

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: P451532

Luminaire Tested: **GALN-SA2B-830-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7522 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82
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

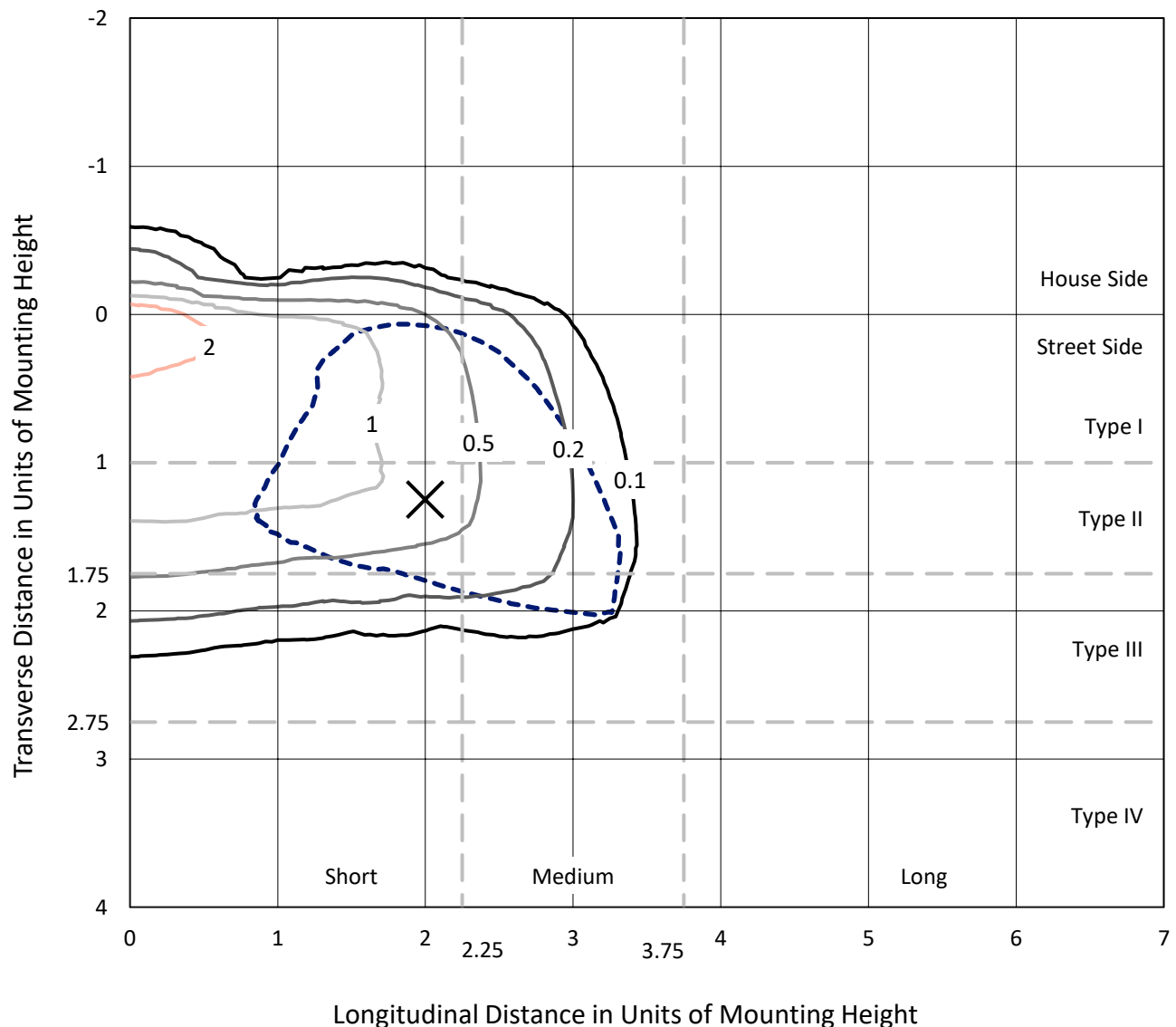


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

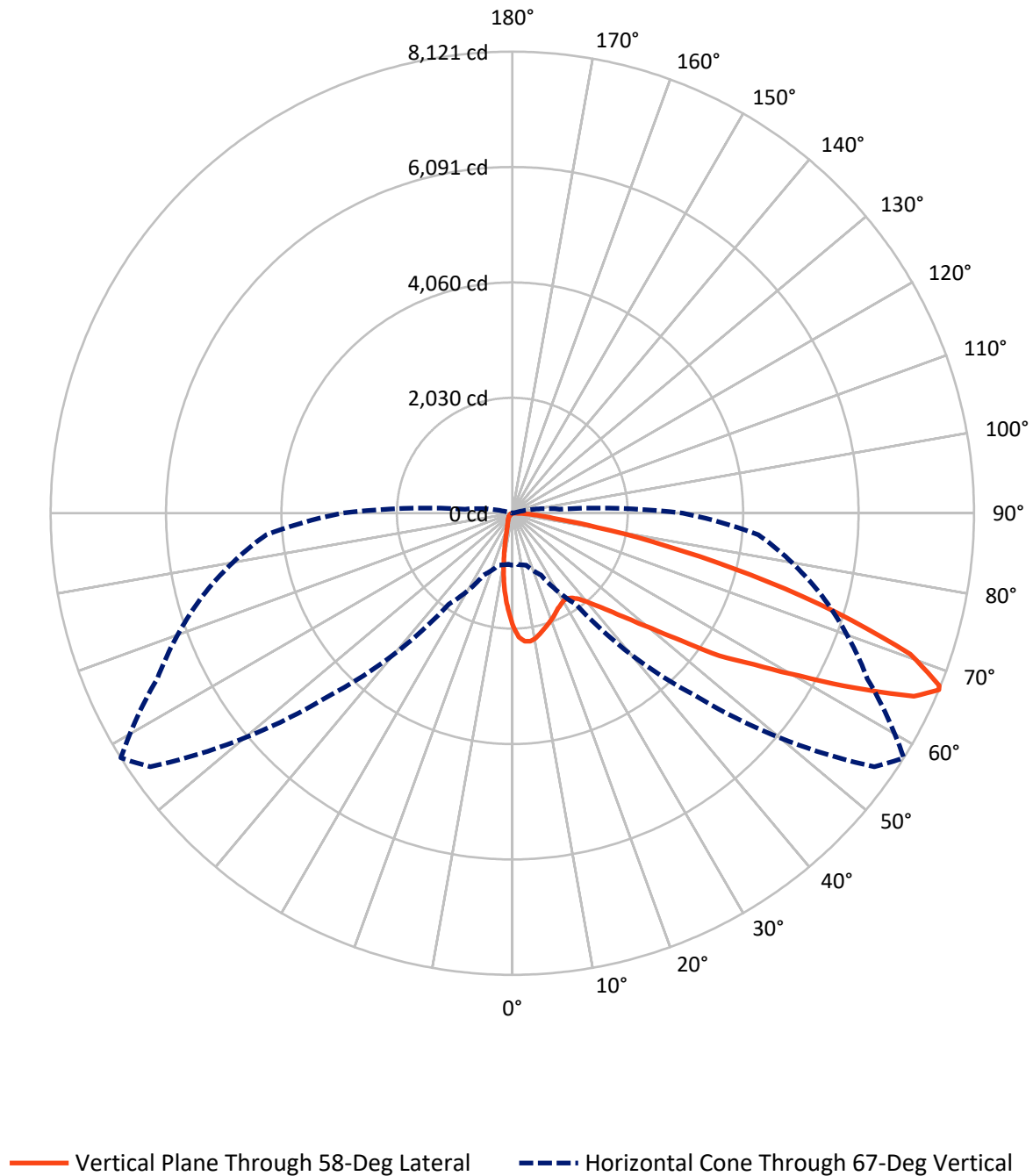


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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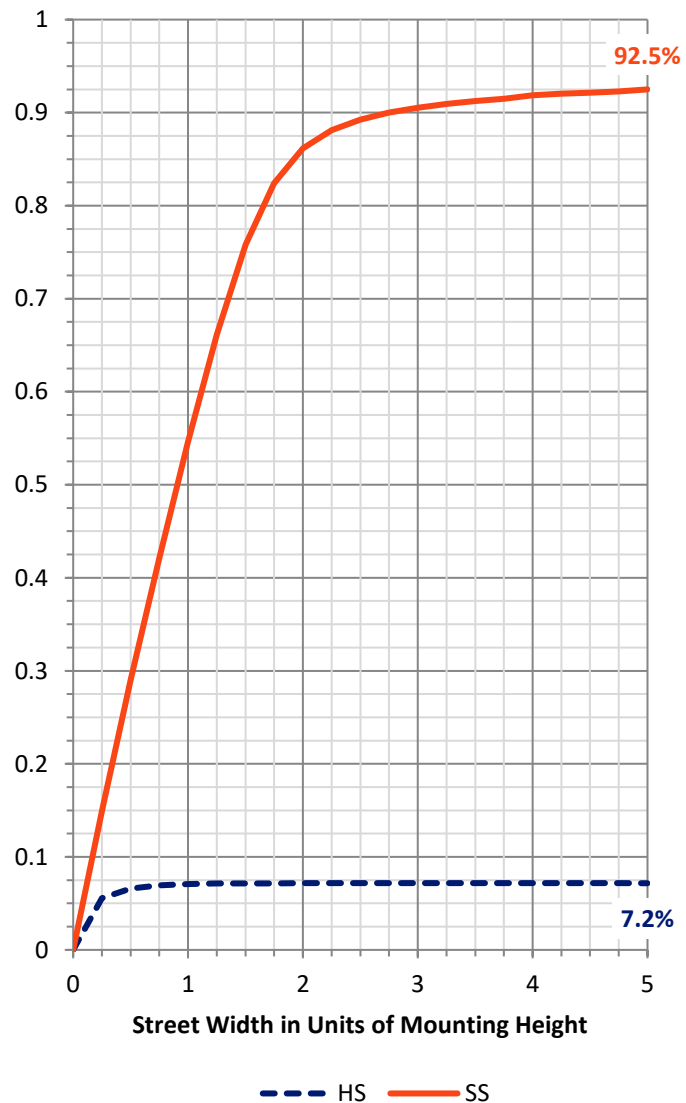
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	542.8	0.0	542.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	6979.2	0.0	6979.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	7522.0	0.0	7522.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.8	2.2
10°-20°	349.5	4.6
20°-30°	473.6	6.3
30°-40°	656.8	8.7
40°-50°	1047.5	13.9
50°-60°	1810.7	24.1
60°-70°	2068.4	27.5
70°-80°	862.3	11.5
80°-90°	91.4	1.2
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°	7522.0	100.0
0°-180°	7522.0	100.0

Coefficient of Utilization



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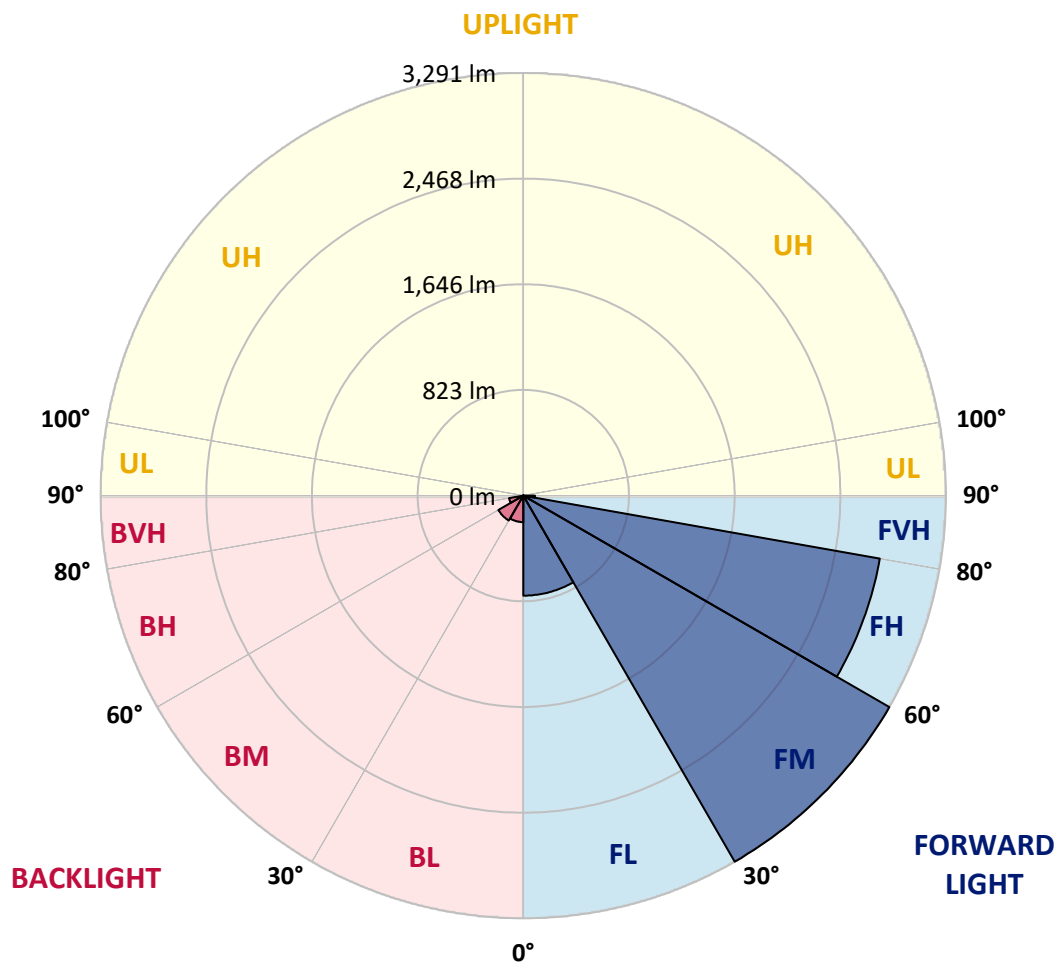
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	778.7	10.4			
FM	(30°-60°)	3291.2	43.8			
FH	(60°-80°)	2818.5	37.5			G2/5000
FVH	(80°-90°)	90.8	1.2			G1/100
BL	(0°-30°)	206.1	2.7	B1/500		
BM	(30°-60°)	223.8	3.0	B1/1000		
BH	(60°-80°)	112.2	1.5	B1/500		G1/500
BVH	(80°-90°)	0.7	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°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2314.2	2317.7	2304.7	2294.1	2267.0	2237.8	2199.1	2178.5	2143.3	2082.5	2015.1
5°	2368.5	2373.0	2371.0	2368.5	2357.9	2329.8	2280.5	2262.4	2210.7	2111.6	1990.0
7.5°	2247.9	2264.4	2266.4	2286.1	2304.7	2307.2	2288.6	2275.0	2227.2	2111.1	1945.3
10°	2088.0	2099.1	2115.2	2137.8	2182.5	2219.7	2237.8	2235.8	2208.1	2095.5	1893.0
12.5°	1926.7	1932.7	1957.3	1996.0	2050.8	2114.1	2162.4	2172.0	2172.5	2077.0	1849.2
15°	1787.9	1785.4	1804.5	1849.2	1926.2	2005.6	2092.0	2107.1	2131.2	2058.9	1808.5
17.5°	1669.3	1682.4	1685.4	1734.6	1805.5	1908.6	2018.6	2045.3	2093.5	2043.3	1774.9
20°	1595.9	1603.0	1609.5	1637.1	1701.0	1809.5	1949.8	1986.5	2058.4	2029.2	1737.2
22.5°	1574.3	1578.8	1573.3	1581.8	1627.1	1723.6	1874.9	1923.6	2024.7	2016.1	1706.5
25°	1590.9	1595.4	1582.3	1572.3	1587.9	1653.7	1802.5	1861.8	1997.5	2013.6	1683.4
27.5°	1631.1	1639.6	1621.5	1603.5	1594.4	1616.0	1745.7	1814.6	1978.9	2025.7	1672.8
30°	1693.9	1699.0	1685.4	1663.3	1642.7	1621.0	1716.0	1781.9	1973.9	2053.8	1671.8
32.5°	1762.3	1772.8	1765.3	1750.7	1724.1	1672.8	1724.6	1782.9	1986.0	2094.5	1684.4
35°	1846.7	1858.8	1865.8	1862.8	1828.6	1764.8	1778.9	1828.1	2018.1	2169.4	1718.6
37.5°	1929.7	1940.2	1979.9	1993.5	1963.4	1903.0	1884.4	1917.1	2089.0	2267.5	1780.4
40°	2024.7	2038.7	2094.5	2146.3	2131.7	2068.4	2034.2	2061.4	2197.6	2415.2	1897.5
42.5°	2115.7	2140.8	2225.7	2317.2	2330.8	2259.9	2237.3	2246.3	2358.4	2627.9	2060.9
45°	2244.8	2268.5	2378.0	2502.2	2566.0	2510.7	2487.6	2486.1	2579.1	2926.9	2325.8
47.5°	2431.3	2452.4	2581.6	2704.3	2817.9	2825.4	2781.7	2796.7	2856.6	3276.8	2650.5
50°	2660.0	2709.8	2794.7	2922.4	3074.2	3196.9	3210.4	3190.3	3241.6	3681.9	3040.5
52.5°	2992.3	3011.4	3089.3	3194.3	3372.3	3580.4	3741.7	3714.1	3698.0	4067.9	3434.6
55°	3240.1	3265.7	3386.9	3531.1	3792.0	4066.4	4416.3	4425.8	4222.8	4438.9	3820.1
57.5°	3165.2	3204.4	3387.9	3677.9	4251.4	4753.1	5013.4	5020.0	4708.3	4799.3	4255.4
60°	2780.7	2799.3	3062.1	3449.2	4290.6	5497.0	5860.4	5807.6	5202.4	5202.4	4640.0
62.5°	1971.9	2001.1	2214.2	2783.7	3874.9	5755.3	6874.7	6765.7	5883.0	5588.0	4869.2
65°	1260.1	1232.0	1373.2	1757.3	2886.7	5373.8	7757.9	7764.4	6523.4	5742.3	4744.0
67°	912.8	901.8	942.5	1201.3	1957.3	4517.3	7776.5	8120.8	6891.3	5644.8	4343.9
67.5°	834.9	843.4	873.1	1083.7	1778.4	4110.7	7692.1	8099.7	6974.3	5586.0	4199.1
70°	632.8	618.3	650.4	766.5	1066.1	2593.2	6616.9	7428.7	6871.2	5002.4	3355.2
72.5°	465.5	463.9	508.7	626.8	820.8	1381.3	4967.2	5956.4	5613.6	3809.1	2112.6
75°	314.2	328.2	399.6	523.8	743.9	895.7	3386.4	4321.3	3897.0	2162.9	863.6
77.5°	178.9	179.9	257.4	420.7	668.0	720.8	2006.6	2753.0	2062.9	719.3	256.4
80°	77.4	84.9	127.7	305.6	553.9	638.4	1150.6	1513.0	834.4	152.3	82.9
82.5°	28.7	33.7	56.3	188.0	404.1	525.8	695.2	722.3	283.0	53.8	51.8
85°	0.0	1.0	20.6	88.0	210.6	234.7	464.4	428.3	125.2	25.6	33.7
87.5°	0.0	0.0	0.0	9.0	27.6	87.5	144.3	160.8	30.2	9.0	8.0
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°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1978.9	1946.3	1864.3	1782.4	1721.6	1670.8	1594.4	1552.7	1530.6	1497.9	1499.9
5°	1929.2	1862.8	1718.6	1569.3	1448.6	1331.0	1190.3	1133.5	1085.7	1058.6	1040.5
7.5°	1855.3	1757.3	1543.6	1344.6	1159.1	953.5	799.2	696.2	626.8	601.2	576.5
10°	1774.4	1644.2	1366.2	1090.2	832.9	620.8	490.1	395.6	361.9	330.7	333.8
12.5°	1699.5	1541.1	1203.3	860.5	583.6	394.6	307.6	268.9	257.9	254.3	254.3
15°	1638.1	1442.6	1028.4	646.9	400.1	283.5	246.3	235.7	231.7	230.7	230.7
17.5°	1572.8	1349.1	870.6	478.0	291.0	237.3	224.7	217.6	216.1	215.1	215.1
20°	1514.5	1255.1	720.8	355.9	235.2	213.6	205.6	201.1	199.6	198.5	199.0
22.5°	1459.2	1171.7	580.1	268.9	207.1	194.5	186.5	182.0	178.9	176.4	176.9
25°	1409.9	1091.3	466.5	220.2	186.5	175.4	167.4	160.8	154.3	151.3	150.8
27.5°	1375.3	1020.9	363.4	188.5	167.9	155.8	145.8	137.7	129.2	124.7	123.7
30°	1346.6	949.5	287.5	166.4	149.3	137.7	125.2	113.6	104.6	100.0	98.0
32.5°	1328.0	881.6	226.7	148.3	133.7	119.6	105.6	94.0	83.9	79.4	78.4
35°	1325.0	824.8	185.5	133.2	119.6	104.6	90.0	77.4	68.9	64.3	63.3
37.5°	1346.6	781.1	155.3	121.1	108.1	91.5	75.4	63.8	56.3	52.8	52.3
40°	1404.4	753.5	134.7	111.1	97.5	79.4	64.3	54.3	46.7	43.2	43.2
42.5°	1514.5	754.5	121.1	101.5	87.0	67.9	54.8	45.2	38.7	35.7	34.7
45°	1686.4	788.7	109.6	92.0	76.9	58.8	46.7	37.2	30.7	28.1	28.1
47.5°	1916.6	856.5	99.5	82.4	67.9	50.3	39.7	30.2	24.6	22.1	22.1
50°	2217.7	965.6	91.0	74.4	60.3	43.2	32.2	24.6	19.1	17.1	16.6
52.5°	2532.4	1100.3	80.9	67.4	51.8	36.7	26.1	19.1	14.6	13.1	12.6
55°	2879.7	1232.0	71.4	60.3	42.2	30.7	20.6	15.1	10.6	9.0	9.0
57.5°	3230.0	1361.2	59.8	50.3	33.2	22.6	16.1	11.1	7.0	5.5	5.5
60°	3526.6	1402.9	50.8	40.7	25.1	16.1	11.6	7.0	4.0	2.5	2.5
62.5°	3567.3	1262.2	42.7	31.2	18.1	11.1	6.0	4.0	1.5	1.0	1.0
65°	3346.1	1025.4	35.7	23.6	12.1	5.5	2.5	1.5	0.5	0.0	0.0
67°	2998.3	831.4	29.2	17.6	8.5	3.5	1.5	0.5	0.0	0.0	0.0
67.5°	2909.3	792.7	28.1	16.6	7.5	3.0	1.0	0.5	0.0	0.0	0.0
70°	2283.0	593.6	20.1	10.1	4.5	2.0	0.0	0.0	0.0	0.0	0.0
72.5°	1419.0	335.8	14.6	6.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	536.3	117.6	10.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	166.9	44.7	6.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	56.3	17.1	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	34.7	7.0	2.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.6	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	1.0	0.5	0.0	0.0	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)