	1679.7	1630.7	1581.6	1518.9	1448.7
7.5°	1763.0	1769.2	1762.3	1747.4	1730.0	1718.9	1704.0	1661.7	1604.6	1533.2	1436.9
10°	1761.1	1768.5	1764.2	1750.5	1736.3	1725.7	1709.6	1676.0	1630.1	1554.9	1440.7
12.5°	1758.0	1767.9	1767.3	1760.5	1748.7	1740.6	1730.7	1700.9	1658.0	1586.6	1461.2
15°	1749.3	1761.7	1772.9	1778.5	1779.1	1779.1	1766.7	1735.0	1694.0	1628.2	1487.9
17.5°	1753.0	1767.3	1795.2	1811.4	1822.6	1821.3	1808.3	1774.1	1728.8	1671.1	1515.8
20°	1776.0	1795.2	1834.4	1866.7	1877.8	1874.1	1856.7	1817.0	1765.4	1707.7	1543.1
22.5°	1832.5	1849.9	1899.0	1936.8	1944.9	1935.0	1910.1	1856.1	1809.5	1747.4	1576.0
25°	1917.0	1937.5	1982.8	2011.4	2011.4	2005.8	1971.0	1907.6	1859.2	1802.7	1618.9
27.5°	2019.4	2036.8	2081.5	2107.0	2092.1	2075.9	2041.2	1964.8	1918.2	1872.3	1670.4
30°	2123.1	2134.3	2181.5	2192.7	2177.2	2156.7	2119.4	2043.0	2002.0	1966.6	1745.0
32.5°	2221.2	2245.5	2284.6	2282.1	2261.0	2251.0	2216.9	2135.5	2112.6	2108.8	1849.3
35°	2319.4	2338.0	2372.8	2381.5	2362.8	2361.0	2336.1	2275.9	2276.5	2300.7	2012.0
37.5°	2403.8	2420.6	2461.6	2480.8	2484.5	2493.9	2483.9	2444.2	2500.7	2567.1	2227.5
40°	2474.6	2498.2	2550.4	2583.9	2622.4	2656.5	2658.4	2667.1	2780.7	2895.0	2508.8
42.5°	2529.9	2562.8	2638.5	2700.6	2788.8	2832.3	2867.1	2914.9	3106.1	3276.9	2840.4
45°	2601.9	2639.8	2734.2	2831.7	2969.5	3040.9	3089.4	3217.3	3488.7	3721.5	3180.7
47.5°	2721.1	2741.0	2837.3	2979.5	3160.8	3262.6	3357.0	3550.8	3899.1	4107.8	3463.8
50°	2874.5	2887.6	2960.2	3157.7	3392.4	3526.5	3698.6	3926.4	4325.1	4428.2	3624.0
52.5°	3044.0	3048.4	3103.0	3353.9	3652.0	3820.9	4013.4	4294.7	4672.2	4656.7	3730.2
55°	3240.9	3234.7	3281.3	3566.9	3959.4	4152.5	4376.7	4671.6	4973.4	4818.8	3791.1
57.5°	3466.3	3449.5	3494.9	3849.4	4353.1	4584.1	4812.0	4997.0	5206.9	4954.8	3820.3
60°	3702.3	3668.7	3722.8	4166.8	4816.9	5036.1	5225.5	5275.2	5452.8	5062.8	3770.0
62.5°	3890.4	3891.1	3991.7	4504.6	5293.8	5485.7	5586.3	5631.0	5664.6	5039.2	3505.4
65°	4184.2	4194.1	4354.9	4973.4	5845.9	6012.3	6081.2	5935.9	5673.9	4746.1	3108.0
67.5°	4487.2	4518.9	4813.2	5619.2	6483.6	6617.8	6529.0	5994.9	5420.5	4077.3	2356.6
70°	4585.9	4638.1	5123.1	6063.9	6866.2	6935.7	6635.2	5719.8	4531.3	2726.1	1186.1
72.5°	4202.2	4286.6	4944.9	5901.8	6622.1	6561.9	5936.6	4797.1	2880.7	1035.2	362.0
75°	2963.3	3000.6	4109.6	4895.8	5326.1	5155.4	4515.8	3092.5	1184.8	290.6	124.2
77.5°	1530.1	1512.1	2444.2	3248.3	3798.5	3621.5	2957.1	1600.9	449.0	121.1	77.0
80°	791.1	804.2	1057.5	1702.1	2318.7	2133.7	1576.7	742.1	239.1	67.1	59.0
82.5°	443.4	416.1	607.9	743.3	1084.2	850.1	604.8	525.3	104.3	40.4	55.9
85°	80.7	84.5	333.5	401.8	376.3	239.1	195.0	350.9	30.4	22.4	39.1
87.5°	1.2	1.2	64.6	115.5	73.3	33.5	61.5	50.3	6.2	8.7	6.8
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°	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9
2.5°	1435.1	1411.5	1367.4	1323.9	1268.7	1223.3	1192.9	1161.2	1128.9	1131.4	1138.9
5°	1410.2	1369.3	1282.3	1190.4	1102.2	1022.8	944.5	874.3	845.8	819.7	820.9
7.5°	1385.4	1327.7	1200.4	1056.3	922.8	787.4	689.3	608.6	565.7	533.4	524.1
10°	1374.2	1297.8	1125.2	927.1	737.7	589.9	463.9	398.0	347.1	331.0	335.3
12.5°	1379.2	1282.9	1057.5	810.4	585.0	411.1	322.9	289.4	278.2	276.3	275.1
15°	1388.5	1272.4	991.1	681.2	429.7	305.5	271.4	265.2	263.9	262.7	263.3
17.5°	1400.9	1263.1	920.3	560.1	329.7	267.0	257.1	254.0	253.4	253.4	253.4
20°	1413.3	1252.5	841.4	452.1	275.1	252.1	245.9	244.0	243.4	243.4	242.8
22.5°	1427.6	1243.2	761.3	355.2	253.4	241.6	236.0	234.7	234.1	233.5	233.5
25°	1448.1	1231.4	676.2	290.6	239.7	231.6	226.0	224.8	224.2	221.7	222.3
27.5°	1475.4	1222.7	588.7	250.9	227.3	219.2	215.5	213.6	212.4	210.5	211.1
30°	1512.7	1215.3	495.5	229.1	213.0	206.2	202.4	201.2	200.0	198.1	198.1
32.5°	1577.3	1218.4	397.4	211.8	200.0	191.9	188.2	186.9	185.7	183.8	183.8
35°	1674.2	1236.4	317.9	196.9	184.4	176.4	172.6	172.6	170.8	168.3	167.7
37.5°	1832.5	1282.3	255.2	182.6	169.5	162.1	157.7	156.5	154.6	150.9	150.3
40°	2019.4	1353.7	214.9	168.3	155.9	148.4	144.7	141.0	136.0	132.3	131.6
42.5°	2254.2	1427.0	186.3	154.0	142.8	136.0	131.6	125.4	118.0	113.0	112.4
45°	2498.8	1494.1	167.0	141.0	130.4	124.8	119.8	109.9	100.6	94.4	93.8
47.5°	2681.4	1506.5	151.5	128.5	119.8	114.3	107.4	95.0	82.6	77.0	75.1
50°	2767.7	1446.3	135.4	116.1	109.3	103.1	94.4	80.1	66.4	59.6	58.4
52.5°	2798.1	1341.9	122.3	104.9	98.7	91.3	80.7	64.6	52.2	45.3	44.7
55°	2785.7	1210.3	110.5	94.4	86.3	77.6	67.1	51.5	38.5	32.9	31.7
57.5°	2720.5	1042.6	98.7	83.8	73.9	65.2	53.4	38.5	26.1	21.1	20.5
60°	2544.8	814.1	86.9	72.0	62.7	53.4	42.2	27.3	16.1	11.8	11.8
62.5°	2247.9	604.2	75.8	60.2	52.8	42.8	29.8	17.4	8.7	6.2	5.6
65°	1878.5	445.9	63.3	50.9	44.1	33.5	21.1	10.6	4.3	1.9	1.2
67.5°	1310.9	275.1	52.8	41.6	36.0	24.2	13.0	4.3	1.9	0.0	0.0
70°	595.5	131.0	40.4	31.7	27.3	17.4	6.8	2.5	1.2	0.0	0.0
72.5°	185.1	68.9	28.6	23.0	18.6	11.2	3.7	1.9	1.2	0.0	0.0
75°	85.7	44.1	18.0	12.4	10.6	5.6	2.5	1.2	0.6	0.0	0.0
77.5°	64.0	34.2	10.6	6.8	5.6	3.7	1.9	1.2	0.6	0.0	0.0
80°	55.9	17.4	6.2	4.3	3.1	2.5	1.2	0.6	0.0	0.0	0.0
82.5°	50.3	8.7	3.7	2.5	1.9	1.2	0.6	0.6	0.0	0.0	0.0
85°	27.3	5.0	2.5	1.9	1.2	0.6	0.6	0.0	0.0	0.0	0.0
87.5°	5.0	2.5	1.9	1.2	1.2	0.6	0.6	0.6	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)