

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: P194690

Luminaire Tested: **GLEON-AF-02-LED-E1-T2-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7874 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

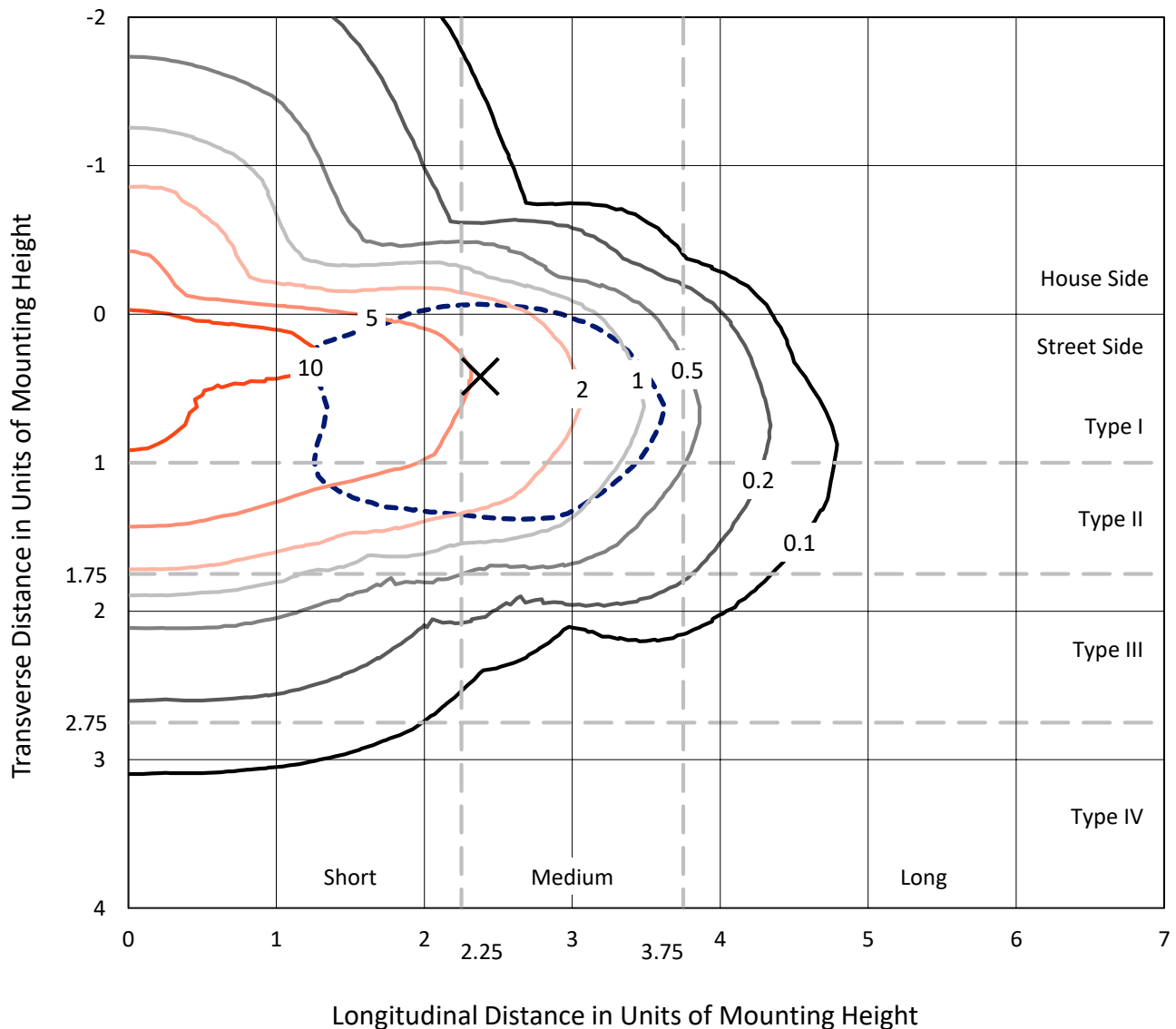


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

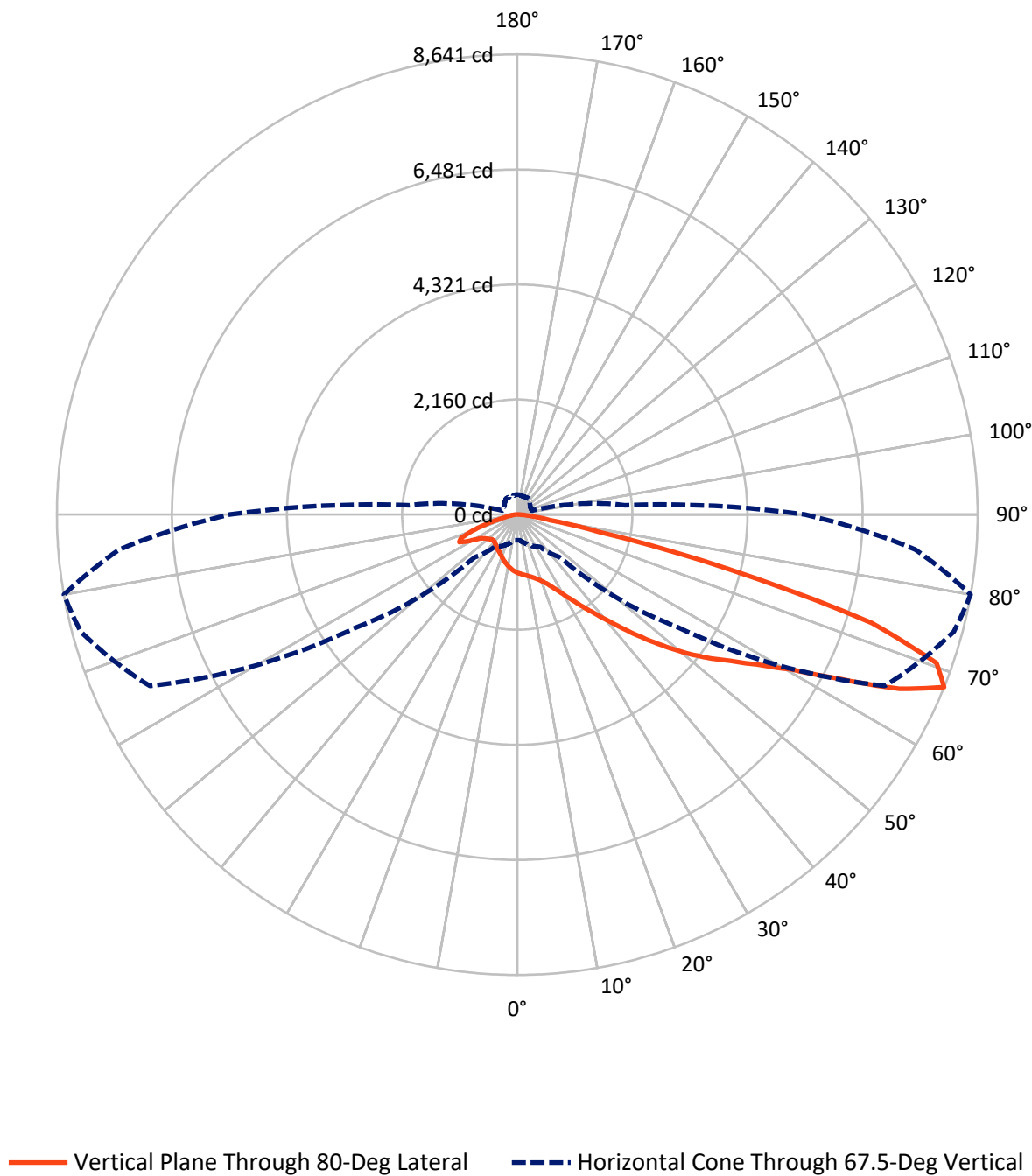


Based on 10 foot mounting height. Maximum calculated value = 13.3 fc
Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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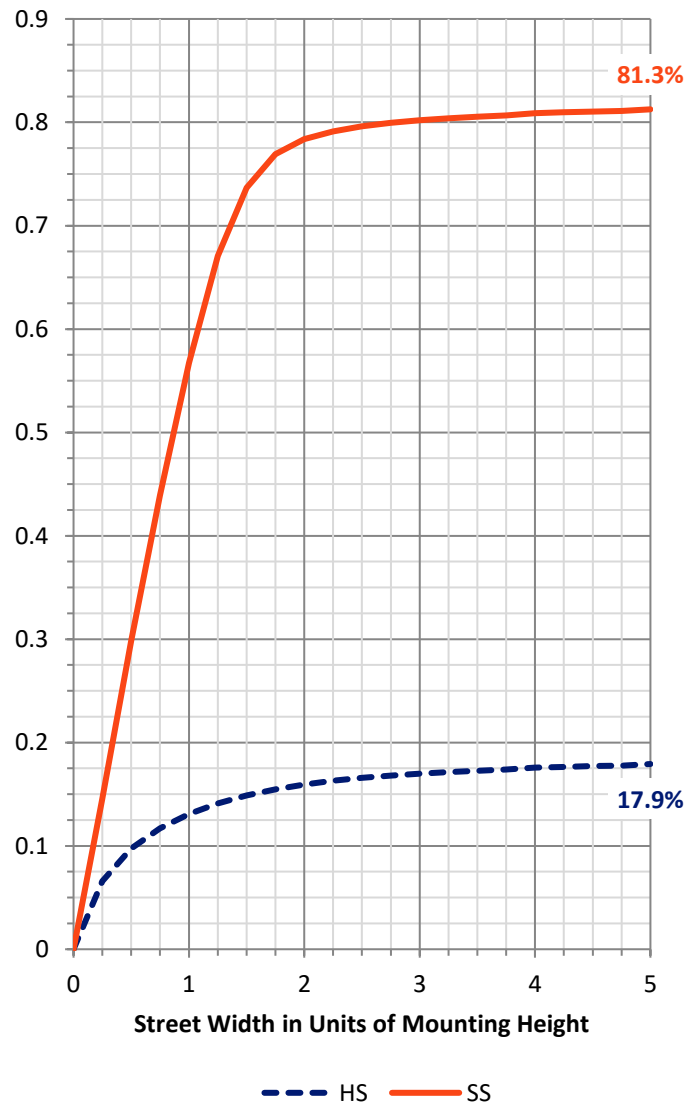
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1450.1	0.0	1450.1
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	6423.9	0.0	6423.9
	% Fixture	81.6	0.0	81.6
Total	Lumens	7874.0	0.0	7874.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	1.3
10°-20°	290.7	3.7
20°-30°	481.2	6.1
30°-40°	787.1	10.0
40°-50°	1270.8	16.1
50°-60°	1834.6	23.3
60°-70°	2024.6	25.7
70°-80°	933.2	11.9
80°-90°	150.9	1.9
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°	7874.0	100.0
0°-180°	7874.0	100.0

Coefficient of Utilization



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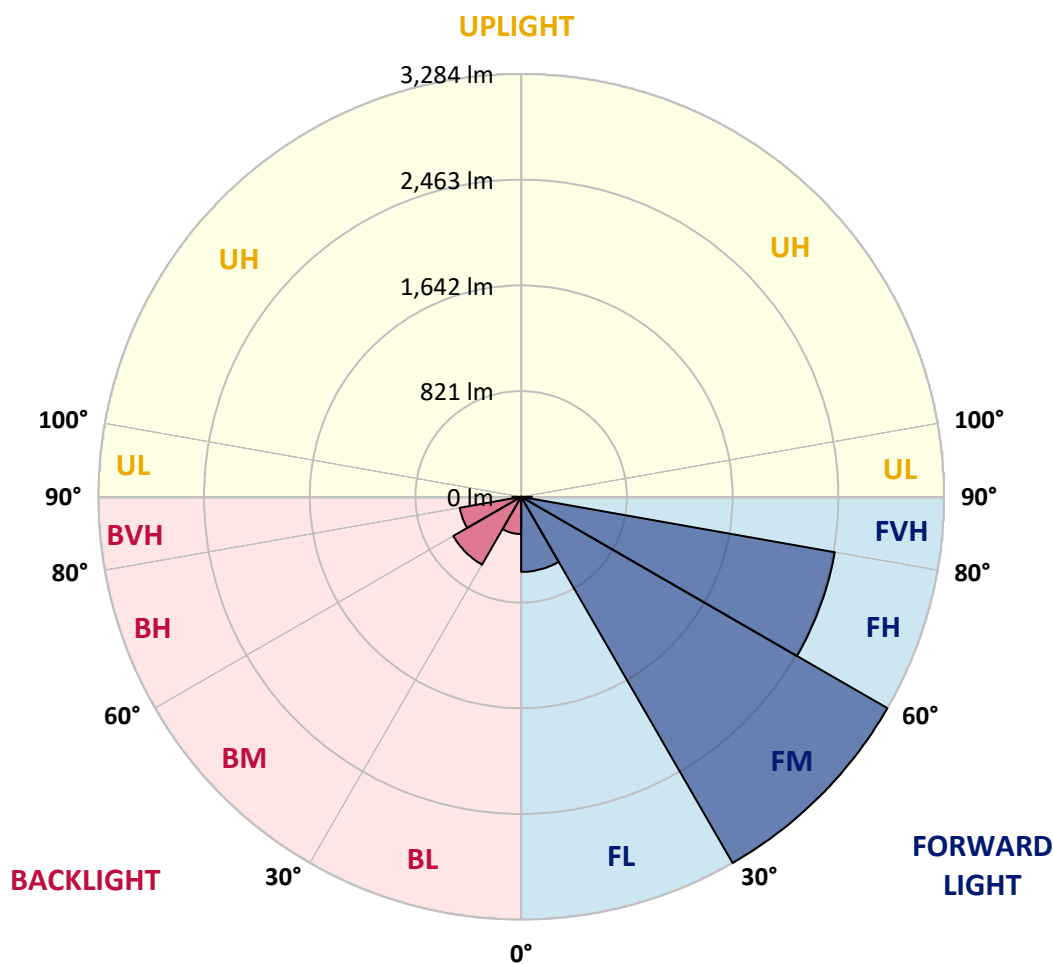
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	583.4	7.4			
FM	(30°-60°)	3284.1	41.7			
FH	(60°-80°)	2473.4	31.4			G2/5000
FVH	(80°-90°)	83.0	1.1			G1/100
BL	(0°-30°)	289.3	3.7	B1/500		
BM	(30°-60°)	608.4	7.7	B1/1000		
BH	(60°-80°)	484.4	6.2	B1/500		G1/500
BVH	(80°-90°)	68.0	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1093.9	1093.9	1093.9	1093.9	1093.9	1093.9	1093.9	1093.9	1093.9	1093.9	1093.9
2.5°	1196.7	1189.7	1190.8	1188.9	1183.1	1173.0	1162.2	1142.4	1121.8	1111.0	1102.5
5°	1296.7	1294.7	1292.0	1285.8	1271.1	1250.1	1224.2	1189.3	1151.7	1131.9	1112.9
7.5°	1371.5	1370.3	1366.8	1363.0	1348.6	1323.4	1284.3	1234.6	1180.0	1152.8	1123.4
10°	1377.7	1379.6	1382.3	1392.8	1394.7	1381.2	1341.2	1281.2	1209.4	1174.6	1137.0
12.5°	1325.0	1329.2	1339.7	1366.4	1394.7	1411.4	1390.9	1330.0	1243.9	1201.7	1154.0
15°	1255.2	1257.5	1270.3	1307.1	1357.9	1409.5	1428.9	1383.9	1288.5	1236.6	1179.6
17.5°	1225.3	1226.5	1235.4	1259.8	1307.1	1380.8	1450.2	1442.4	1343.2	1280.0	1211.0
20°	1210.2	1212.9	1225.7	1249.8	1279.6	1344.0	1453.3	1505.6	1408.3	1334.3	1250.5
22.5°	1253.2	1252.1	1256.7	1268.8	1294.0	1332.7	1450.9	1570.7	1491.3	1404.0	1302.1
25°	1353.6	1357.9	1349.8	1336.2	1344.3	1371.5	1463.4	1641.3	1595.1	1493.6	1369.5
27.5°	1496.7	1492.4	1480.4	1448.6	1432.0	1443.6	1504.4	1717.3	1724.2	1611.4	1458.7
30°	1639.3	1635.9	1624.2	1585.5	1551.3	1541.7	1584.3	1804.5	1878.1	1752.9	1568.0
32.5°	1787.4	1783.5	1772.7	1733.9	1692.8	1670.4	1697.9	1905.3	2059.5	1921.9	1696.7
35°	1970.0	1962.6	1939.8	1885.9	1845.6	1828.1	1840.9	2032.0	2268.9	2122.0	1852.9
37.5°	2141.7	2153.0	2129.7	2055.3	2002.9	1996.7	2011.1	2186.7	2494.5	2345.6	2032.4
40°	2314.2	2316.2	2295.2	2234.4	2180.5	2170.4	2206.5	2374.3	2760.8	2613.1	2250.7
42.5°	2492.5	2496.4	2461.1	2404.9	2365.4	2367.3	2408.4	2594.1	3066.3	2928.3	2501.8
45°	2703.8	2709.6	2670.9	2597.2	2561.2	2633.6	2616.6	2840.6	3401.2	3286.4	2790.3
47.5°	2924.8	2933.7	2904.2	2835.2	2790.3	2889.9	2824.8	3113.9	3761.7	3670.6	3107.0
50°	3045.3	3058.1	3086.8	3081.8	3072.1	3055.4	3057.0	3407.0	4133.4	4070.6	3432.6
52.5°	2980.6	2980.2	3084.9	3212.0	3347.7	3357.8	3339.9	3715.9	4480.8	4461.8	3739.2
55°	2684.4	2704.6	2863.1	3109.3	3479.9	3711.3	3764.0	4069.9	4821.9	4844.0	4050.5
57.5°	2191.3	2208.0	2422.0	2765.1	3301.6	3921.4	4367.2	4584.3	5203.3	5306.4	4464.9
60°	1486.2	1506.4	1733.2	2145.2	2821.7	3804.3	4941.3	5502.2	5660.0	5894.5	5046.3
62.5°	873.4	891.6	1076.5	1353.3	1986.7	3260.5	5193.2	6808.2	6385.3	6781.8	5933.3
65°	601.2	613.6	703.6	842.3	1141.6	2196.0	4880.8	7709.8	7501.3	7881.2	6961.7
67.5°	483.8	482.2	553.6	648.1	735.0	1132.3	3690.7	7607.9	8482.8	8641.3	7495.5
70°	398.5	396.9	445.4	523.7	587.3	637.7	2010.3	6420.1	8282.8	8347.1	7003.9
72.5°	333.4	334.9	365.9	424.1	481.8	480.3	883.4	4516.4	6515.9	6960.9	5583.2
75°	281.4	282.2	302.7	343.8	391.1	386.9	479.1	2446.8	3787.7	4097.4	3094.9
77.5°	239.6	240.3	253.5	276.4	310.1	308.6	349.7	1057.1	1580.0	1560.6	1058.7
80°	213.6	213.6	219.8	224.1	242.7	235.7	259.3	507.8	667.9	616.7	422.5
82.5°	167.5	168.2	206.2	204.7	191.1	182.2	182.2	299.3	353.9	327.2	247.3
85°	94.2	93.8	133.0	160.5	168.2	128.3	127.1	167.5	192.7	169.8	119.8
87.5°	40.3	41.1	61.6	71.3	95.4	79.9	78.7	86.4	98.1	84.9	55.4
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°	1093.9	1093.9	1093.9	1093.9	1093.9	1093.9	1093.9	1093.9	1093.9	1093.9	1093.9
2.5°	1094.3	1084.2	1062.1	1034.6	1009.8	993.5	978.8	957.5	958.6	943.9	933.1
5°	1093.5	1072.6	1021.4	960.6	902.0	859.8	828.0	799.3	792.3	778.8	770.6
7.5°	1094.3	1060.2	974.1	876.8	804.4	750.9	723.7	708.6	705.1	700.5	700.9
10°	1097.0	1049.0	922.2	798.5	722.6	687.3	680.7	685.4	690.8	692.3	692.7
12.5°	1103.2	1038.9	865.2	728.8	671.4	660.5	671.8	687.7	698.1	703.2	702.8
15°	1117.2	1031.1	810.6	674.1	643.1	648.9	669.8	692.3	707.4	714.4	714.8
17.5°	1132.3	1019.9	754.4	632.2	622.2	636.9	662.9	689.2	707.8	715.6	717.1
20°	1152.1	1005.9	695.4	600.8	602.4	619.1	643.5	669.8	690.4	697.0	700.1
22.5°	1178.0	990.8	643.9	575.3	579.9	592.7	611.7	634.6	652.4	655.5	658.2
25°	1212.9	974.5	602.8	552.0	553.9	561.3	574.1	587.7	600.1	596.6	599.3
27.5°	1259.8	960.6	572.2	530.7	527.2	528.7	535.3	539.6	546.2	536.5	537.7
30°	1314.9	945.5	548.5	512.1	502.4	499.7	501.2	503.5	508.6	495.4	493.5
32.5°	1378.8	927.2	526.4	495.8	482.2	476.8	477.6	483.8	503.2	495.0	490.8
35°	1453.3	906.7	503.2	478.0	468.7	460.9	460.1	479.5	537.3	532.2	528.4
37.5°	1540.5	886.2	479.9	457.8	458.6	450.1	447.3	469.4	543.9	524.1	521.4
40°	1651.4	875.3	460.1	436.5	446.2	445.0	439.6	450.8	500.4	464.4	459.7
42.5°	1788.6	876.8	445.4	413.6	431.4	443.9	435.3	435.7	453.5	426.4	422.1
45°	1958.0	895.1	434.9	395.4	414.8	442.7	433.8	427.6	429.1	414.8	412.5
47.5°	2155.7	932.7	427.6	380.3	398.9	438.4	433.4	425.2	421.8	414.0	412.1
50°	2375.5	987.3	422.1	365.9	384.5	431.4	433.8	422.9	419.0	415.9	414.8
52.5°	2591.4	1049.7	414.0	353.5	373.3	422.9	434.9	420.6	416.3	414.0	412.8
55°	2832.1	1127.7	401.6	343.1	364.0	412.1	434.9	417.1	412.5	412.8	412.5
57.5°	3157.3	1253.6	386.9	334.1	352.8	398.9	427.6	413.2	407.4	407.8	408.2
60°	3665.5	1475.8	369.0	325.2	338.8	383.4	417.5	404.7	398.9	400.4	400.8
62.5°	4412.9	1801.8	345.8	312.1	324.1	366.7	403.5	393.8	388.0	391.9	391.9
65°	5189.8	2089.4	317.1	295.4	308.6	348.5	386.1	380.3	374.5	383.4	383.0
67.5°	5398.7	2025.0	288.4	277.2	293.1	328.3	365.2	362.1	359.0	374.5	373.7
70°	4795.9	1625.8	262.0	258.6	276.0	306.6	342.7	342.7	340.7	352.4	349.7
72.5°	3653.9	1152.8	236.8	238.8	256.6	283.0	318.3	321.0	317.9	323.7	321.4
75°	1956.0	659.8	211.7	217.1	232.6	258.9	291.1	293.8	291.9	291.5	292.7
77.5°	650.1	322.5	185.3	193.8	207.4	234.1	262.8	267.1	262.4	261.7	261.3
80°	289.6	202.7	156.2	167.5	179.5	205.8	233.0	236.5	231.4	238.4	229.5
82.5°	186.1	133.3	125.2	137.6	149.2	177.5	203.1	203.9	199.2	231.4	197.3
85°	90.3	82.6	94.2	105.4	115.5	139.6	168.2	168.6	157.0	143.0	138.0
87.5°	45.0	48.1	62.8	72.9	77.9	95.7	122.5	120.2	115.1	104.7	96.5
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)