

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: P194829

Luminaire Tested: **GLEON-AF-01-LED-E1-T3R-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6372 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

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



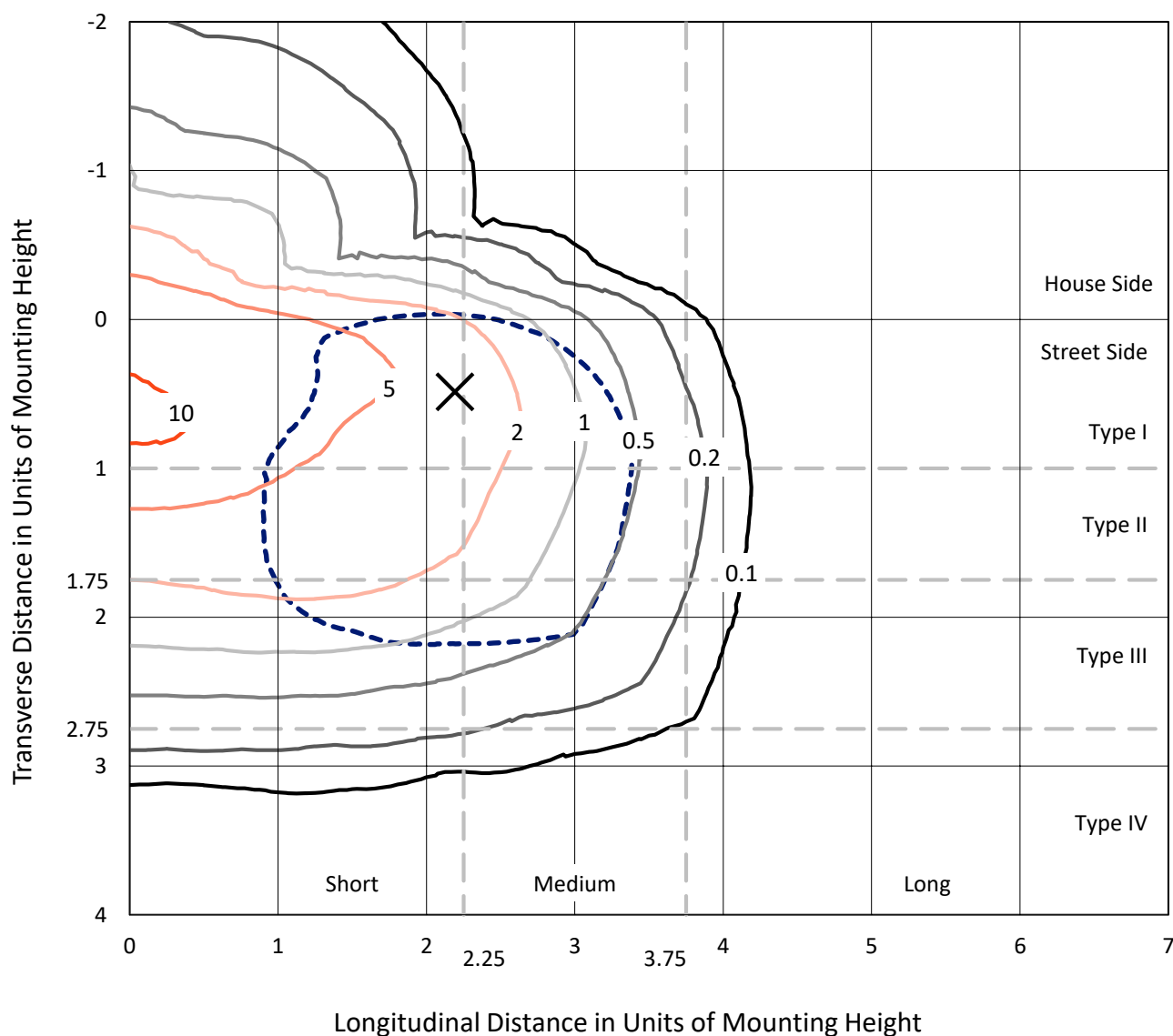
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

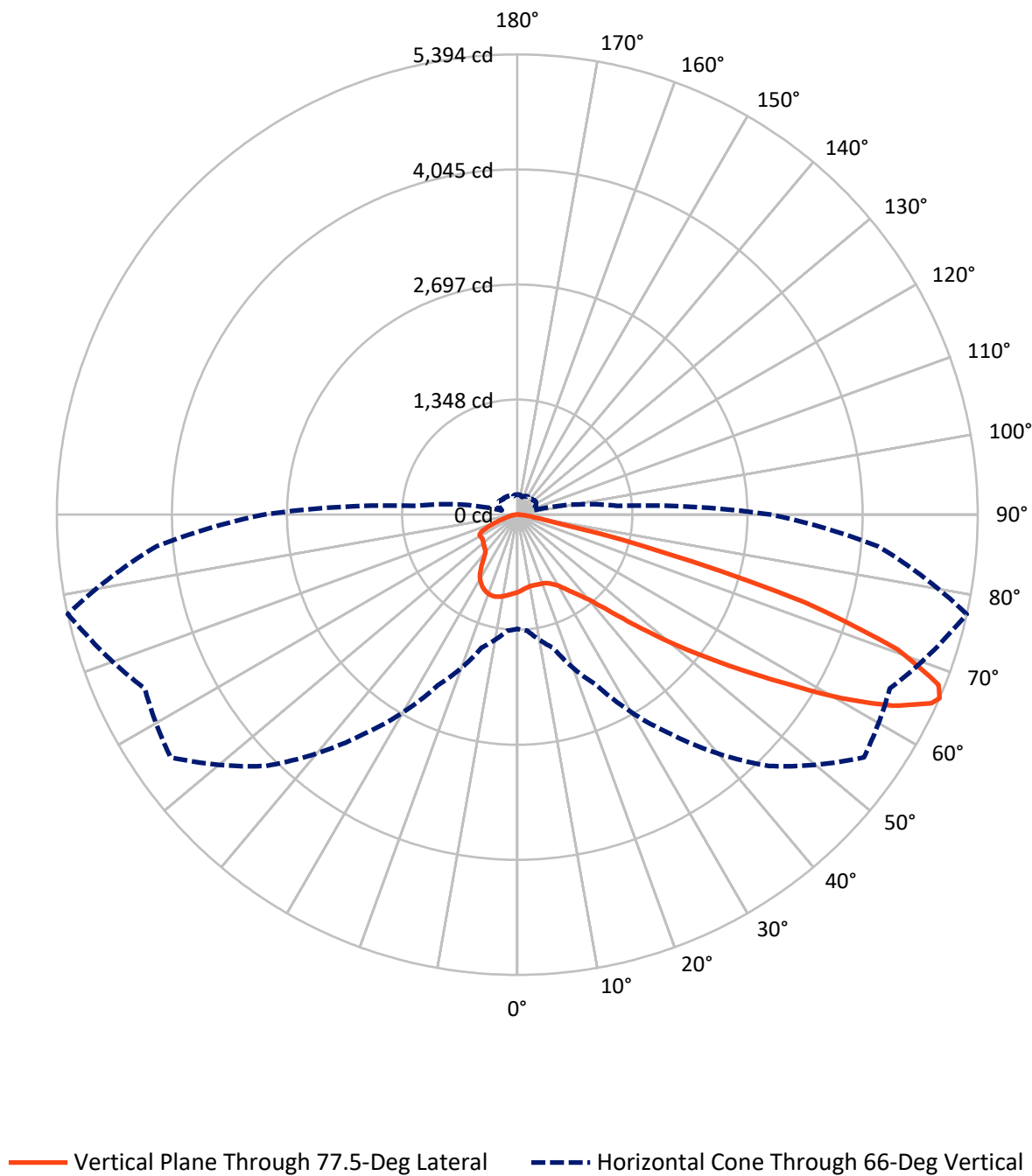


Based on 10 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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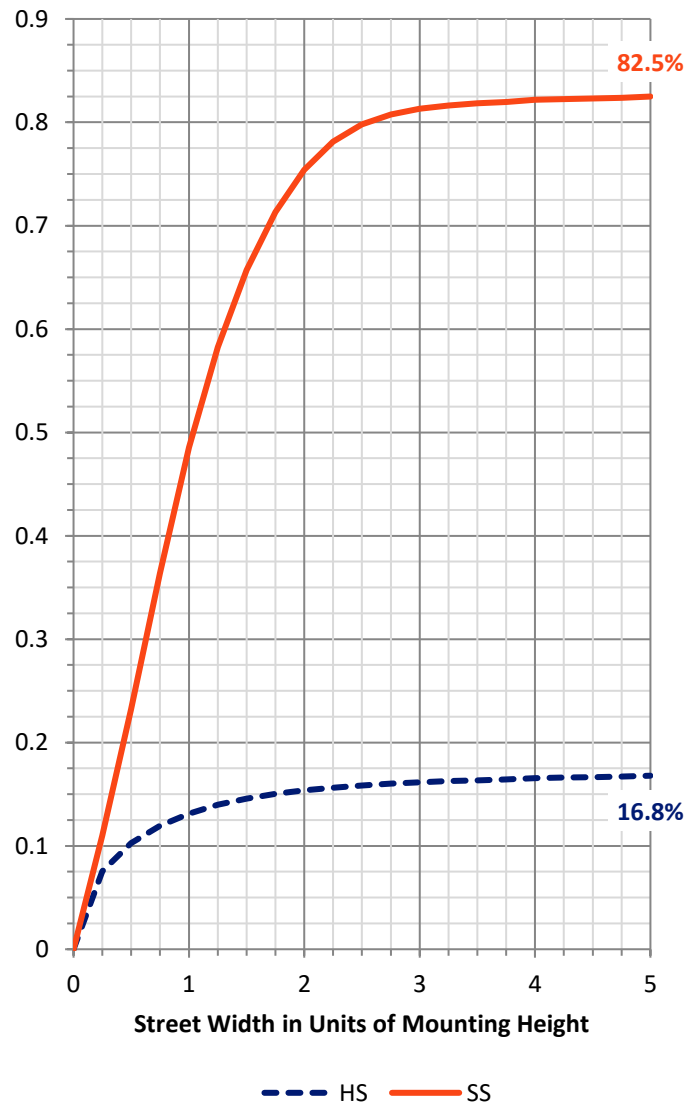
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1088.6	0.0	1088.6
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	5283.4	0.0	5283.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	6372.0	0.0	6372.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.1	1.3
10°-20°	228.9	3.6
20°-30°	390.6	6.1
30°-40°	625.3	9.8
40°-50°	966.0	15.2
50°-60°	1370.1	21.5
60°-70°	1832.9	28.8
70°-80°	796.0	12.5
80°-90°	81.2	1.3
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°	6372.0	100.0
0°-180°	6372.0	100.0

Coefficient of Utilization



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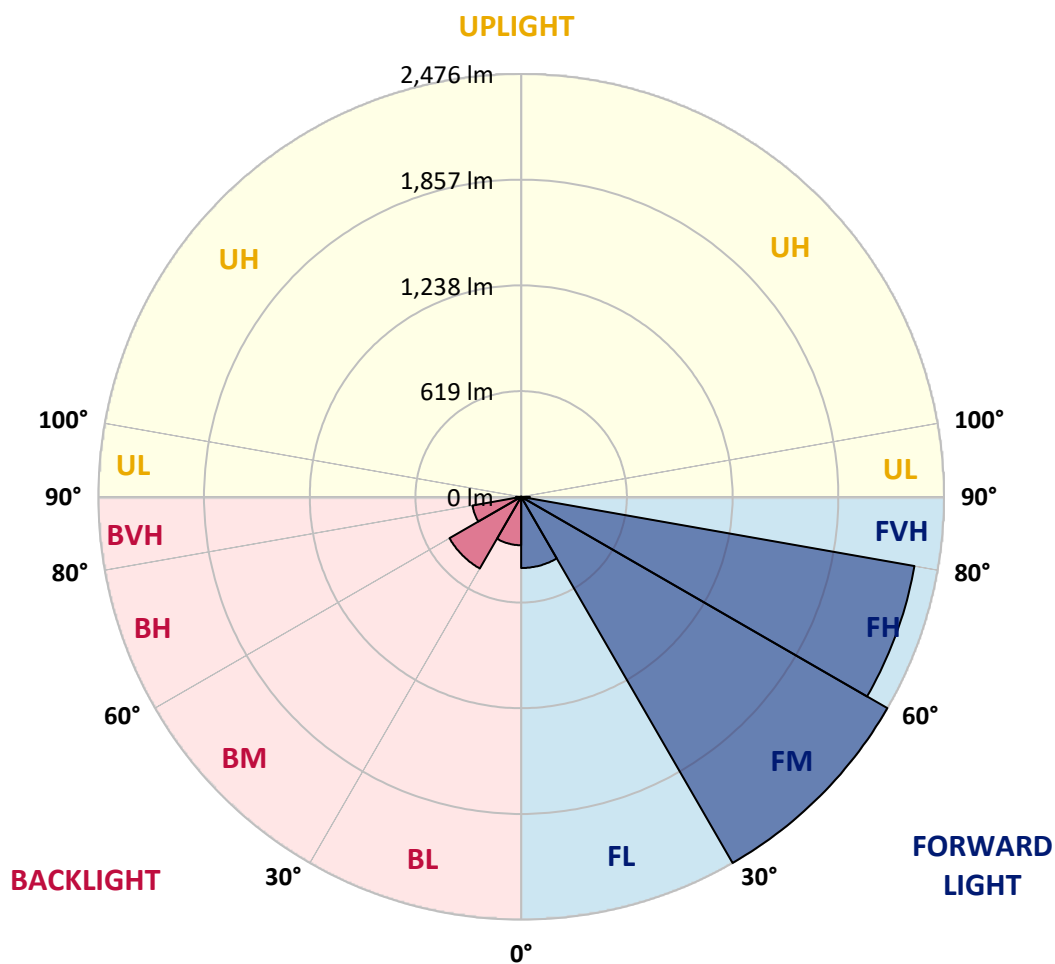
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	417.1	6.5			
FM	(30°-60°)	2476.5	38.9			
FH	(60°-80°)	2338.9	36.7			G2/5000
FVH	(80°-90°)	50.9	0.8			G1/100
BL	(0°-30°)	283.5	4.4	B1/500		
BM	(30°-60°)	484.9	7.6	B1/1000		
BH	(60°-80°)	289.9	4.5	B1/500		G1/500
BVH	(80°-90°)	30.3	0.5			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	908.0	908.0	908.0	908.0	908.0	908.0	908.0	908.0	908.0	908.0	908.0
2.5°	803.3	808.7	813.2	817.4	825.8	839.7	855.7	868.6	887.3	890.9	900.8
5°	729.5	729.5	733.1	739.4	750.9	771.7	793.3	822.2	862.9	872.5	899.0
7.5°	693.7	694.0	696.1	701.5	711.4	730.4	754.2	788.2	843.3	859.3	904.4
10°	706.9	703.9	699.4	696.7	698.2	709.3	731.9	769.8	831.3	851.7	916.5
12.5°	781.0	775.3	759.6	738.8	719.0	710.8	724.1	761.1	826.1	849.9	932.4
15°	902.0	899.6	870.4	827.4	779.2	738.8	729.8	757.8	826.8	852.0	951.4
17.5°	1053.8	1050.4	1011.9	949.3	870.7	792.1	750.0	760.5	828.9	855.7	969.8
20°	1207.0	1196.8	1155.2	1080.6	979.7	864.7	783.4	767.4	831.6	859.6	989.0
22.5°	1321.4	1313.0	1275.7	1203.1	1086.9	948.7	828.3	779.5	840.3	871.0	1012.8
25°	1422.0	1422.6	1385.5	1315.4	1195.3	1037.8	886.1	811.7	862.6	894.5	1045.3
27.5°	1546.3	1539.1	1504.5	1434.9	1302.4	1127.8	955.9	856.0	895.7	927.9	1088.1
30°	1695.0	1689.9	1649.9	1571.0	1421.4	1224.5	1035.7	907.4	938.4	971.9	1144.1
32.5°	1870.0	1867.6	1826.0	1724.6	1558.7	1338.3	1129.3	975.5	1002.3	1036.9	1224.5
35°	2075.3	2075.6	2026.5	1904.6	1708.9	1470.7	1235.6	1063.1	1080.0	1116.1	1320.2
37.5°	2201.8	2217.1	2198.7	2074.4	1879.0	1618.9	1373.5	1179.3	1168.5	1204.9	1422.9
40°	2228.9	2247.5	2305.6	2242.4	2069.3	1782.1	1495.7	1291.0	1277.5	1322.0	1555.0
42.5°	2190.9	2216.8	2339.6	2384.2	2271.3	1983.2	1660.1	1456.9	1439.7	1499.7	1719.4
45°	2168.3	2187.6	2329.7	2458.0	2446.5	2210.5	1869.4	1665.2	1658.9	1737.5	1909.1
47.5°	2129.2	2146.7	2283.3	2475.1	2549.5	2418.8	2120.8	1920.0	1932.3	2035.3	2123.2
50°	2150.3	2157.5	2231.6	2431.5	2579.3	2571.5	2401.7	2215.0	2257.2	2385.7	2365.5
52.5°	2147.3	2165.9	2225.5	2359.8	2583.2	2665.7	2678.4	2544.1	2632.9	2780.4	2634.4
55°	1736.0	1770.3	2154.8	2341.8	2597.1	2758.1	2924.6	2890.9	3056.5	3228.4	2937.9
57.5°	1657.7	1679.4	1892.6	2379.7	2670.5	2934.6	3198.6	3272.7	3549.7	3749.3	3307.6
60°	1642.4	1669.2	1889.8	2426.1	2819.6	3222.1	3604.8	3734.8	4149.7	4368.3	3736.3
62.5°	1594.5	1623.4	1872.1	2420.0	3031.2	3619.8	4124.7	4226.2	4718.7	4931.3	4094.9
65°	1442.7	1469.8	1727.3	2322.8	3173.9	4044.3	4740.1	4676.6	5167.9	5327.8	4273.8
66°	1338.9	1365.4	1613.2	2208.4	3140.8	4164.8	4958.1	4816.0	5268.5	5393.7	4238.8
67.5°	1148.9	1169.7	1391.6	1952.2	2964.7	4198.5	5141.4	4920.8	5279.0	5323.3	4039.2
70°	725.9	731.9	904.4	1347.6	2244.2	3641.2	4862.4	4660.6	4843.7	4723.9	3386.2
72.5°	314.9	312.8	434.1	685.5	1270.5	2443.2	3933.2	3845.6	3799.6	3526.2	2370.4
75°	175.2	177.6	225.5	318.2	516.3	1200.1	2573.0	2462.2	2078.9	1773.9	1074.8
77.5°	140.6	143.9	187.0	225.8	231.8	418.5	1204.0	979.7	589.8	473.3	298.7
80°	111.1	117.1	163.2	175.8	156.3	172.5	389.0	311.0	233.3	214.1	154.8
82.5°	87.9	92.1	140.0	133.1	109.3	116.2	186.4	181.5	151.7	138.2	89.4
85°	63.2	71.1	115.0	100.3	71.7	78.3	123.7	118.6	87.0	71.1	39.4
87.5°	25.9	33.7	81.3	66.5	40.0	36.4	61.7	58.1	41.2	30.1	19.6
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°	908.0	908.0	908.0	908.0	908.0	908.0	908.0	908.0	908.0	908.0	908.0
2.5°	907.1	914.4	923.7	929.4	932.4	934.5	937.8	937.5	938.4	938.7	940.0
5°	913.2	925.2	938.7	942.4	942.4	939.1	935.7	930.3	928.2	927.6	928.2
7.5°	928.8	942.1	953.8	949.6	940.6	927.3	910.1	895.1	887.0	884.3	883.7
10°	948.7	964.6	969.5	953.5	927.0	895.1	861.1	836.4	822.2	818.3	817.1
12.5°	972.8	987.8	981.2	947.5	898.4	846.9	800.0	760.5	731.0	721.7	721.1
15°	999.3	1011.0	987.8	928.8	855.7	779.8	696.1	628.0	591.3	579.6	578.7
17.5°	1024.0	1030.0	983.9	896.3	792.7	669.9	558.8	506.4	493.8	496.8	497.4
20°	1045.0	1045.0	970.7	849.6	693.7	525.1	454.9	454.0	463.1	472.1	473.9
22.5°	1068.2	1054.4	947.5	783.7	553.4	429.6	419.4	427.8	438.1	448.0	449.5
25°	1096.8	1061.9	915.3	683.7	435.1	390.2	394.1	401.0	406.1	412.5	413.4
27.5°	1128.7	1071.5	872.8	546.1	377.5	365.5	368.5	370.9	370.3	372.7	373.3
30°	1167.0	1082.7	814.7	426.9	353.8	344.4	339.0	336.9	336.9	340.8	342.3
32.5°	1218.1	1099.2	731.3	365.8	342.3	329.4	311.9	304.1	307.1	320.3	323.4
35°	1274.4	1117.0	618.4	345.0	339.9	322.5	295.4	280.9	281.2	293.5	297.5
37.5°	1335.9	1139.6	494.7	341.1	345.3	322.8	286.6	266.8	258.6	258.6	260.1
40°	1414.4	1162.7	400.4	343.8	356.8	326.4	282.1	255.6	232.7	233.3	234.5
42.5°	1516.8	1182.6	349.8	349.5	370.6	331.2	281.8	240.9	221.0	234.5	246.9
45°	1630.6	1192.6	327.6	354.7	381.8	334.2	277.0	238.5	222.5	262.8	286.3
47.5°	1761.6	1186.8	315.2	356.5	384.5	334.2	271.6	244.2	233.0	304.4	331.8
50°	1905.2	1170.3	303.2	352.9	383.6	333.6	276.7	249.9	236.9	311.6	330.6
52.5°	2074.1	1156.4	290.5	345.0	377.2	330.3	282.7	247.5	224.6	283.3	296.6
55°	2266.8	1160.3	276.4	333.9	367.3	324.0	280.6	237.8	211.7	249.6	257.7
57.5°	2513.1	1207.0	259.5	319.7	353.8	313.4	273.1	233.3	207.7	226.4	231.2
60°	2787.9	1288.3	238.5	305.6	336.9	296.6	267.4	235.4	209.5	224.6	227.0
62.5°	2989.7	1335.6	220.4	284.8	314.0	277.9	260.1	238.1	214.4	230.9	230.3
65°	3044.5	1257.9	197.8	254.4	283.0	258.3	251.1	241.2	216.5	236.0	233.3
66°	2967.7	1174.2	187.9	240.3	267.4	248.7	246.6	240.9	215.6	236.6	232.1
67.5°	2781.3	1002.6	170.7	219.5	242.4	234.2	239.4	238.1	213.2	236.0	229.7
70°	2268.3	684.0	146.0	182.8	201.7	206.2	225.5	228.5	205.3	225.5	211.7
72.5°	1584.9	416.7	129.2	141.8	163.2	175.8	206.5	215.3	194.8	196.9	183.7
75°	765.9	221.3	117.1	109.9	126.8	146.9	183.7	197.2	178.2	164.7	159.9
77.5°	238.8	135.2	99.4	88.5	99.4	118.6	153.5	172.8	158.7	137.9	136.1
80°	128.3	99.4	76.5	71.1	78.6	93.0	120.7	144.2	136.4	123.7	110.5
82.5°	84.6	64.4	56.6	55.1	59.9	71.1	89.7	119.5	119.5	106.0	77.1
85°	43.7	39.4	38.8	38.8	41.8	47.3	61.1	92.1	98.2	56.0	46.4
87.5°	21.7	22.6	21.1	22.0	23.5	23.2	29.2	46.4	55.4	34.0	28.3
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)