

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: P450832

Luminaire Tested: **GALN-SA1C-830-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5708 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 57
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

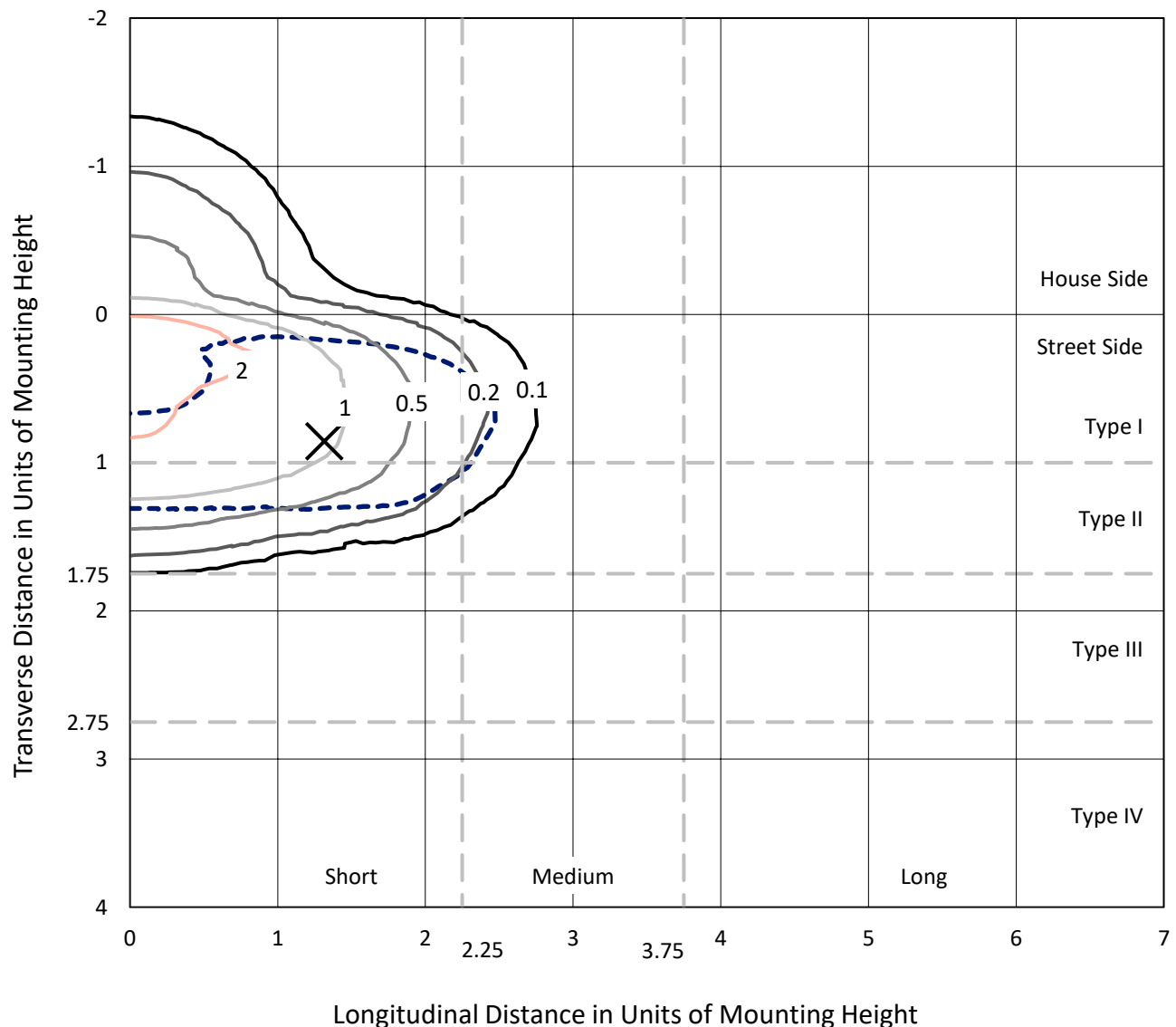


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

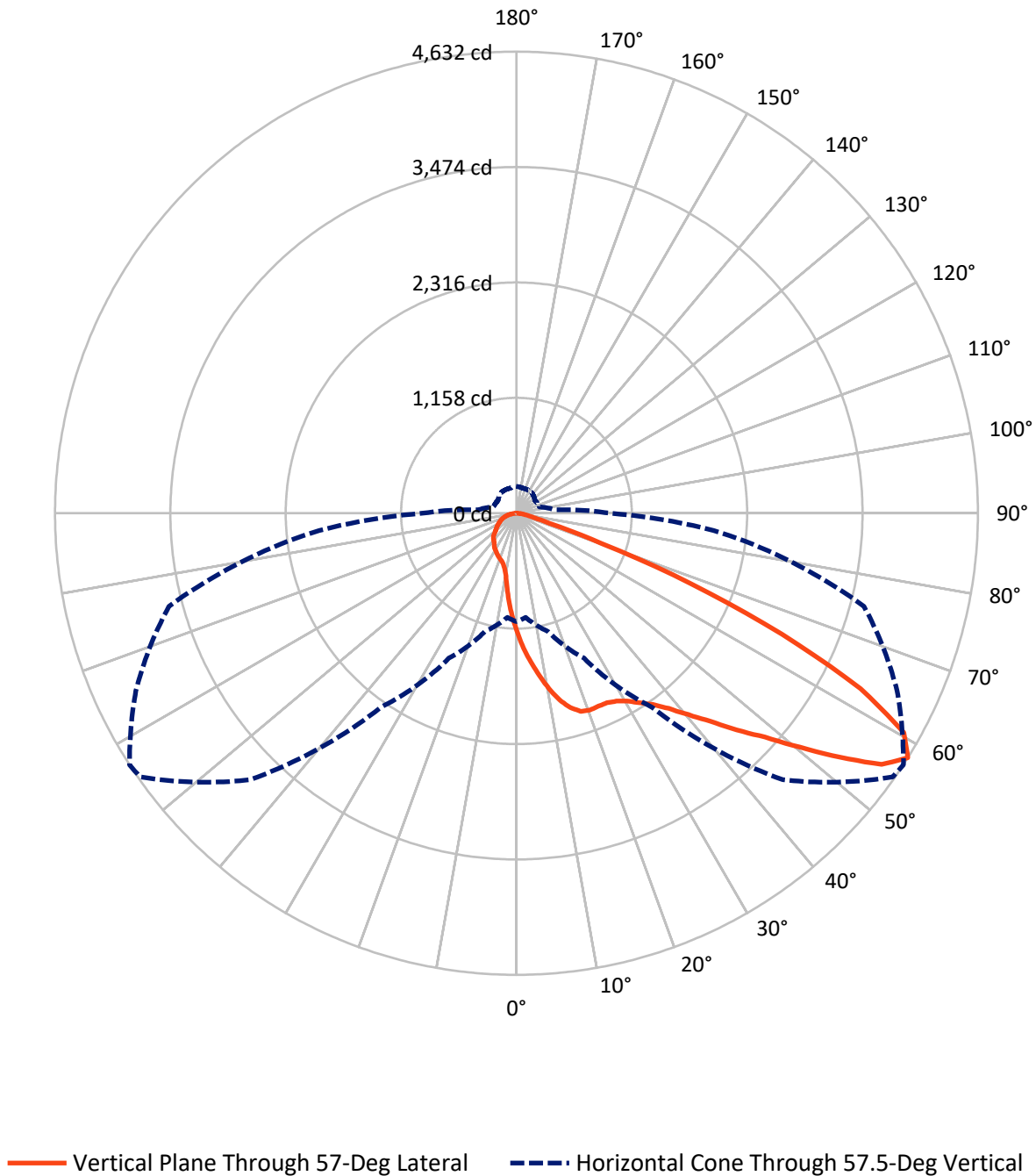


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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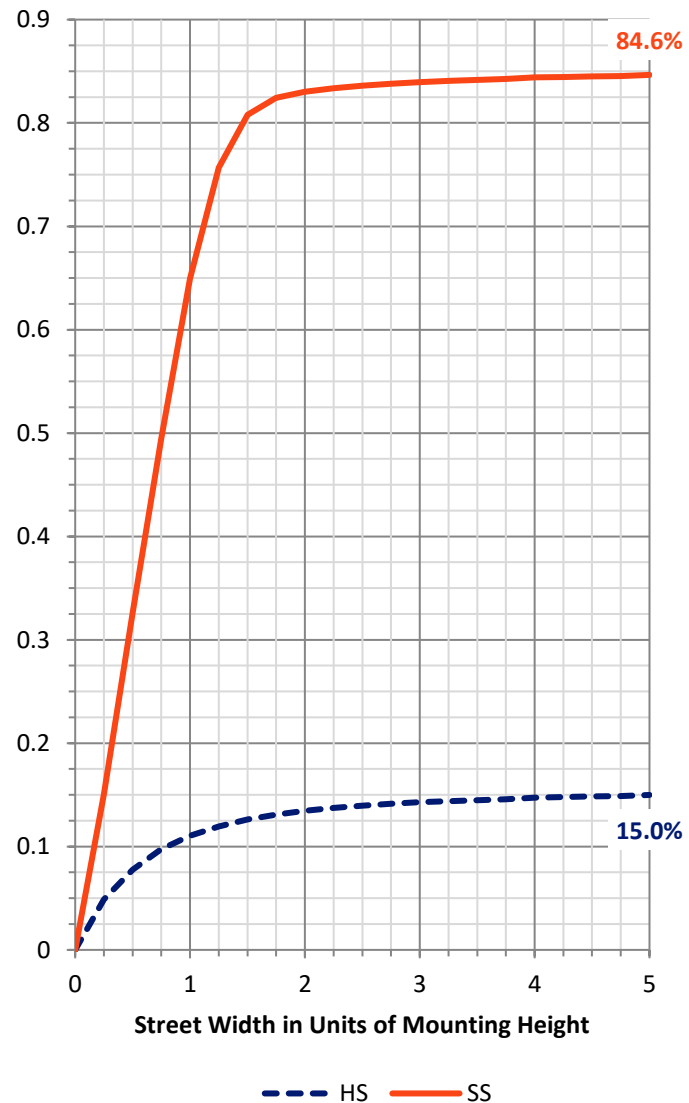
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	868.0	0.0	868.0
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	4840.0	0.0	4840.0
	% Fixture	84.8	0.0	84.8
Total	Lumens	5708.0	0.0	5708.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	2.0
10°-20°	339.7	6.0
20°-30°	564.0	9.9
30°-40°	849.6	14.9
40°-50°	1275.5	22.3
50°-60°	1429.7	25.0
60°-70°	836.7	14.7
70°-80°	247.5	4.3
80°-90°	50.0	0.9
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°	5708.0	100.0
0°-180°	5708.0	100.0

Coefficient of Utilization



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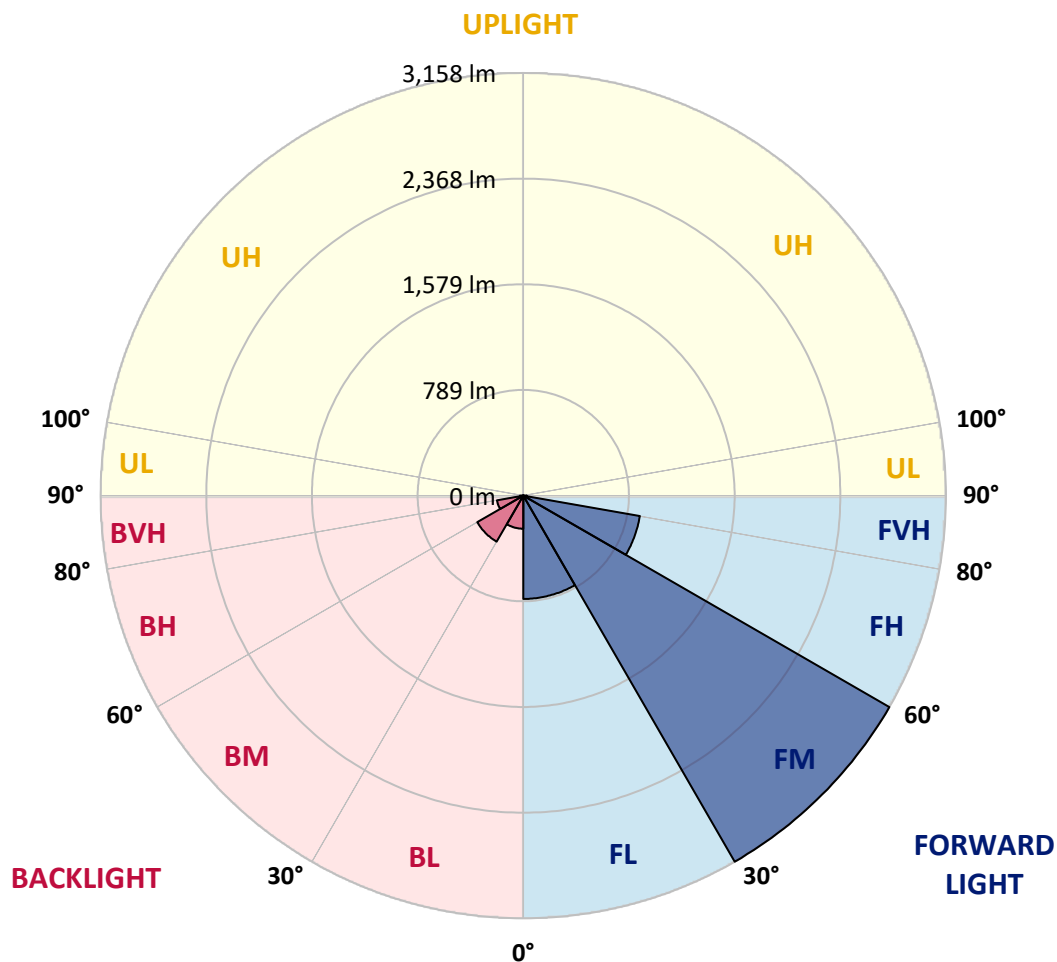
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	771.6	13.5			
FM	(30°-60°)	3157.9	55.3			
FH	(60°-80°)	884.5	15.5			G1/1800
FVH	(80°-90°)	26.0	0.5			G1/100
BL	(0°-30°)	247.3	4.3	B1/500		
BM	(30°-60°)	396.9	7.0	B1/1000		
BH	(60°-80°)	199.7	3.5	B1/500		G1/500
BVH	(80°-90°)	24.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2
2.5°	1490.1	1473.8	1461.0	1449.8	1435.1	1395.4	1355.7	1355.1	1323.5	1274.8	1224.8
5°	1732.9	1711.0	1713.8	1678.8	1643.8	1586.3	1502.3	1497.9	1430.7	1339.5	1246.7
7.5°	1891.0	1891.3	1882.5	1862.5	1824.7	1759.4	1664.1	1642.6	1549.1	1410.7	1271.7
10°	1882.8	1891.3	1905.9	1923.1	1934.7	1902.5	1815.7	1789.4	1667.9	1497.0	1299.5
12.5°	1774.7	1787.8	1808.8	1851.9	1921.6	1974.7	1945.0	1923.8	1805.3	1582.9	1330.1
15°	1707.2	1715.0	1726.6	1755.7	1830.6	1957.8	2034.7	2023.4	1935.0	1680.0	1364.5
17.5°	1686.6	1694.4	1698.2	1716.0	1769.4	1899.7	2070.0	2090.0	2050.0	1769.4	1399.2
20°	1707.2	1711.0	1711.0	1721.6	1763.5	1865.6	2068.4	2108.7	2144.3	1876.6	1431.6
22.5°	1761.3	1762.8	1760.7	1764.4	1795.7	1875.0	2053.7	2103.7	2220.6	1967.5	1457.0
25°	1849.1	1851.6	1837.2	1828.5	1851.3	1916.3	2061.9	2107.8	2280.3	2054.4	1473.8
27.5°	1948.8	1951.9	1934.4	1914.1	1924.7	1967.2	2093.7	2135.0	2324.9	2140.0	1484.5
30°	2070.9	2072.2	2042.8	2018.4	2011.6	2043.1	2148.1	2186.5	2380.6	2240.9	1500.4
32.5°	2195.9	2205.3	2167.5	2133.1	2121.5	2131.2	2228.4	2265.6	2446.8	2349.3	1526.0
35°	2365.9	2367.4	2322.1	2280.3	2242.1	2254.6	2331.2	2358.1	2538.3	2474.6	1562.3
37.5°	2578.0	2592.4	2529.9	2451.8	2404.9	2386.8	2455.5	2484.9	2666.8	2628.3	1616.9
40°	2813.6	2818.9	2765.5	2716.8	2631.1	2578.7	2626.1	2658.0	2825.2	2811.7	1680.4
42.5°	2961.7	2973.3	2977.3	2972.3	2908.0	2819.9	2838.0	2853.0	3012.6	2983.9	1745.3
45°	3011.7	3028.9	3087.0	3210.1	3217.0	3130.1	3087.9	3102.3	3217.0	3157.6	1807.5
47.5°	2928.9	2958.3	3065.5	3317.9	3506.9	3513.5	3386.3	3354.8	3403.2	3301.7	1852.5
50°	2714.9	2721.1	2885.2	3250.7	3642.9	3880.0	3748.5	3689.7	3580.1	3408.2	1883.5
52.5°	2383.7	2390.9	2528.4	2938.6	3559.1	4136.2	4172.2	4067.2	3759.7	3491.0	1903.8
55°	1769.4	1811.0	1962.2	2358.7	3162.3	4112.2	4509.0	4449.3	3976.9	3556.6	1935.6
57.5°	1088.0	1049.8	1229.2	1604.7	2378.4	3781.6	4613.0	4632.4	4215.9	3611.6	1989.1
60°	500.5	508.0	582.1	827.7	1449.8	2958.3	4344.9	4467.4	4348.1	3609.7	2002.5
62.5°	344.9	338.1	319.3	363.4	661.1	1871.0	3670.0	3877.5	4083.1	3497.6	1949.1
65°	308.4	301.5	265.3	253.1	303.7	815.5	2668.0	2929.8	3437.9	3214.5	1816.0
67.5°	288.1	278.7	241.2	217.5	216.8	324.6	1573.2	1888.5	2549.9	2717.7	1573.5
70°	266.8	259.3	222.2	195.9	184.7	204.0	691.5	905.2	1655.7	1958.4	1225.7
72.5°	245.6	236.8	203.4	175.3	160.6	152.8	265.0	344.6	935.5	1174.2	751.4
75°	214.7	210.3	181.8	158.7	142.8	123.4	168.1	191.8	447.4	539.3	377.1
77.5°	187.8	183.1	161.5	138.7	127.2	100.3	119.4	130.3	188.7	218.7	170.3
80°	137.5	142.2	136.2	122.5	113.4	78.7	80.3	89.4	112.2	124.0	104.0
82.5°	87.2	95.9	105.0	94.4	85.9	62.2	55.6	59.1	76.6	81.2	46.2
85°	36.6	37.2	60.9	57.5	49.1	36.9	33.4	35.3	40.9	42.8	21.6
87.5°	14.1	13.7	21.6	20.0	15.3	10.6	10.6	11.9	16.2	15.0	6.9
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°	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2
2.5°	1203.2	1181.1	1137.0	1082.3	1042.3	997.3	957.7	929.2	918.6	913.6	904.2
5°	1202.3	1158.6	1067.3	971.7	894.9	816.1	749.6	706.5	702.7	674.0	671.1
7.5°	1202.6	1135.8	990.5	849.9	732.7	652.1	597.1	582.7	565.5	561.2	563.3
10°	1203.6	1106.7	908.0	729.3	615.8	563.0	542.4	536.8	537.4	539.3	539.6
12.5°	1204.8	1078.6	822.4	637.7	550.2	528.4	526.2	531.2	536.5	540.5	541.5
15°	1206.4	1046.4	738.9	564.0	517.4	515.5	522.7	531.2	538.7	544.6	545.5
17.5°	1204.5	1008.9	669.0	518.7	499.3	508.4	520.2	530.9	537.7	543.4	544.0
20°	1200.1	967.0	601.5	486.8	488.0	502.7	515.5	525.5	533.0	535.9	538.0
22.5°	1183.3	917.0	542.7	462.1	474.6	494.9	510.2	516.2	507.7	501.8	503.4
25°	1154.5	852.1	488.0	442.1	462.4	484.0	499.6	485.2	478.4	475.9	477.1
27.5°	1118.6	780.8	446.8	421.2	446.8	471.8	467.4	464.9	461.8	457.7	458.7
30°	1079.8	711.1	411.8	404.9	429.9	444.3	446.2	450.2	446.8	440.6	443.1
32.5°	1043.9	645.5	385.3	391.2	418.1	415.9	429.9	434.6	418.7	397.7	398.7
35°	1013.3	584.6	365.3	377.8	397.7	398.7	412.7	396.5	379.3	369.3	369.9
37.5°	990.2	537.1	352.1	366.2	371.8	383.7	376.2	367.8	365.6	358.7	359.0
40°	976.4	495.5	343.7	357.1	356.2	364.3	340.3	348.7	351.8	349.6	349.9
42.5°	962.7	466.2	334.9	344.6	344.3	328.4	323.1	330.3	338.4	339.3	338.7
45°	951.7	443.4	325.9	325.6	331.8	306.8	305.3	309.6	321.2	326.8	326.5
47.5°	939.5	424.3	312.1	303.4	305.3	293.4	290.9	292.8	306.8	315.9	318.4
50°	924.2	405.2	295.0	283.1	275.3	280.9	281.5	281.8	295.9	306.2	308.4
52.5°	912.0	390.9	275.3	266.5	257.1	269.6	274.3	275.0	283.4	291.8	293.4
55°	919.2	382.8	255.9	249.6	241.2	258.1	267.1	268.4	270.3	276.5	277.5
57.5°	940.8	384.6	240.3	232.2	225.9	244.3	259.6	260.6	259.3	266.8	268.1
60°	947.4	383.7	228.7	212.8	209.0	229.7	248.7	250.6	250.3	261.2	263.4
62.5°	919.9	371.8	217.2	196.5	194.0	214.7	233.4	240.9	242.5	258.1	260.9
65°	855.2	347.4	201.8	179.3	179.3	198.7	218.7	229.0	233.4	254.3	257.5
67.5°	769.9	318.7	186.2	164.7	164.0	183.4	203.1	213.7	220.6	249.0	250.9
70°	639.0	280.0	166.8	148.7	148.7	166.2	184.0	196.8	206.8	239.0	239.0
72.5°	437.7	232.8	143.4	130.6	130.9	147.2	165.3	179.7	191.5	219.0	219.7
75°	276.8	181.8	117.8	111.2	112.5	127.8	146.5	161.5	185.3	216.5	217.5
77.5°	147.2	127.8	93.7	92.2	93.7	107.8	128.7	149.4	185.9	187.8	184.7
80°	95.3	90.6	74.1	70.9	71.6	86.9	114.7	141.9	149.4	151.2	144.4
82.5°	51.9	57.5	52.5	49.4	49.4	67.8	97.8	112.8	107.2	89.0	85.0
85°	22.2	26.9	27.2	23.7	22.8	41.9	65.6	61.6	57.2	54.7	54.1
87.5°	6.2	8.7	8.7	6.6	5.0	11.6	13.1	3.7	0.0	0.3	0.6
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)