

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: P194309

Luminaire Tested: **GLEON-AF-01-LED-E1-AFL-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-AFL-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6394 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 59
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

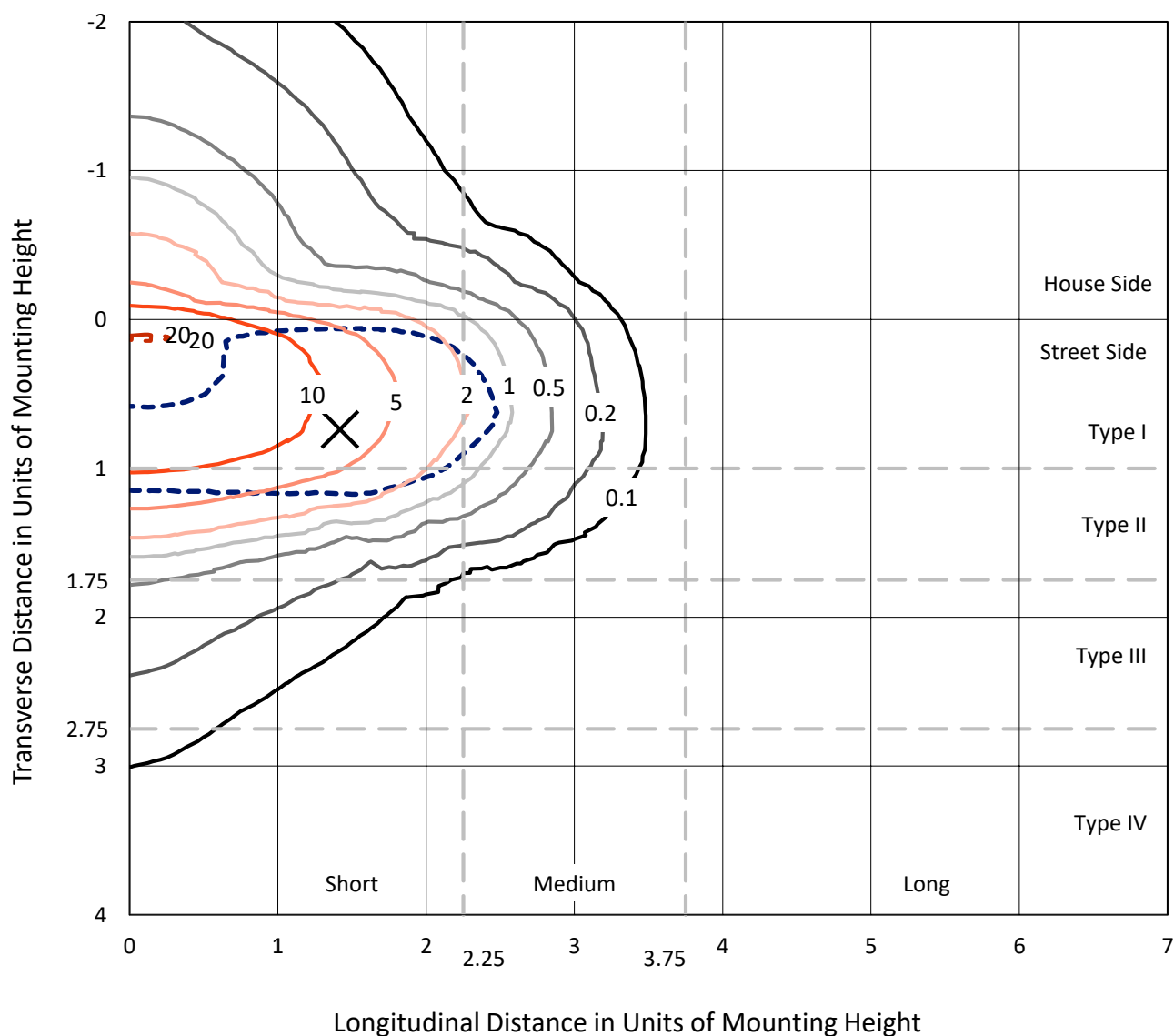


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

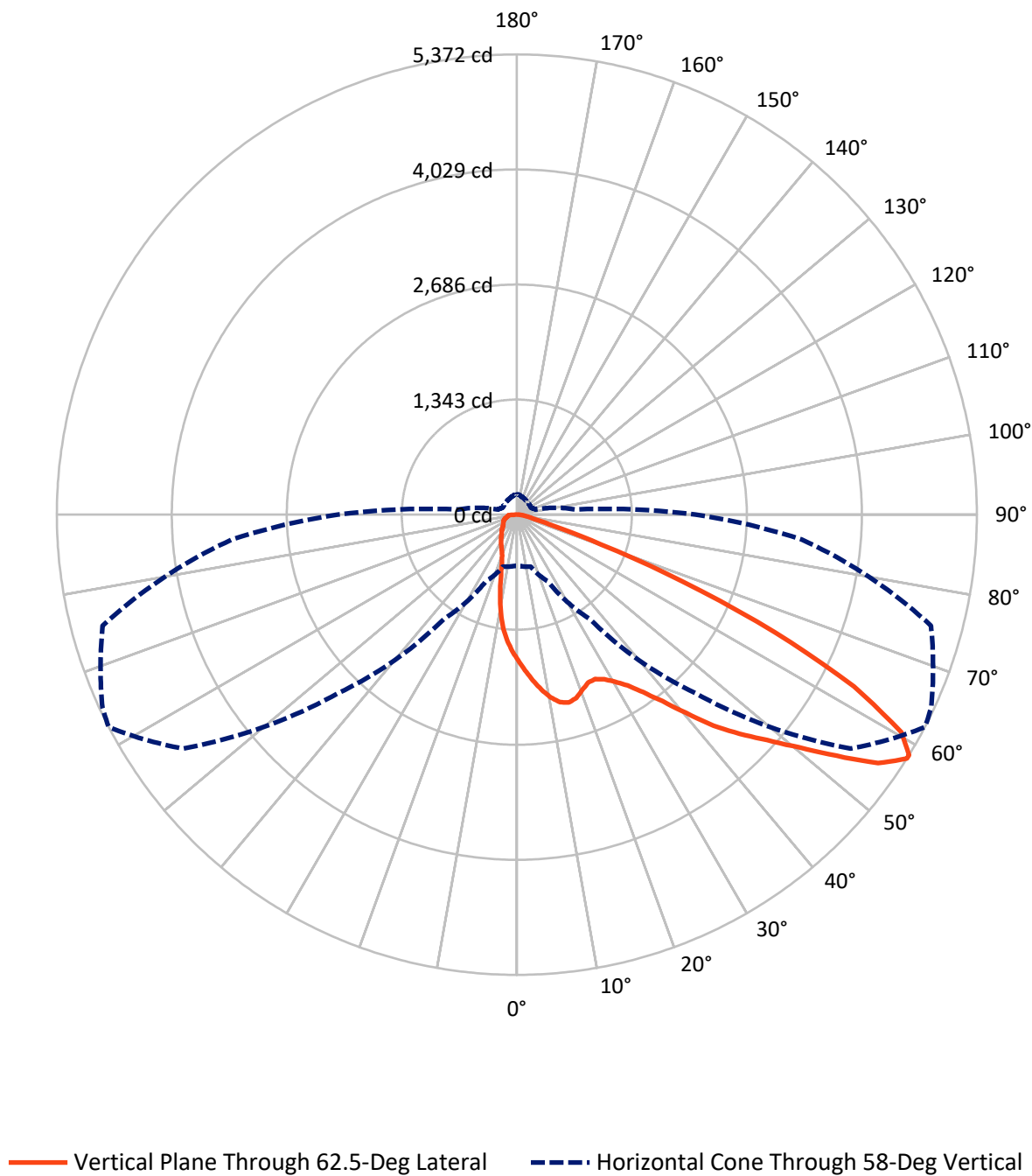


Based on 10 foot mounting height. Maximum calculated value = 20.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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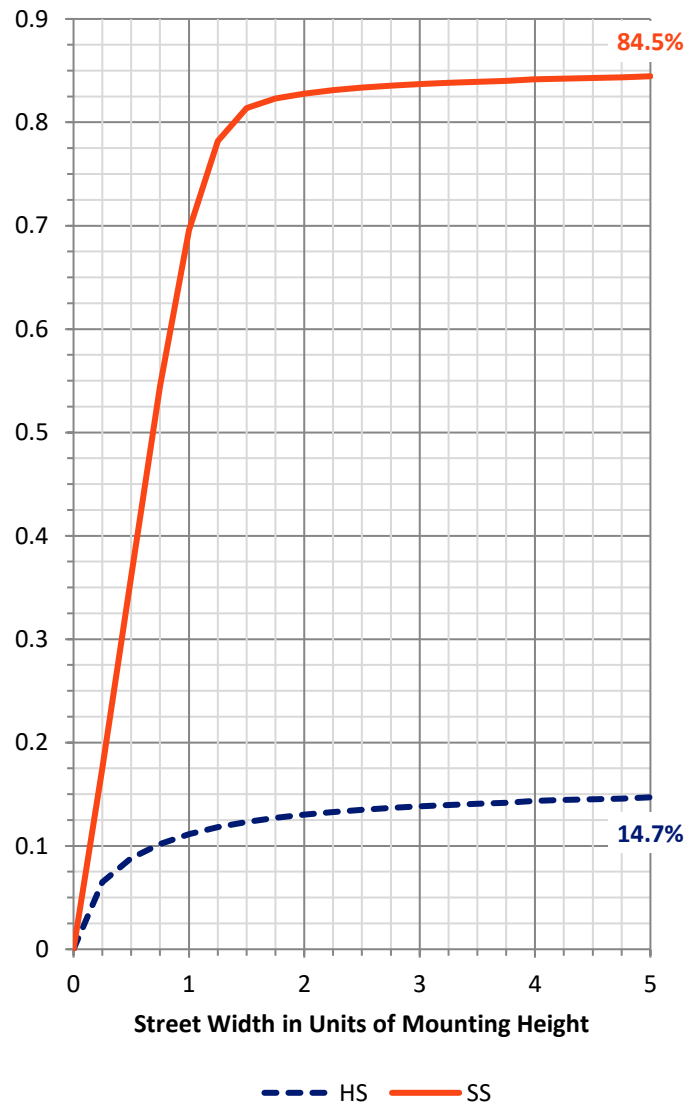
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	975.1	0.0	975.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	5418.9	0.0	5418.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	6394.0	0.0	6394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	2.4
10°-20°	388.3	6.1
20°-30°	627.7	9.8
30°-40°	996.4	15.6
40°-50°	1458.0	22.8
50°-60°	1524.9	23.8
60°-70°	900.9	14.1
70°-80°	253.8	4.0
80°-90°	92.1	1.4
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°	6394.0	100.0
0°-180°	6394.0	100.0

Coefficient of Utilization



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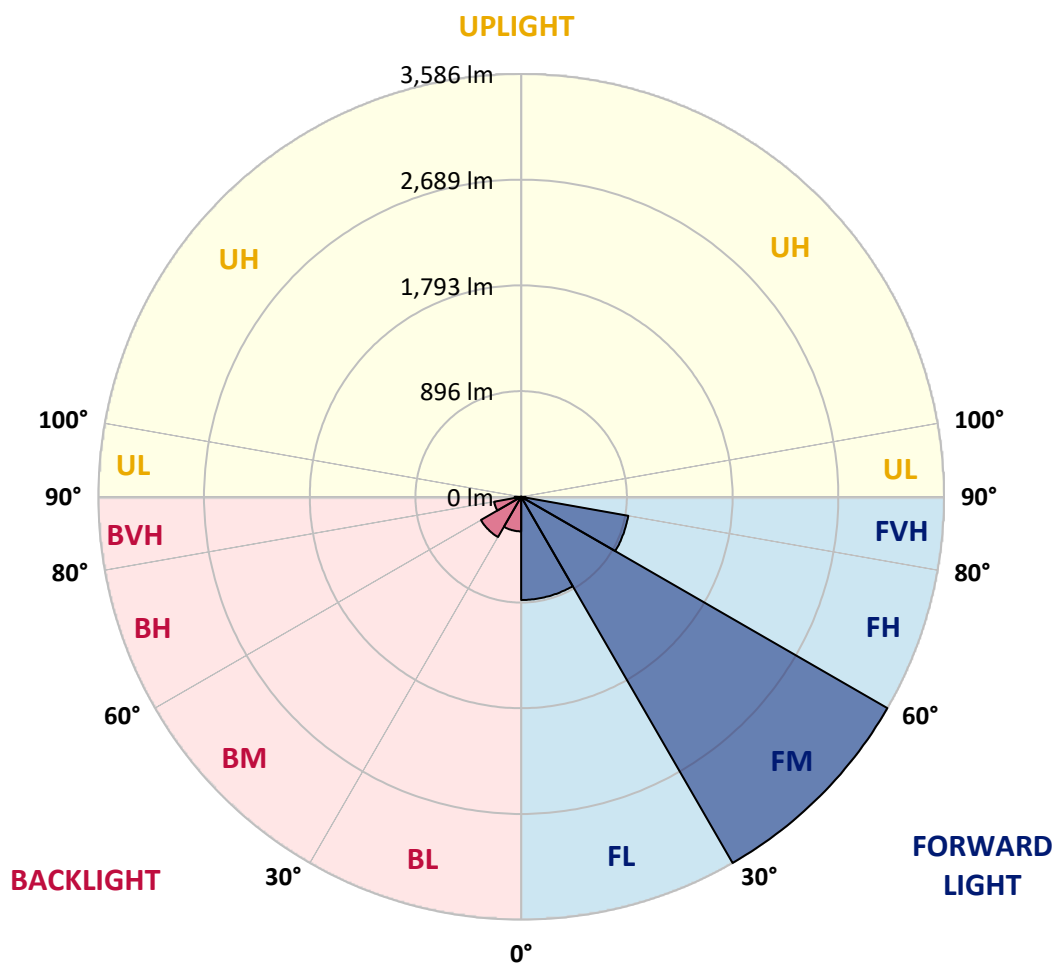
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	874.8	13.7			
FM	(30°-60°)	3585.7	56.1			
FH	(60°-80°)	922.0	14.4			G1/1800
FVH	(80°-90°)	36.4	0.6			G1/100
BL	(0°-30°)	293.1	4.6	B1/500		
BM	(30°-60°)	393.6	6.2	B1/1000		
BH	(60°-80°)	232.7	3.6	B1/500		G1/500
BVH	(80°-90°)	55.8	0.9			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°	62.5°	65°	75°	85°
0°	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4
2.5°	1940.8	1925.2	1915.2	1906.5	1895.0	1870.7	1837.8	1817.1	1806.5	1770.7	1728.2
5°	2131.1	2117.2	2107.0	2095.3	2074.8	2036.6	1983.6	1941.4	1920.6	1849.0	1764.1
7.5°	2086.5	2092.3	2110.0	2141.0	2167.5	2162.4	2115.1	2061.5	2034.1	1934.5	1805.6
10°	1818.0	1827.9	1858.6	1931.2	2048.6	2169.0	2205.8	2168.7	2141.0	2019.1	1848.4
12.5°	1764.1	1763.8	1766.2	1785.5	1855.3	2024.8	2208.8	2246.1	2229.6	2099.8	1892.0
15°	1786.1	1786.7	1784.8	1793.0	1814.7	1881.8	2116.6	2275.9	2287.7	2181.1	1937.2
17.5°	1843.9	1842.4	1835.4	1835.4	1843.3	1869.5	2008.3	2248.2	2302.4	2253.0	1976.9
20°	1940.8	1933.9	1915.5	1898.7	1890.2	1904.4	1963.7	2184.4	2276.8	2316.0	2009.8
22.5°	2058.2	2052.8	2023.0	1986.9	1957.7	1957.4	1986.6	2128.7	2232.6	2375.3	2037.5
25°	2210.0	2201.3	2157.0	2099.2	2048.0	2028.4	2036.6	2126.0	2208.5	2439.7	2062.1
27.5°	2388.2	2372.3	2319.9	2236.5	2161.2	2121.8	2110.0	2175.1	2230.5	2519.5	2096.5
30°	2604.4	2586.0	2518.9	2410.2	2303.9	2239.2	2214.2	2262.1	2303.3	2616.8	2151.6
32.5°	2850.4	2823.9	2746.2	2626.4	2486.7	2387.9	2347.3	2377.1	2409.9	2733.9	2220.5
35°	3190.3	3158.7	3046.4	2881.1	2723.3	2587.5	2522.5	2544.2	2576.1	2908.5	2320.2
37.5°	3422.2	3408.0	3333.3	3178.0	3006.4	2850.1	2749.5	2762.2	2780.2	3126.8	2447.8
40°	3420.1	3425.8	3427.3	3428.8	3312.0	3162.3	3054.2	3041.0	3037.4	3366.5	2593.0
42.5°	3248.7	3272.2	3348.1	3502.0	3573.0	3504.4	3405.3	3367.1	3348.1	3648.9	2746.8
45°	2986.5	2999.1	3141.2	3441.7	3706.7	3843.1	3768.1	3647.7	3613.4	3908.4	2874.5
47.5°	2851.3	2865.2	2954.6	3282.2	3705.2	4116.8	4160.1	3930.7	3869.3	4134.2	2984.7
50°	2529.4	2558.3	2670.9	3004.6	3570.0	4242.6	4569.9	4267.9	4140.9	4354.0	3095.2
52.5°	1938.4	1983.0	2109.1	2548.1	3227.1	4180.3	4897.8	4676.8	4497.3	4581.7	3190.0
55°	1222.7	1255.8	1361.8	1799.6	2581.5	3856.0	5022.1	5119.1	4959.5	4797.2	3272.2
57.5°	664.8	679.6	719.3	993.6	1679.2	3139.1	4840.9	5370.8	5304.6	4980.3	3334.2
58°	594.9	604.9	629.6	861.1	1489.2	2943.1	4760.5	5371.7	5338.6	5007.1	3339.1
60°	441.4	436.3	414.3	491.4	828.9	2033.2	4274.5	5156.7	5254.0	5039.9	3315.6
62.5°	387.8	375.5	330.6	325.5	403.2	936.7	3270.7	4417.3	4647.0	4852.6	3172.9
65°	364.3	351.1	293.3	274.6	290.9	396.2	1926.7	3312.9	3601.0	4284.8	2807.9
67.5°	346.9	329.7	269.5	243.9	245.1	261.9	772.3	2086.5	2410.8	3253.3	2184.1
70°	330.0	311.3	249.3	219.8	212.9	207.1	307.1	1044.5	1338.6	2054.9	1392.5
72.5°	311.9	293.6	231.5	200.8	187.3	168.3	200.5	427.2	596.8	972.2	631.7
75°	285.7	269.2	213.8	184.0	164.7	139.4	151.4	223.1	267.7	387.2	304.4
77.5°	253.5	240.0	193.9	170.1	146.0	113.2	116.5	154.8	171.6	221.6	181.0
80°	182.2	187.0	172.5	153.0	130.1	91.8	89.4	112.9	121.9	142.4	117.7
82.5°	128.0	130.7	142.7	125.0	107.5	72.3	65.9	79.5	84.9	93.6	63.5
85°	88.2	85.2	97.9	87.0	77.7	48.2	45.2	53.9	57.2	58.1	32.8
87.5°	53.0	53.0	56.6	46.7	41.9	25.0	24.4	30.7	32.8	31.3	18.1
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°	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4
2.5°	1703.0	1681.6	1636.1	1599.7	1553.6	1505.7	1478.9	1450.3	1430.8	1416.6	1439.2
5°	1715.9	1672.2	1578.3	1489.2	1390.7	1288.4	1210.7	1138.4	1088.1	1056.8	1086.3
7.5°	1736.4	1669.2	1519.6	1367.2	1190.5	1020.1	867.7	772.3	716.6	689.2	706.4
10°	1759.9	1664.4	1450.6	1201.9	949.0	734.4	620.5	582.0	569.4	564.2	566.6
12.5°	1779.4	1654.2	1366.0	1002.0	712.7	579.9	547.1	546.2	548.9	549.5	550.4
15°	1793.3	1639.1	1240.5	793.7	570.0	528.4	526.6	532.0	537.1	539.2	540.5
17.5°	1802.6	1608.1	1098.7	627.5	510.6	503.4	507.6	514.6	520.0	521.5	522.7
20°	1801.7	1562.6	929.8	523.3	478.4	478.4	485.7	491.1	491.4	489.6	490.5
22.5°	1792.4	1500.3	766.0	467.9	449.8	454.9	462.2	457.1	436.0	422.1	423.0
25°	1776.7	1426.0	625.7	432.7	423.3	432.4	430.3	391.7	361.6	348.1	348.1
27.5°	1762.9	1338.0	517.9	402.0	396.8	408.0	370.6	335.7	323.1	316.7	314.6
30°	1752.9	1243.2	445.9	372.4	371.8	363.7	321.6	311.9	309.8	304.7	302.9
32.5°	1755.3	1147.1	399.8	346.6	348.7	311.3	298.1	300.2	298.4	293.0	290.5
35°	1775.2	1055.9	369.7	323.1	316.7	281.2	284.2	288.1	287.5	280.0	277.6
37.5°	1810.7	969.5	349.9	303.5	276.4	266.2	271.0	277.0	275.5	270.4	268.6
40°	1848.1	888.2	333.6	288.1	252.6	255.9	260.1	263.5	265.0	266.5	265.3
42.5°	1884.5	803.3	313.7	272.5	242.7	246.3	248.1	251.4	259.5	265.3	265.0
45°	1906.2	723.5	293.3	250.2	234.8	237.0	235.8	242.4	252.3	261.6	261.9
47.5°	1930.3	661.5	277.0	229.7	227.3	228.8	225.2	231.8	240.9	252.3	253.5
50°	1959.5	624.5	264.1	213.5	217.1	217.1	216.2	222.2	234.8	248.1	250.5
52.5°	1992.6	617.2	253.2	201.7	206.8	206.5	207.4	216.5	230.3	243.3	245.4
55°	2032.9	636.8	241.5	193.0	196.9	198.1	201.1	211.4	223.1	237.9	238.8
57.5°	2079.9	676.5	232.1	186.1	187.9	191.8	196.6	205.9	218.6	234.8	235.8
58°	2087.7	685.0	230.6	185.5	186.1	190.6	196.0	205.0	217.7	235.5	236.4
60°	2088.0	713.0	227.3	182.8	179.1	186.7	192.7	201.7	216.2	237.6	239.7
62.5°	2014.0	712.7	224.9	178.8	171.9	181.3	188.2	198.7	214.7	242.7	246.9
65°	1773.4	647.6	213.5	172.8	166.2	176.4	184.3	196.6	218.9	265.0	267.7
67.5°	1387.1	530.8	192.1	164.4	158.7	171.6	181.9	196.3	223.4	270.1	271.9
70°	917.1	397.1	168.6	154.8	150.8	165.9	183.1	206.5	218.3	259.2	254.4
72.5°	476.0	278.8	149.6	142.7	141.8	160.8	200.5	205.3	213.2	243.9	237.9
75°	249.9	193.6	133.1	129.5	131.0	159.6	236.7	199.9	206.5	233.3	244.8
77.5°	153.0	156.3	118.9	117.4	120.4	156.0	236.4	193.0	196.9	214.7	227.3
80°	102.4	126.8	108.1	108.4	110.5	142.7	212.3	182.2	185.2	202.9	215.9
82.5°	64.7	75.0	98.2	103.3	100.6	117.7	180.4	165.9	170.1	232.1	245.4
85°	32.8	47.0	85.2	99.4	90.6	82.5	146.3	145.4	147.5	167.4	174.9
87.5°	15.1	25.9	66.5	86.7	68.3	51.5	106.3	107.8	116.2	118.9	118.9
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)