

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: P192900

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL3-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9517.6 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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: 25 FT

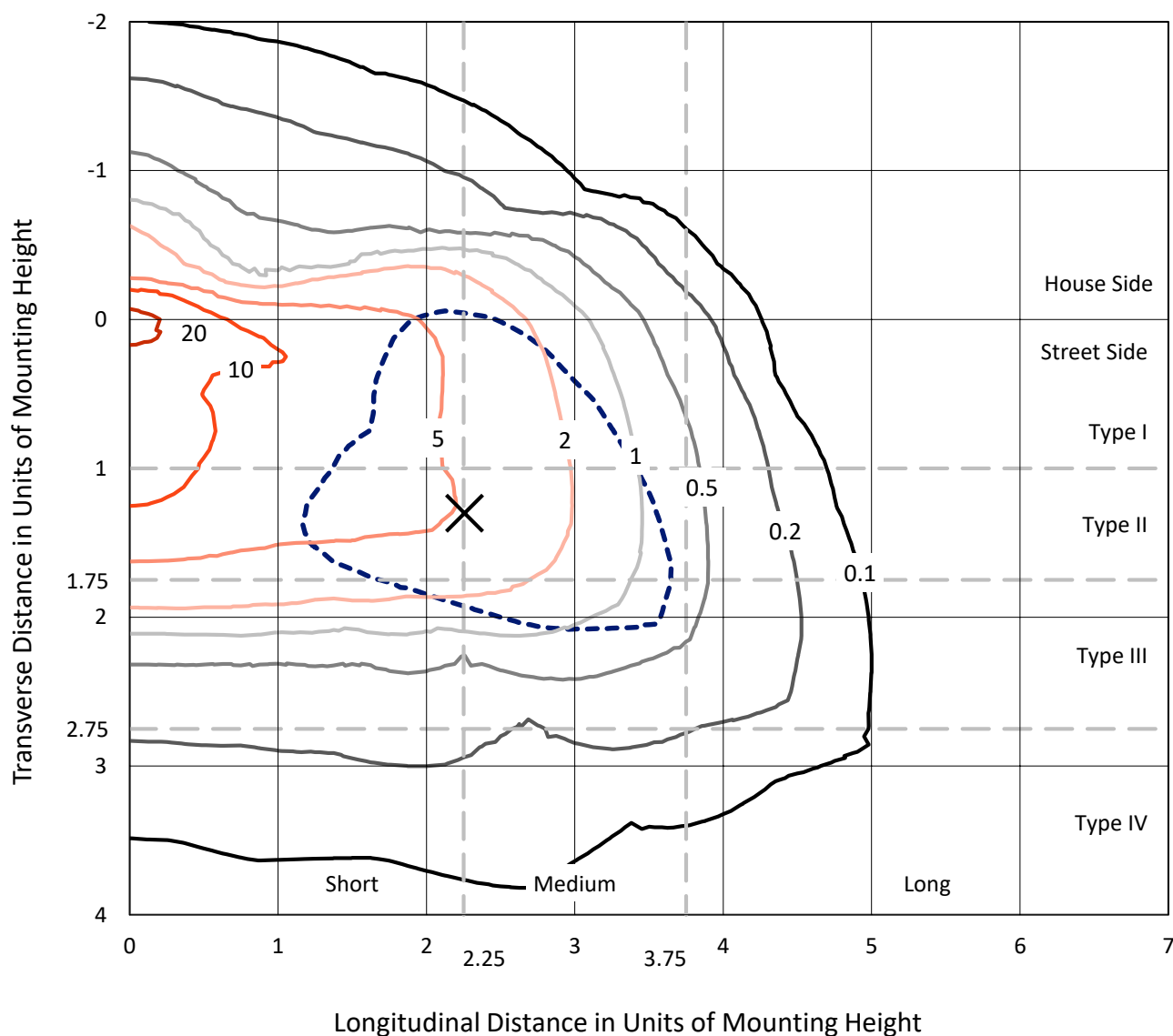


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

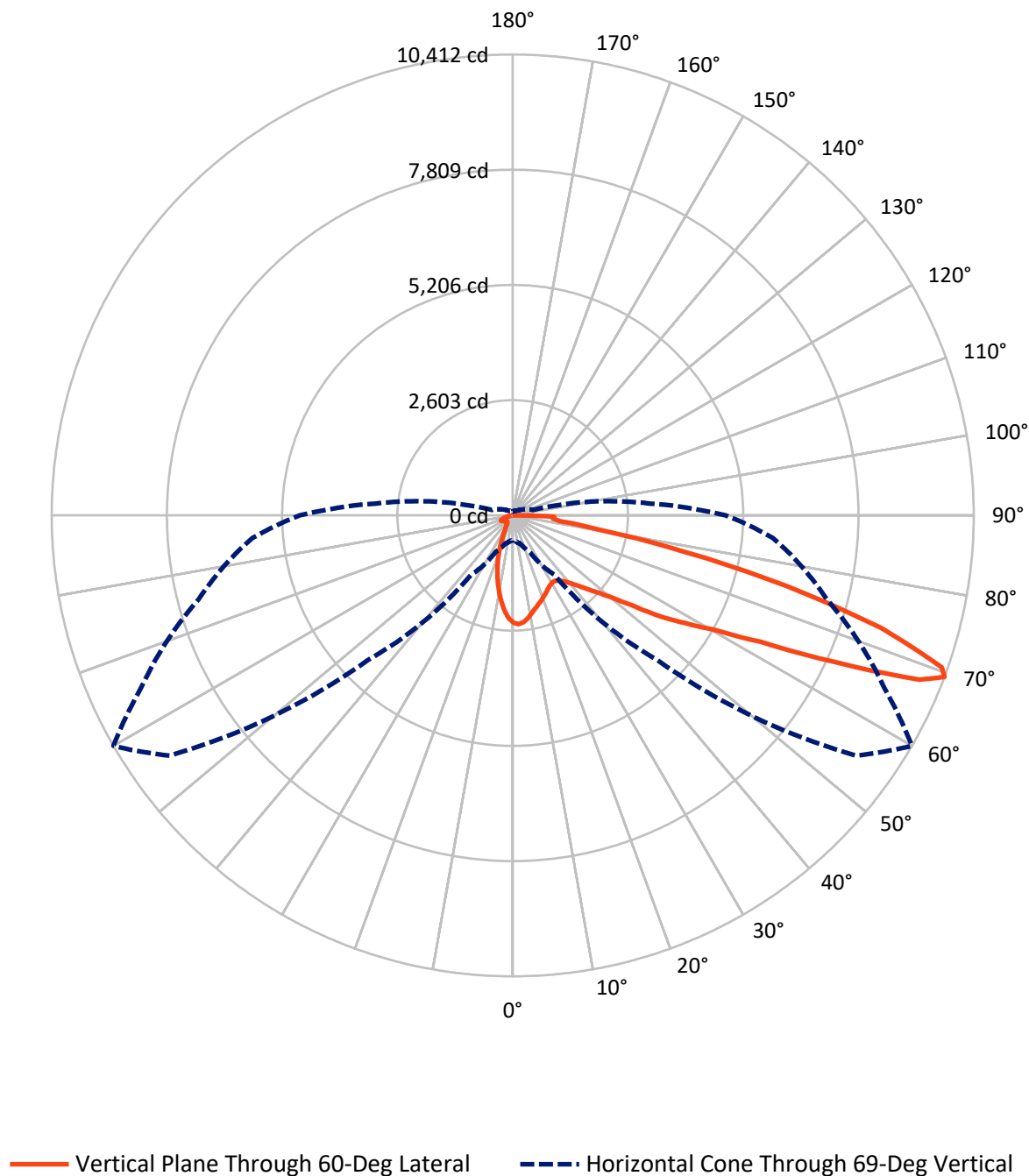


Based on 10 foot mounting height. Maximum calculated value = 24.3 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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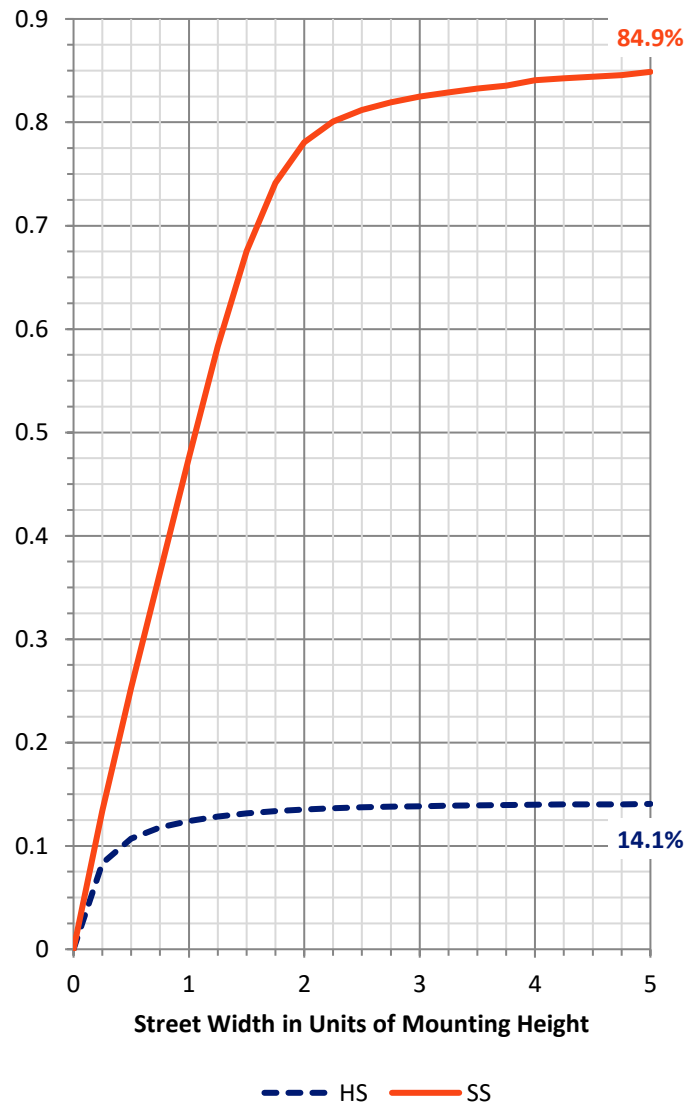
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1354.0	0.0	1354.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	8163.5	0.0	8163.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	9517.6	0.0	9517.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.1	2.2
10°-20°	436.9	4.6
20°-30°	556.7	5.8
30°-40°	765.3	8.0
40°-50°	1241.8	13.0
50°-60°	1991.5	20.9
60°-70°	2650.5	27.8
70°-80°	1431.1	15.0
80°-90°	238.8	2.5
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°	9517.6	100.0
0°-180°	9517.6	100.0

Coefficient of Utilization



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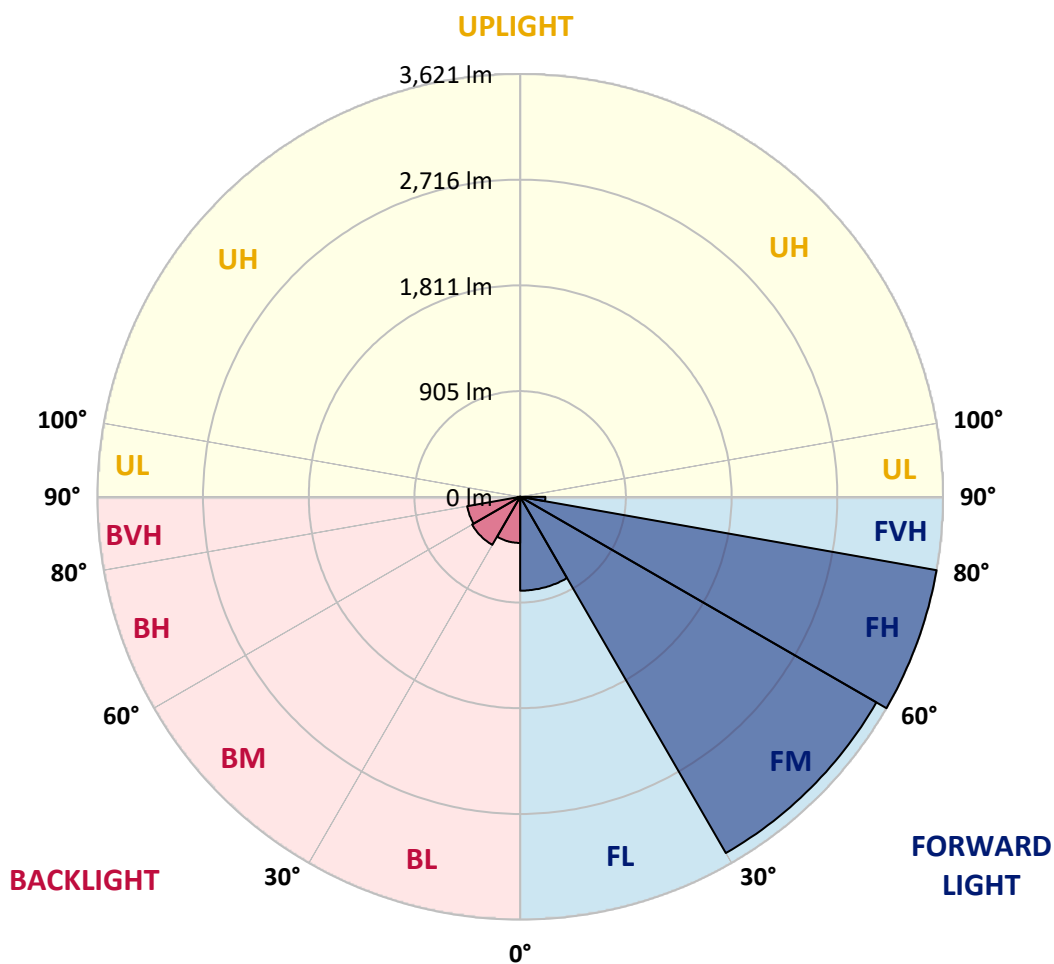
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	803.6	8.4			
FM	(30°-60°)	3522.8	37.0			
FH	(60°-80°)	3621.2	38.0			G2/5000
FVH	(80°-90°)	215.8	2.3			G2/225
BL	(0°-30°)	395.0	4.2	B1/500		
BM	(30°-60°)	475.7	5.0	B1/1000		
BH	(60°-80°)	460.3	4.8	B1/500		G1/500
BVH	(80°-90°)	23.0	0.2			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2425.2	2425.2	2425.2	2425.2	2425.2	2425.2	2425.2	2425.2	2425.2	2425.2	2425.2
2.5°	2474.8	2480.4	2478.1	2476.7	2480.8	2474.4	2461.1	2456.9	2450.4	2435.4	2409.6
5°	2382.0	2398.6	2397.5	2410.0	2430.7	2436.3	2430.3	2431.2	2419.2	2400.4	2357.6
7.5°	2221.6	2228.5	2232.1	2259.3	2296.9	2327.3	2353.0	2361.3	2355.8	2339.7	2284.5
10°	2056.0	2061.5	2070.3	2102.0	2149.7	2191.6	2240.4	2268.4	2280.3	2277.6	2216.0
12.5°	1914.0	1919.4	1930.9	1966.8	2023.8	2075.4	2146.2	2181.2	2209.5	2226.6	2160.4
15°	1786.6	1798.6	1809.7	1851.0	1914.9	1982.5	2062.5	2106.6	2150.8	2188.9	2111.2
17.5°	1687.3	1699.3	1705.7	1743.4	1811.4	1894.2	1988.0	2040.0	2095.1	2157.7	2062.5
20°	1629.8	1635.4	1632.6	1653.7	1715.0	1802.7	1914.0	1974.2	2040.9	2128.3	2013.7
22.5°	1613.8	1614.2	1604.2	1601.8	1641.3	1715.4	1834.9	1908.0	1989.8	2108.9	1971.9
25°	1652.9	1651.5	1623.8	1601.3	1605.4	1648.7	1758.5	1843.6	1947.1	2104.8	1939.7
27.5°	1739.7	1743.9	1703.0	1660.6	1618.7	1617.5	1700.6	1790.3	1912.1	2123.7	1925.9
30°	1861.6	1868.5	1824.7	1771.0	1692.3	1627.5	1678.1	1758.5	1890.5	2162.7	1923.6
32.5°	1994.8	2002.2	1969.2	1912.6	1809.7	1690.0	1693.7	1761.4	1889.6	2217.4	1939.3
35°	2137.0	2145.2	2128.3	2080.4	1965.9	1805.5	1753.5	1805.9	1919.4	2301.1	1981.1
37.5°	2295.5	2308.4	2313.0	2267.5	2145.2	1957.6	1851.4	1890.5	1987.1	2417.4	2057.9
40°	2524.1	2542.0	2540.6	2475.4	2350.7	2163.2	2002.7	2012.8	2092.4	2572.8	2180.6
42.5°	2961.8	2965.4	2851.0	2708.9	2577.0	2379.2	2181.2	2172.8	2237.6	2769.6	2361.3
45°	3518.4	3503.4	3248.6	2974.1	2813.2	2627.4	2413.3	2372.8	2422.0	3009.5	2587.5
47.5°	3980.6	3945.7	3623.8	3245.0	3063.4	2897.4	2685.9	2615.1	2642.2	3281.7	2880.0
50°	4141.0	4114.8	3848.2	3470.3	3300.1	3226.5	3021.6	2921.3	2928.7	3606.3	3222.5
52.5°	4106.5	4102.9	3924.9	3618.7	3521.8	3572.3	3497.0	3361.3	3289.6	3966.7	3592.1
55°	4025.2	4033.0	3968.7	3791.7	3775.1	3906.1	4118.1	4017.8	3794.8	4330.5	3974.2
57.5°	3742.4	3762.7	3904.3	4009.0	4182.9	4377.8	4618.3	4589.8	4338.6	4723.6	4428.4
60°	3015.1	3062.0	3441.7	3966.7	4602.6	5212.3	5319.9	5253.6	4899.6	5211.3	5028.3
62.5°	2112.6	2161.3	2612.8	3434.3	4533.7	6154.8	6574.1	6288.5	5705.1	5929.9	5805.0
65°	1131.1	1154.5	1499.2	2383.0	3827.5	6349.3	8407.2	7972.6	6980.5	6815.9	6469.2
67.5°	623.9	636.8	768.7	1203.2	2451.4	5591.2	9574.9	9903.1	8574.4	7405.8	6348.3
69°	564.1	576.2	662.5	911.2	1640.4	4622.9	9460.9	10412.2	9273.3	7347.3	5901.4
70°	551.8	562.8	640.5	839.9	1327.8	3810.5	9078.8	10282.1	9439.8	7138.2	5511.6
72.5°	496.6	508.5	583.9	754.4	1134.6	1899.7	7191.6	8693.5	8570.3	6189.2	4180.6
75°	462.9	473.9	601.8	738.8	1086.4	1202.3	4741.0	6407.2	6300.1	4329.5	2254.2
77.5°	198.2	197.2	279.0	625.3	1102.5	1164.1	2547.5	4002.6	3651.9	1850.6	647.4
80°	132.4	130.1	132.4	183.9	1010.9	1170.5	1334.7	2031.6	1534.6	471.7	319.0
82.5°	114.0	112.2	116.4	112.2	355.4	1336.0	1134.6	1080.5	729.7	268.0	158.2
85°	76.8	73.5	100.2	100.7	167.8	1187.1	1278.2	912.7	590.3	159.1	78.1
87.5°	36.8	35.8	58.4	71.2	98.5	482.3	1434.0	935.1	595.4	81.4	37.2
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°	2425.2	2425.2	2425.2	2425.2	2425.2	2425.2	2425.2	2425.2	2425.2	2425.2	2425.2
2.5°	2401.7	2383.0	2364.6	2342.5	2319.5	2293.7	2280.9	2268.0	2264.7	2261.1	2248.2
5°	2335.5	2308.8	2263.0	2212.4	2159.1	2107.1	2067.5	2042.7	2023.8	2014.2	1997.2
7.5°	2250.0	2211.0	2130.5	2043.1	1953.5	1871.7	1800.9	1756.3	1714.0	1694.2	1671.6
10°	2168.7	2110.4	1985.2	1856.6	1727.7	1604.2	1487.8	1405.5	1332.4	1291.5	1262.5
12.5°	2098.8	2018.8	1845.5	1671.2	1494.6	1318.5	1144.4	1007.4	892.8	832.7	801.9
15°	2030.8	1934.2	1712.6	1491.5	1264.7	1025.3	796.3	641.0	546.2	508.5	495.6
17.5°	1969.2	1845.5	1579.3	1310.3	1027.6	737.9	535.2	449.6	413.3	400.9	396.7
20°	1902.5	1755.8	1440.9	1120.9	780.2	515.8	417.9	380.2	365.5	361.8	360.0
22.5°	1838.1	1667.6	1308.5	918.1	560.4	398.1	359.0	343.4	341.1	344.3	344.3
25°	1783.4	1588.4	1165.5	706.2	411.5	335.2	321.3	317.7	326.4	338.3	340.7
27.5°	1742.4	1523.6	1013.3	521.3	327.8	291.5	291.0	296.9	318.6	341.7	346.3
30°	1714.4	1462.0	850.6	376.1	274.9	256.5	263.9	276.8	308.5	341.1	349.8
32.5°	1700.2	1416.5	680.9	291.0	235.4	225.3	237.7	253.4	284.6	314.8	326.4
35°	1711.2	1383.0	520.9	242.8	207.8	200.0	212.8	228.1	246.4	259.3	268.0
37.5°	1752.6	1369.6	393.2	217.4	188.9	181.6	191.7	200.5	207.8	211.5	215.7
40°	1841.8	1383.9	314.8	204.7	178.4	169.3	173.2	176.6	181.2	184.8	186.7
42.5°	1973.3	1426.6	282.3	199.5	172.8	159.5	158.7	159.9	166.0	172.8	174.3
45°	2157.3	1502.0	280.0	202.7	170.1	151.8	147.6	149.4	158.7	169.3	171.0
47.5°	2392.1	1616.9	298.4	212.4	172.4	147.6	140.7	143.0	154.5	168.7	171.0
50°	2676.8	1777.4	329.2	226.7	182.6	148.5	138.4	139.8	151.8	167.3	169.7
52.5°	3012.9	2005.0	362.7	240.5	193.1	154.5	140.2	137.0	148.0	161.8	164.6
55°	3386.6	2296.9	397.2	252.8	198.7	161.8	143.9	133.3	141.2	152.6	154.9
57.5°	3845.4	2705.3	457.0	264.9	202.2	166.8	147.6	129.7	132.4	140.7	142.5
60°	4466.5	3282.7	562.2	284.6	210.6	168.7	147.2	126.4	123.7	128.3	129.2
62.5°	5210.9	3909.8	650.1	309.4	224.3	170.1	144.3	124.1	116.4	116.4	117.2
65°	5652.7	4077.5	601.4	330.1	235.9	168.7	141.2	121.9	110.8	105.8	106.2
67.5°	5278.0	3586.1	515.3	334.3	235.4	162.2	136.1	117.7	105.3	97.5	97.0
69°	4808.6	3094.2	476.8	323.2	224.3	154.0	129.7	113.1	101.2	92.9	92.5
70°	4430.3	2794.0	451.5	311.3	212.4	148.0	124.5	108.9	97.9	90.1	89.1
72.5°	3221.1	1830.7	385.6	267.5	175.2	124.1	107.6	95.6	87.4	82.7	81.8
75°	1609.6	873.1	313.1	217.0	134.3	99.3	88.3	80.0	75.8	75.0	74.6
77.5°	528.7	400.0	223.9	161.8	99.8	77.7	71.2	65.3	64.4	67.0	66.2
80°	290.5	232.6	142.0	107.1	68.1	57.1	56.0	52.9	54.3	58.9	57.9
82.5°	148.0	121.0	87.9	64.4	46.0	41.0	44.6	42.7	44.6	48.7	48.3
85°	73.1	66.2	55.6	39.2	30.4	26.2	31.6	33.1	34.0	37.2	37.2
87.5°	42.3	39.2	29.4	18.3	15.2	13.7	18.3	17.9	21.2	23.0	22.5
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)