

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: P452230

Luminaire Tested: **GALN-SA3A-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452230
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-SA3A-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA 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: 8923 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 93
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

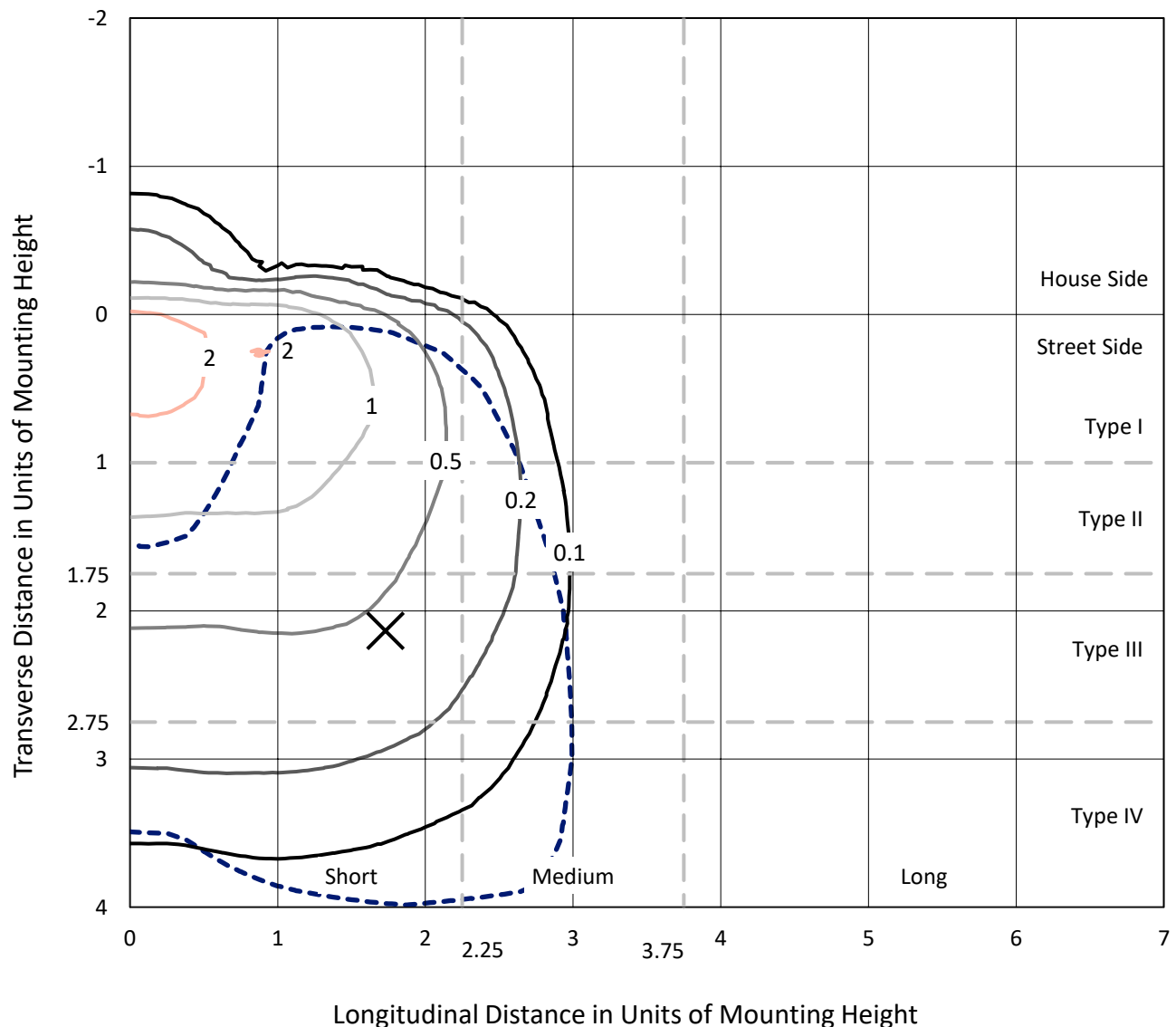


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Iso-Footcandle Lines of Horizontal Illumination

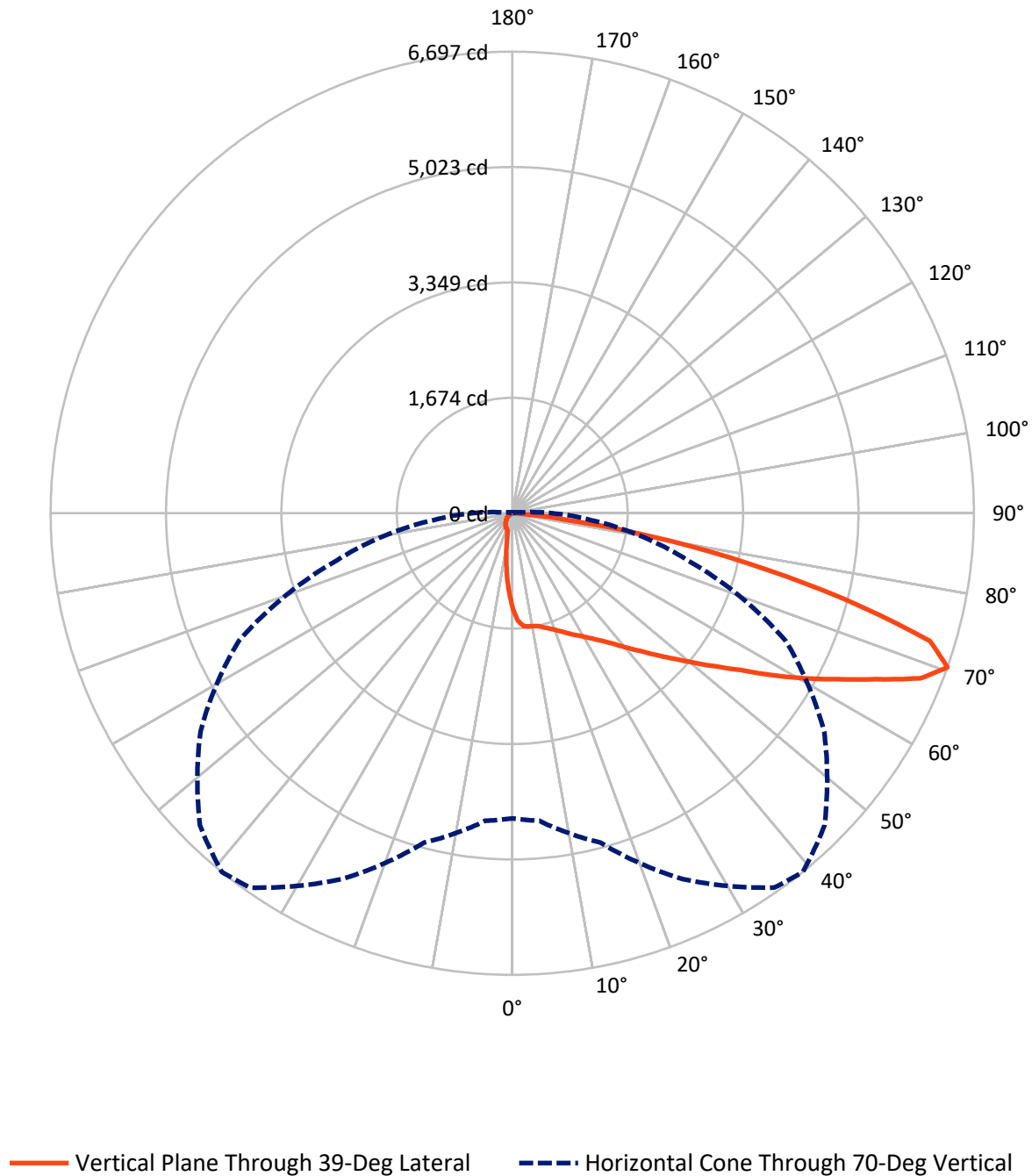
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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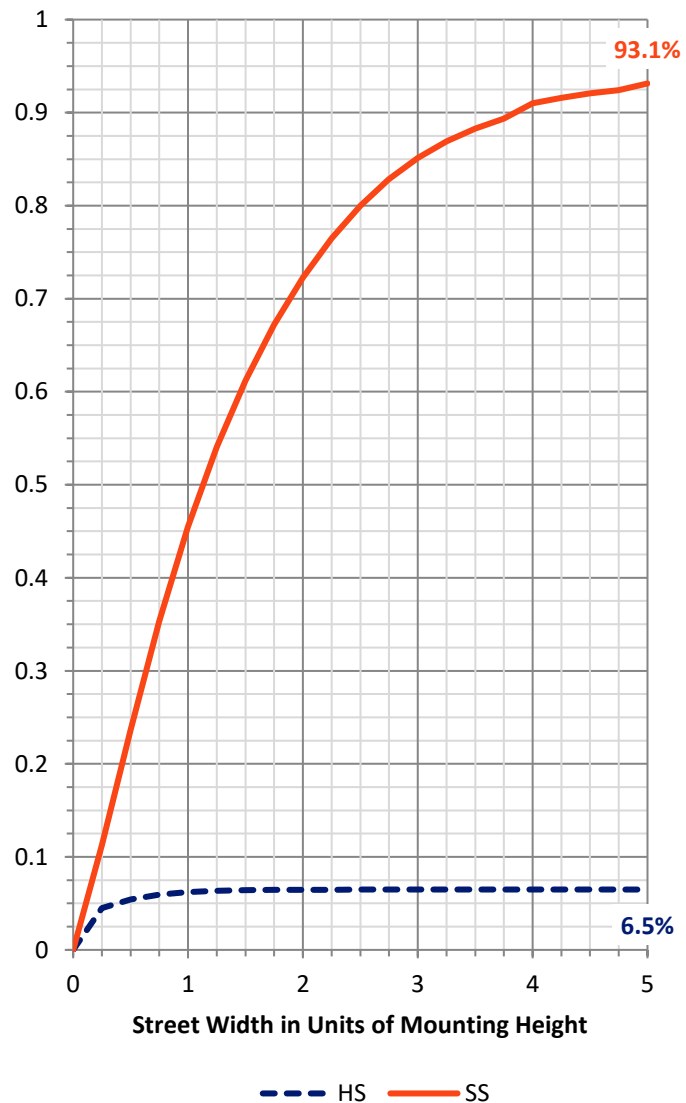
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	581.8	0.0	581.8
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	8341.2	0.0	8341.2
	% Fixture	93.5	0.0	93.5
Total	Lumens	8923.0	0.0	8923.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	1.3
10°-20°	308.6	3.5
20°-30°	517.0	5.8
30°-40°	801.8	9.0
40°-50°	1270.6	14.2
50°-60°	1862.5	20.9
60°-70°	2387.3	26.8
70°-80°	1500.1	16.8
80°-90°	156.3	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°	8923.0	100.0
0°-180°	8923.0	100.0

Coefficient of Utilization



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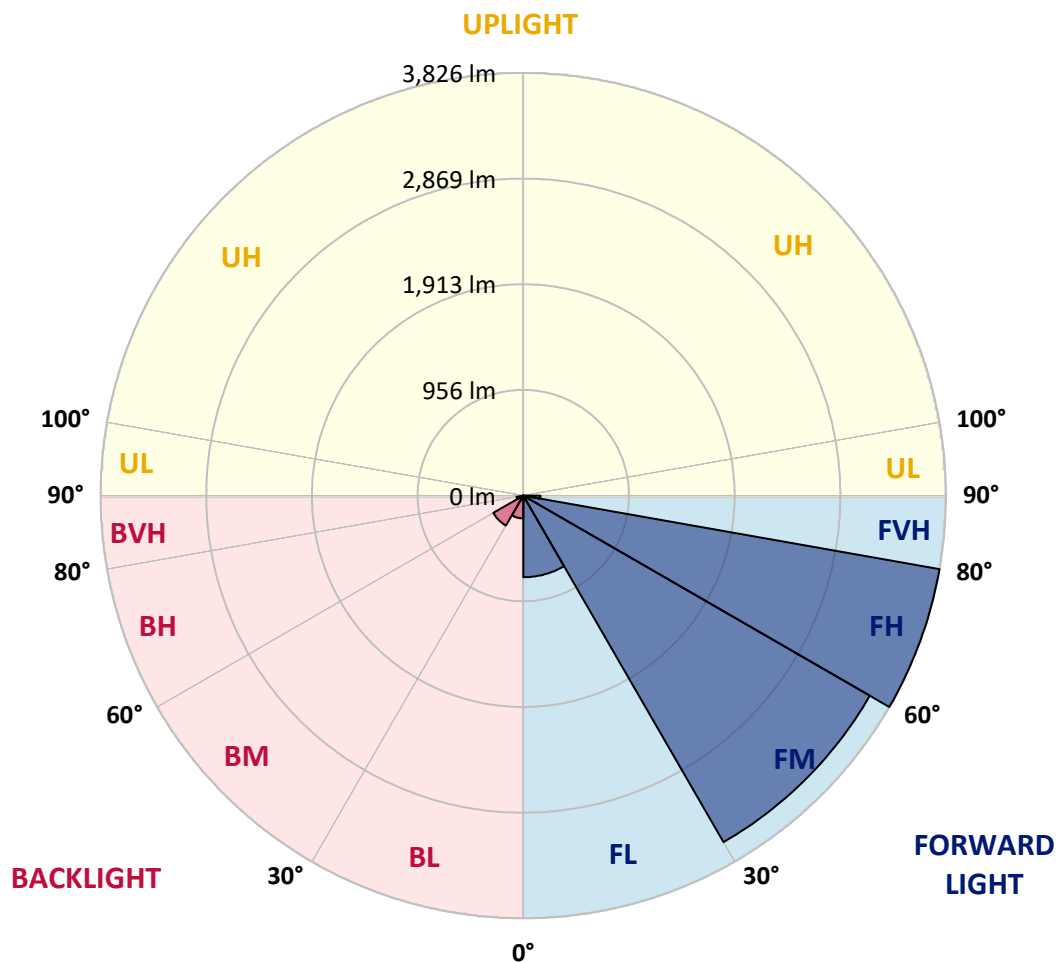
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	738.3	8.3			
FM	(30°-60°)	3621.8	40.6			
FH	(60°-80°)	3825.9	42.9			G2/5000
FVH	(80°-90°)	155.1	1.7			G2/225
BL	(0°-30°)	206.0	2.3	B1/500		
BM	(30°-60°)	313.1	3.5	B1/1000		
BH	(60°-80°)	61.5	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°	1392.3	1392.3	1392.3	1392.3	1392.3	1392.3	1392.3	1392.3	1392.3	1392.3	1392.3
2.5°	1608.8	1603.4	1596.2	1587.8	1563.8	1559.6	1545.2	1514.6	1478.0	1448.1	1406.7
5°	1684.9	1687.9	1682.5	1667.5	1650.1	1639.9	1621.9	1574.6	1527.2	1466.6	1398.9
7.5°	1702.3	1708.3	1701.7	1687.3	1670.5	1659.7	1645.3	1604.6	1549.4	1480.4	1387.5
10°	1700.5	1707.7	1703.5	1690.3	1676.5	1666.3	1650.7	1618.3	1574.0	1501.4	1391.1
12.5°	1697.5	1707.1	1706.5	1699.9	1688.5	1680.7	1671.1	1642.3	1601.0	1532.0	1410.9
15°	1689.1	1701.1	1711.9	1717.3	1717.9	1717.9	1705.9	1675.3	1635.7	1572.2	1436.7
17.5°	1692.7	1706.5	1733.5	1749.1	1759.9	1758.7	1746.1	1713.1	1669.3	1613.6	1463.6
20°	1714.9	1733.5	1771.2	1802.4	1813.2	1809.6	1792.8	1754.5	1704.7	1648.9	1490.0
22.5°	1769.4	1786.2	1833.6	1870.2	1878.0	1868.4	1844.4	1792.2	1747.3	1687.3	1521.8
25°	1851.0	1870.8	1914.6	1942.1	1942.1	1936.7	1903.2	1842.0	1795.2	1740.7	1563.2
27.5°	1949.9	1966.7	2009.9	2034.5	2020.1	2004.5	1970.9	1897.2	1852.2	1807.8	1613.0
30°	2050.1	2060.9	2106.4	2117.2	2102.2	2082.4	2046.5	1972.7	1933.1	1899.0	1684.9
32.5°	2144.8	2168.2	2206.0	2203.6	2183.2	2173.6	2140.6	2062.1	2039.9	2036.3	1785.6
35°	2239.5	2257.5	2291.1	2299.5	2281.5	2279.7	2255.7	2197.6	2198.2	2221.6	1942.7
37.5°	2321.1	2337.3	2376.9	2395.4	2399.0	2408.0	2398.4	2360.1	2414.6	2478.8	2150.8
40°	2389.4	2412.2	2462.6	2495.0	2532.2	2565.1	2566.9	2575.3	2685.1	2795.4	2422.4
42.5°	2442.8	2474.6	2547.7	2607.7	2692.8	2734.8	2768.4	2814.6	2999.2	3164.1	2742.6
45°	2512.4	2548.9	2640.1	2734.2	2867.3	2936.3	2983.1	3106.6	3368.6	3593.5	3071.2
47.5°	2627.5	2646.7	2739.6	2876.9	3052.0	3150.4	3241.5	3428.6	3765.0	3966.4	3344.6
50°	2775.6	2788.2	2858.3	3049.0	3275.7	3405.2	3571.3	3791.3	4176.3	4275.8	3499.3
52.5°	2939.3	2943.5	2996.3	3238.5	3526.3	3689.4	3875.3	4146.9	4511.5	4496.5	3601.9
55°	3129.4	3123.4	3168.3	3444.2	3823.1	4009.6	4226.1	4510.9	4802.3	4653.0	3660.6
57.5°	3347.0	3330.8	3374.6	3717.0	4203.3	4426.3	4646.4	4825.1	5027.7	4784.3	3688.8
60°	3574.9	3542.5	3594.7	4023.4	4651.2	4862.8	5045.7	5093.7	5265.2	4888.6	3640.2
62.5°	3756.6	3757.2	3854.3	4349.6	5111.7	5297.0	5394.1	5437.3	5469.6	4865.8	3384.8
65°	4040.2	4049.8	4205.1	4802.3	5644.7	5805.4	5872.0	5731.7	5478.6	4582.8	3001.0
67.5°	4332.8	4363.4	4647.6	5425.9	6260.5	6390.0	6304.3	5788.6	5234.0	3937.0	2275.5
70°	4428.1	4478.5	4946.8	5855.2	6629.9	6697.0	6406.8	5523.0	4375.4	2632.3	1145.3
72.5°	4057.6	4139.1	4774.7	5698.7	6394.2	6336.1	5732.3	4632.0	2781.6	999.5	349.6
75°	2861.3	2897.3	3968.2	4727.3	5142.9	4978.0	4360.4	2986.1	1144.1	280.6	119.9
77.5°	1477.4	1460.0	2360.1	3136.6	3667.8	3496.9	2855.3	1545.8	433.5	116.9	74.4
80°	763.9	776.5	1021.1	1643.5	2238.9	2060.3	1522.4	716.5	230.8	64.8	57.0
82.5°	428.1	401.7	587.0	717.7	1046.9	820.9	584.0	507.3	100.7	39.0	54.0
85°	77.9	81.5	322.0	387.9	363.4	230.8	188.3	338.8	29.4	21.6	37.8
87.5°	1.2	1.2	62.4	111.5	70.8	32.4	59.4	48.6	6.0	8.4	6.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1392.3	1392.3	1392.3	1392.3	1392.3	1392.3	1392.3	1392.3	1392.3	1392.3	1392.3
2.5°	1385.7	1362.9	1320.3	1278.4	1225.0	1181.2	1151.9	1121.3	1090.1	1092.5	1099.7
5°	1361.7	1322.1	1238.2	1149.5	1064.3	987.6	912.0	844.3	816.7	791.5	792.7
7.5°	1337.7	1282.0	1159.0	1019.9	891.0	760.3	665.6	587.6	546.2	515.1	506.1
10°	1326.9	1253.2	1086.5	895.2	712.3	569.6	447.9	384.3	335.2	319.6	323.8
12.5°	1331.7	1238.8	1021.1	782.5	564.8	396.9	311.8	279.4	268.6	266.8	265.6
15°	1340.7	1228.6	957.0	657.8	414.9	295.0	262.0	256.0	254.8	253.6	254.2
17.5°	1352.7	1219.6	888.6	540.8	318.4	257.8	248.2	245.2	244.6	244.6	244.6
20°	1364.7	1209.4	812.5	436.5	265.6	243.4	237.4	235.6	235.0	235.0	234.4
22.5°	1378.5	1200.4	735.1	343.0	244.6	233.2	227.9	226.7	226.1	225.5	225.5
25°	1398.3	1189.0	653.0	280.6	231.4	223.7	218.3	217.1	216.5	214.1	214.7
27.5°	1424.7	1180.6	568.4	242.2	219.5	211.7	208.1	206.3	205.1	203.3	203.9
30°	1460.6	1173.4	478.5	221.3	205.7	199.1	195.5	194.3	193.1	191.3	191.3
32.5°	1523.0	1176.4	383.8	204.5	193.1	185.3	181.7	180.5	179.3	177.5	177.5
35°	1616.5	1193.8	307.0	190.1	178.1	170.3	166.7	166.7	164.9	162.5	161.9
37.5°	1769.4	1238.2	246.4	176.3	163.7	156.5	152.3	151.1	149.3	145.7	145.1
40°	1949.9	1307.1	207.5	162.5	150.5	143.3	139.7	136.1	131.3	127.7	127.1
42.5°	2176.6	1377.9	179.9	148.7	137.9	131.3	127.1	121.1	113.9	109.1	108.5
45°	2412.8	1442.7	161.3	136.1	125.9	120.5	115.7	106.1	97.1	91.1	90.5
47.5°	2589.1	1454.7	146.3	124.1	115.7	110.3	103.7	91.7	79.7	74.4	72.6
50°	2672.5	1396.5	130.7	112.1	105.5	99.5	91.1	77.3	64.2	57.6	56.4
52.5°	2701.8	1295.8	118.1	101.3	95.3	88.1	77.9	62.4	50.4	43.8	43.2
55°	2689.8	1168.6	106.7	91.1	83.3	75.0	64.8	49.8	37.2	31.8	30.6
57.5°	2626.9	1006.7	95.3	80.9	71.4	63.0	51.6	37.2	25.2	20.4	19.8
60°	2457.2	786.1	83.9	69.6	60.6	51.6	40.8	26.4	15.6	11.4	11.4
62.5°	2170.6	583.4	73.2	58.2	51.0	41.4	28.8	16.8	8.4	6.0	5.4
65°	1813.8	430.5	61.2	49.2	42.6	32.4	20.4	10.2	4.2	1.8	1.2
67.5°	1265.8	265.6	51.0	40.2	34.8	23.4	12.6	4.2	1.8	0.0	0.0
70°	575.0	126.5	39.0	30.6	26.4	16.8	6.6	2.4	1.2	0.0	0.0
72.5°	178.7	66.6	27.6	22.2	18.0	10.8	3.6	1.8	1.2	0.0	0.0
75°	82.7	42.6	17.4	12.0	10.2	5.4	2.4	1.2	0.6	0.0	0.0
77.5°	61.8	33.0	10.2	6.6	5.4	3.6	1.8	1.2	0.6	0.0	0.0
80°	54.0	16.8	6.0	4.2	3.0	2.4	1.2	0.6	0.0	0.0	0.0
82.5°	48.6	8.4	3.6	2.4	1.8	1.2	0.6	0.6	0.0	0.0	0.0
85°	26.4	4.8	2.4	1.8	1.2	0.6	0.6	0.0	0.0	0.0	0.0
87.5°	4.8	2.4	1.8	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)