

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: P453401

Luminaire Tested: **GALN-SA4B-830-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13133 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 164
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

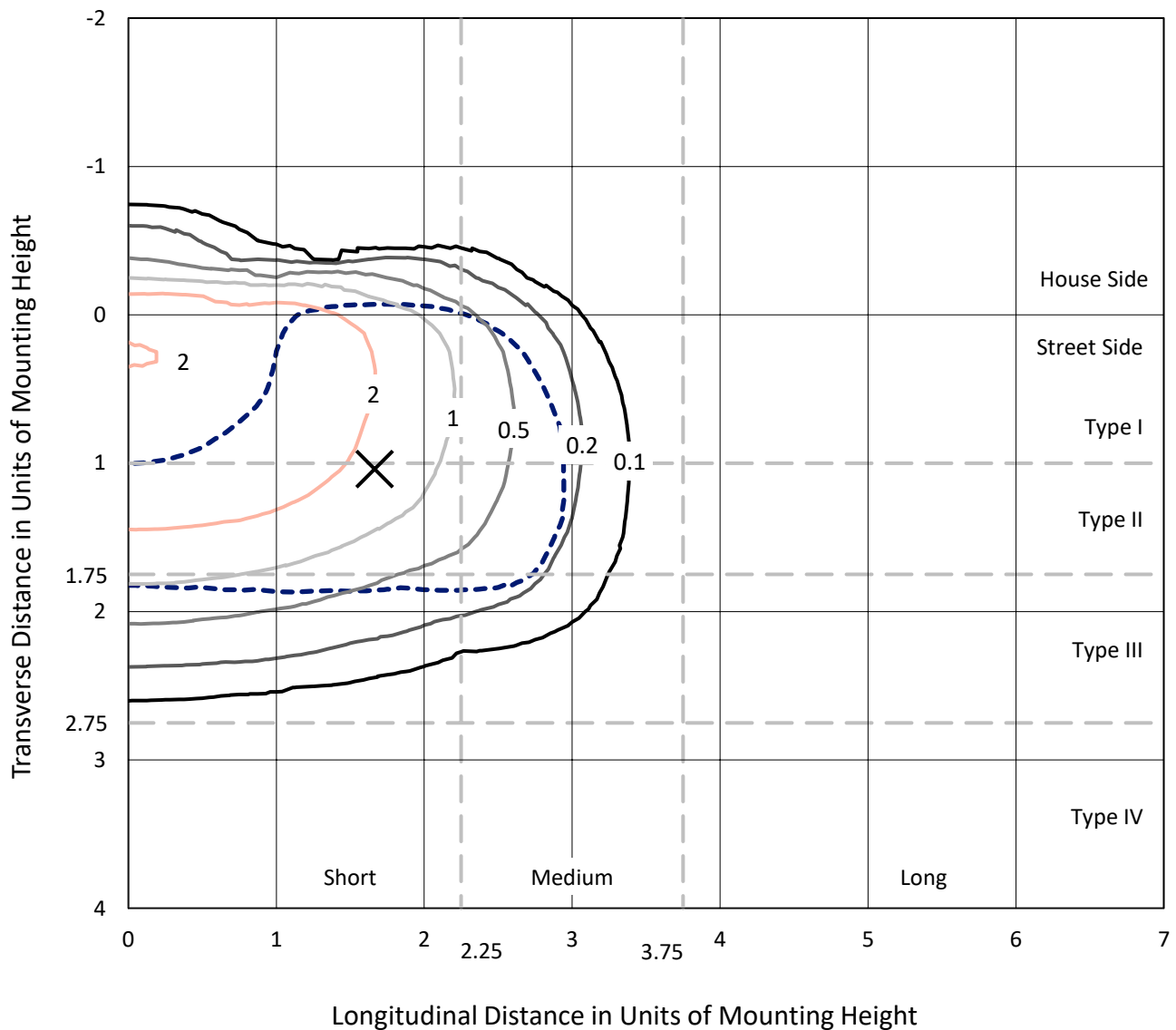


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Iso-Footcandle Lines of Horizontal Illumination

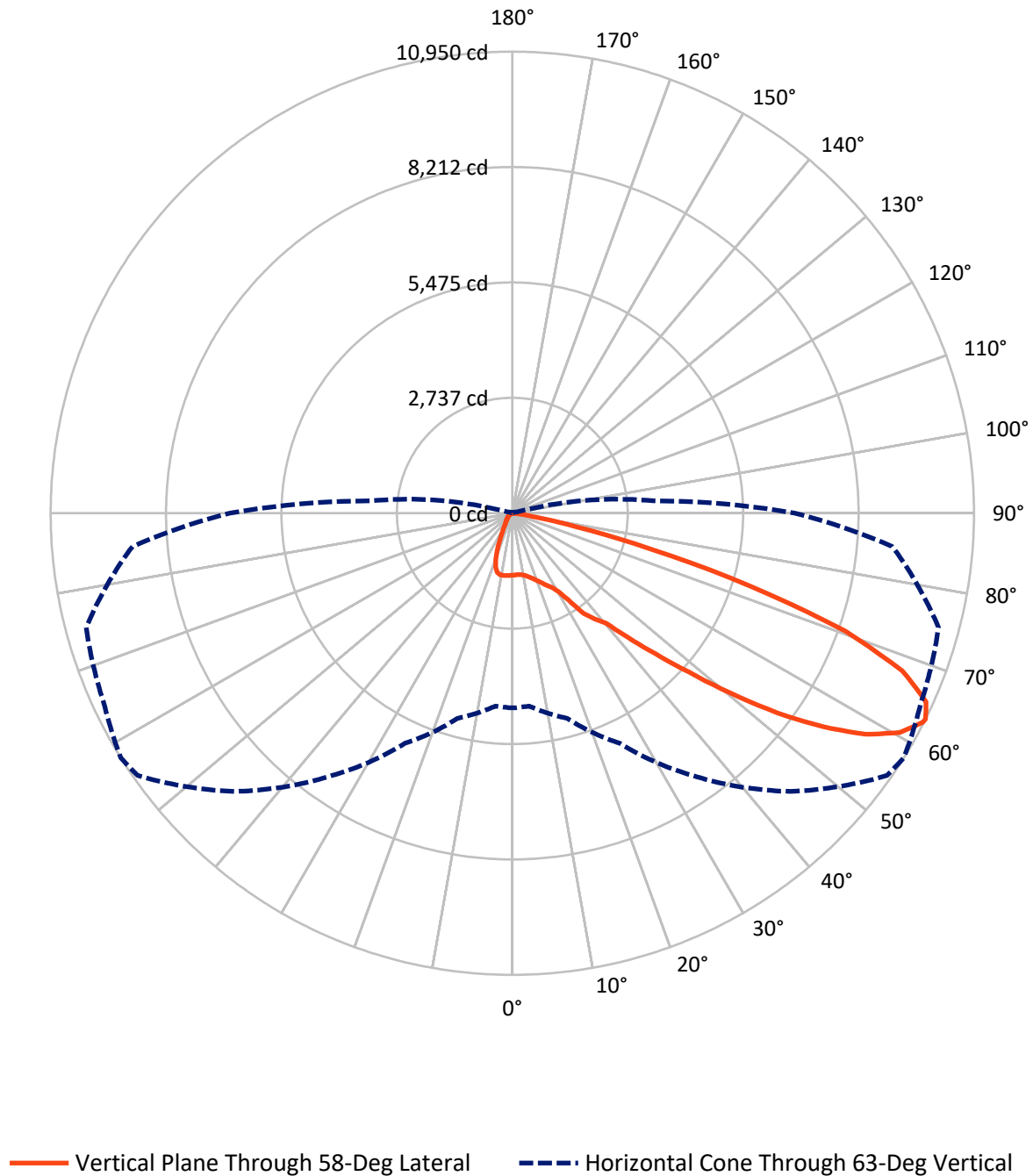
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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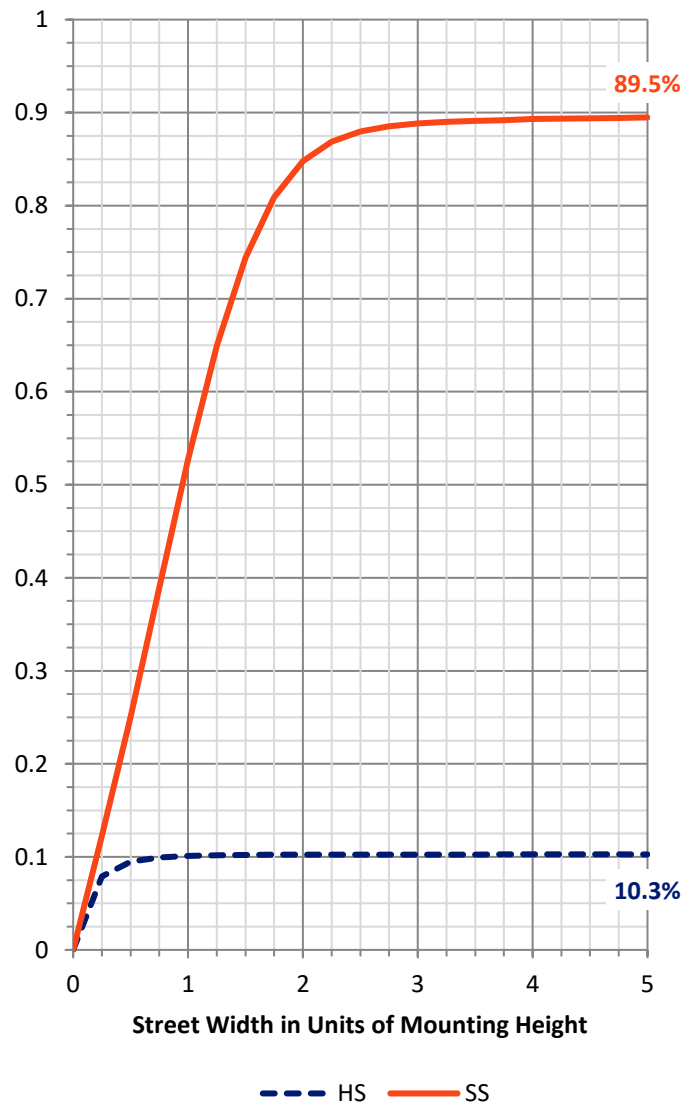
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1359.8	0.0	1359.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	11773.2	0.0	11773.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	13133.0	0.0	13133.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	1.0
10°-20°	374.9	2.9
20°-30°	650.6	5.0
30°-40°	1195.6	9.1
40°-50°	2250.7	17.1
50°-60°	3849.6	29.3
60°-70°	3686.0	28.1
70°-80°	939.9	7.2
80°-90°	48.1	0.4
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°	13133.0	100.0
0°-180°	13133.0	100.0

Coefficient of Utilization



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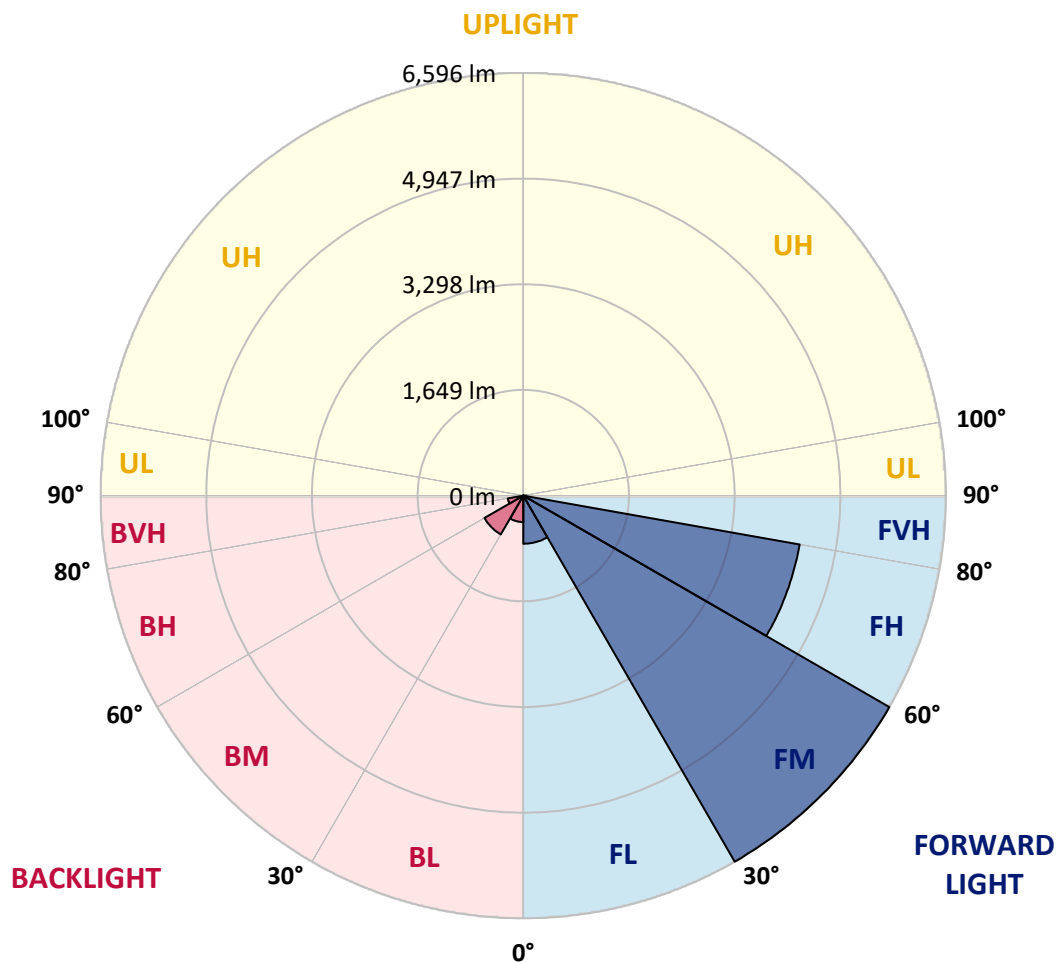
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	750.7	5.7			
FM	(30°-60°)	6596.4	50.2			
FH	(60°-80°)	4379.8	33.3			G2/5000
FVH	(80°-90°)	46.2	0.4			G1/100
BL	(0°-30°)	412.4	3.1	B1/500		
BM	(30°-60°)	699.4	5.3	B1/1000		
BH	(60°-80°)	246.2	1.9	B1/500		G1/500
BVH	(80°-90°)	1.9	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3
2.5°	1433.7	1438.6	1443.6	1445.6	1452.5	1459.4	1464.4	1463.4	1471.3	1475.2	1475.2
5°	1376.4	1376.4	1389.2	1401.1	1420.9	1440.6	1459.4	1463.4	1478.2	1492.0	1497.0
7.5°	1327.9	1330.9	1340.8	1362.5	1389.2	1423.8	1461.4	1470.3	1496.0	1526.6	1539.5
10°	1305.2	1307.1	1320.0	1342.7	1376.4	1423.8	1476.2	1493.0	1532.6	1581.0	1598.8
12.5°	1300.2	1303.2	1316.0	1341.8	1380.3	1437.7	1508.9	1526.6	1584.0	1646.3	1673.0
15°	1309.1	1311.1	1324.0	1351.6	1394.2	1462.4	1552.4	1577.1	1645.3	1717.5	1752.1
17.5°	1340.8	1338.8	1347.7	1370.4	1417.9	1493.0	1604.8	1634.4	1714.5	1813.4	1836.1
20°	1475.2	1462.4	1454.5	1434.7	1453.5	1536.5	1668.0	1711.5	1810.4	1911.3	1927.1
22.5°	1764.9	1736.3	1679.9	1602.8	1543.5	1595.9	1744.2	1794.6	1922.2	2021.0	2021.0
25°	2133.7	2097.2	2040.8	1872.7	1727.4	1693.8	1830.2	1893.5	2043.8	2143.6	2111.0
27.5°	2595.5	2566.8	2457.1	2261.3	2038.8	1864.8	1930.1	1988.4	2151.5	2272.2	2204.0
30°	2971.2	2957.4	2867.4	2692.4	2447.2	2193.1	2116.0	2154.5	2294.9	2434.3	2364.1
32.5°	3288.6	3288.6	3196.7	3033.5	2804.1	2578.7	2431.4	2459.1	2593.5	2754.7	2624.2
35°	3637.7	3625.8	3551.6	3396.4	3139.3	2940.6	2880.3	2917.8	3039.5	3159.1	2837.7
37.5°	4004.5	4000.5	3923.4	3773.1	3563.5	3313.3	3172.0	3181.8	3244.1	3317.3	3087.9
40°	4403.0	4408.9	4308.0	4215.1	4017.3	3761.3	3490.3	3428.0	3486.4	3693.0	3549.7
42.5°	4873.6	4859.8	4816.3	4689.7	4530.5	4377.3	4051.9	4029.2	4080.6	4302.1	4146.9
45°	5420.4	5440.2	5365.0	5294.8	5188.0	5060.5	4788.6	4749.0	4805.4	5149.5	4929.0
47.5°	5968.2	5949.4	5997.8	5985.0	6042.3	5947.4	5707.1	5626.1	5761.5	6087.8	5763.5
50°	6385.4	6406.2	6507.0	6654.4	6900.6	6954.0	6723.6	6695.9	6756.2	6965.8	6510.0
52.5°	6656.4	6725.6	6883.8	7262.5	7706.4	8051.5	7876.5	7861.7	7836.9	7893.3	7223.9
55°	6833.3	6903.5	7110.2	7667.9	8432.2	8992.8	9001.7	8938.4	8775.3	8734.7	7891.3
57.5°	6724.6	6738.4	7033.1	7778.6	8834.6	9664.2	9954.9	9891.6	9590.0	9436.8	8480.6
60°	6044.3	6073.0	6483.3	7359.4	8659.6	9883.7	10586.7	10558.0	10227.8	10054.7	8939.4
62.5°	4839.0	4922.1	5344.3	6321.2	7845.8	9513.9	10842.8	10923.9	10666.8	10428.5	9083.8
63°	4617.5	4590.8	5036.8	6018.6	7630.3	9331.0	10846.7	10949.6	10686.5	10464.1	9044.2
65°	3418.2	3498.2	3787.9	4746.1	6349.8	8479.6	10602.5	10784.4	10613.4	10306.9	8606.2
67.5°	1919.2	1915.2	2235.6	3105.7	4444.5	6651.4	9587.0	9971.7	9936.1	9248.9	7133.9
70°	939.3	954.2	1085.7	1609.7	2577.7	4588.8	7966.5	8381.7	8394.6	7264.4	4932.9
72.5°	425.2	432.1	526.0	784.1	1324.9	2443.2	5489.6	5886.1	5812.9	4629.4	2724.0
75°	224.4	239.3	289.7	394.5	638.7	1007.5	2986.1	3369.7	3216.4	2115.0	1002.6
77.5°	166.1	171.1	196.8	251.1	342.1	392.5	1288.4	1532.6	1435.7	765.3	332.2
80°	121.6	125.6	146.3	178.0	215.6	199.7	485.5	556.7	499.3	260.0	101.8
82.5°	74.2	75.1	106.8	132.5	135.5	111.7	160.2	172.0	180.0	146.3	55.4
85°	26.7	33.6	72.2	95.9	80.1	56.4	67.2	74.2	81.1	92.9	32.6
87.5°	3.0	4.0	34.6	46.5	22.7	20.8	24.7	27.7	29.7	34.6	15.8
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°	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3
2.5°	1479.2	1483.1	1480.2	1475.2	1474.2	1471.3	1465.3	1465.3	1465.3	1467.3	1465.3
5°	1500.9	1503.9	1497.0	1487.1	1476.2	1462.4	1447.5	1438.6	1437.7	1435.7	1430.7
7.5°	1542.5	1546.4	1530.6	1506.9	1477.2	1443.6	1412.0	1382.3	1368.4	1357.6	1357.6
10°	1602.8	1606.7	1575.1	1532.6	1473.3	1405.0	1329.9	1261.7	1208.3	1183.5	1177.6
12.5°	1675.0	1676.9	1624.5	1550.4	1452.5	1321.0	1160.8	1011.5	907.7	860.2	855.3
15°	1754.1	1740.2	1671.0	1557.3	1393.2	1148.0	871.1	688.2	580.4	548.8	560.6
17.5°	1834.2	1808.4	1706.6	1546.4	1259.7	871.1	585.3	469.7	436.0	427.1	427.1
20°	1909.3	1873.7	1732.3	1499.0	1028.3	600.2	434.1	406.4	400.4	394.5	395.5
22.5°	1984.4	1930.1	1755.1	1393.2	766.3	429.1	388.6	379.7	371.8	363.9	362.9
25°	2057.6	1982.5	1764.0	1197.4	522.1	368.8	355.0	343.1	327.3	318.4	316.4
27.5°	2133.7	2045.8	1758.0	950.2	380.7	330.2	316.4	299.6	280.8	265.0	265.0
30°	2280.1	2166.4	1737.3	683.2	320.4	290.7	272.9	246.2	225.4	209.6	208.6
32.5°	2479.8	2323.6	1666.1	480.5	284.8	256.1	229.4	199.7	178.0	166.1	166.1
35°	2657.8	2481.8	1532.6	354.0	256.1	222.5	189.8	161.2	144.4	136.4	133.5
37.5°	2928.7	2713.2	1348.7	287.7	228.4	192.8	159.2	132.5	118.7	112.7	112.7
40°	3335.1	2996.0	1123.2	252.1	201.7	164.1	132.5	111.7	100.9	93.9	93.9
42.5°	3839.4	3342.0	894.8	226.4	177.0	141.4	110.7	94.9	85.0	80.1	79.1
45°	4474.2	3706.9	689.2	202.7	157.2	120.6	93.9	80.1	70.2	67.2	68.2
47.5°	5136.6	4028.2	533.9	181.9	136.4	101.8	80.1	69.2	62.3	58.3	58.3
50°	5702.2	4249.7	405.4	158.2	120.6	86.0	70.2	62.3	56.4	54.4	53.4
52.5°	6174.8	4314.0	310.5	137.4	105.8	74.2	62.3	56.4	51.4	48.4	48.4
55°	6577.2	4257.6	243.2	115.7	89.0	64.3	55.4	50.4	44.5	41.5	40.5
57.5°	6812.6	4076.7	185.9	95.9	72.2	53.4	48.4	42.5	35.6	30.7	30.7
60°	6931.2	3813.7	142.4	79.1	55.4	42.5	39.6	31.6	24.7	20.8	19.8
62.5°	6788.8	3464.6	107.8	62.3	41.5	31.6	26.7	22.7	15.8	11.9	11.9
63°	6700.8	3363.8	103.8	59.3	38.6	29.7	24.7	20.8	13.8	10.9	9.9
65°	6108.6	2923.8	85.0	47.5	30.7	20.8	16.8	14.8	9.9	4.9	4.0
67.5°	4850.9	2236.6	67.2	35.6	21.8	14.8	9.9	8.9	3.0	0.0	0.0
70°	3279.7	1444.6	52.4	25.7	14.8	8.9	4.9	4.0	1.0	0.0	0.0
72.5°	1710.6	740.6	40.5	18.8	8.9	5.9	3.0	1.0	0.0	0.0	0.0
75°	605.1	252.1	29.7	11.9	5.9	3.0	1.0	0.0	0.0	0.0	0.0
77.5°	182.9	93.9	18.8	8.9	4.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	64.3	34.6	10.9	5.9	3.0	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	31.6	16.8	6.9	4.9	3.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	17.8	10.9	5.9	4.9	3.0	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.9	7.9	5.9	4.9	4.0	2.0	1.0	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)