

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: P300430

Luminaire Tested: **GLNA-AF-03-LED-E1-T4FT-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-03-LED-E1-T4FT-8030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9794.8 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 96
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



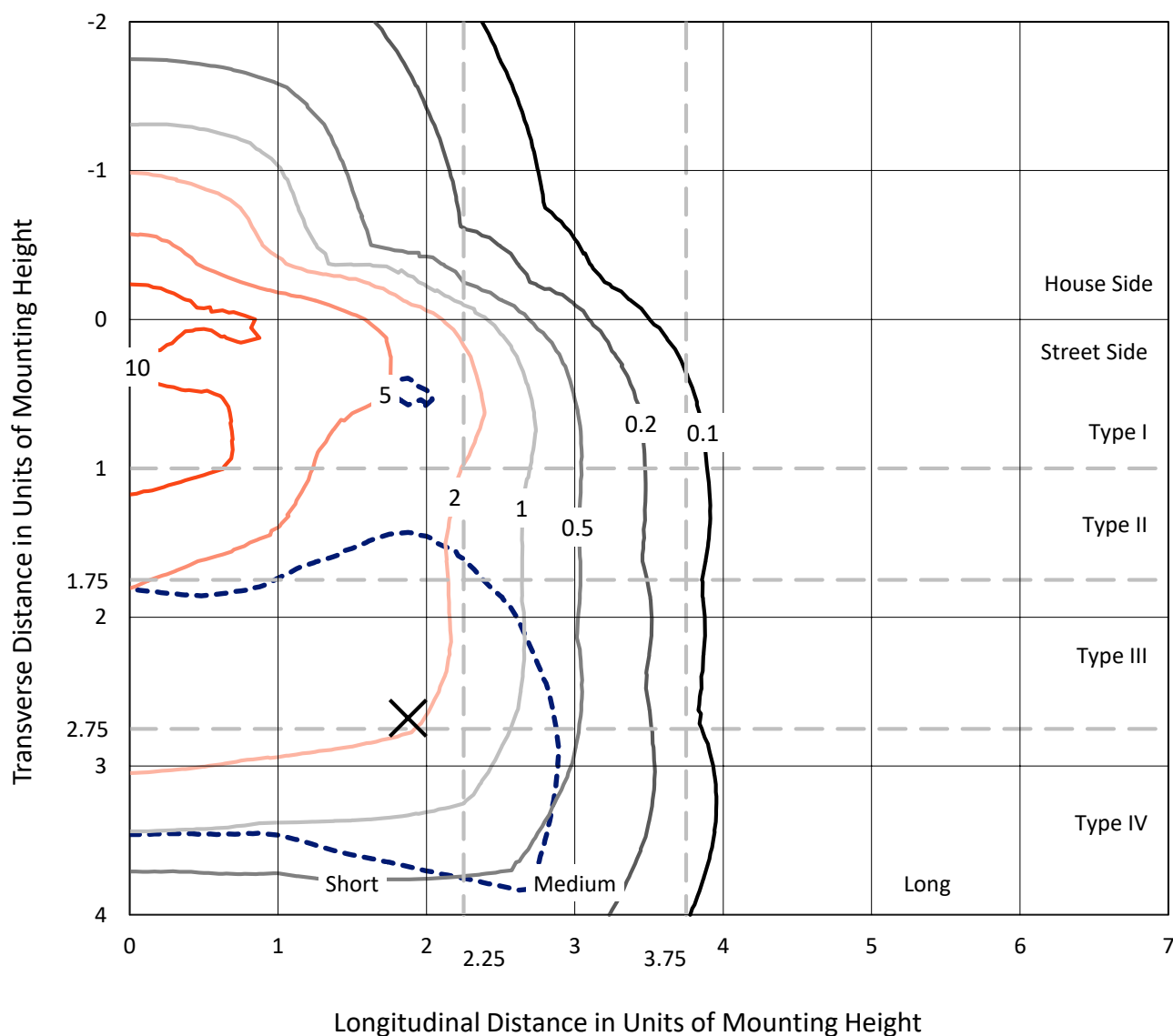
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

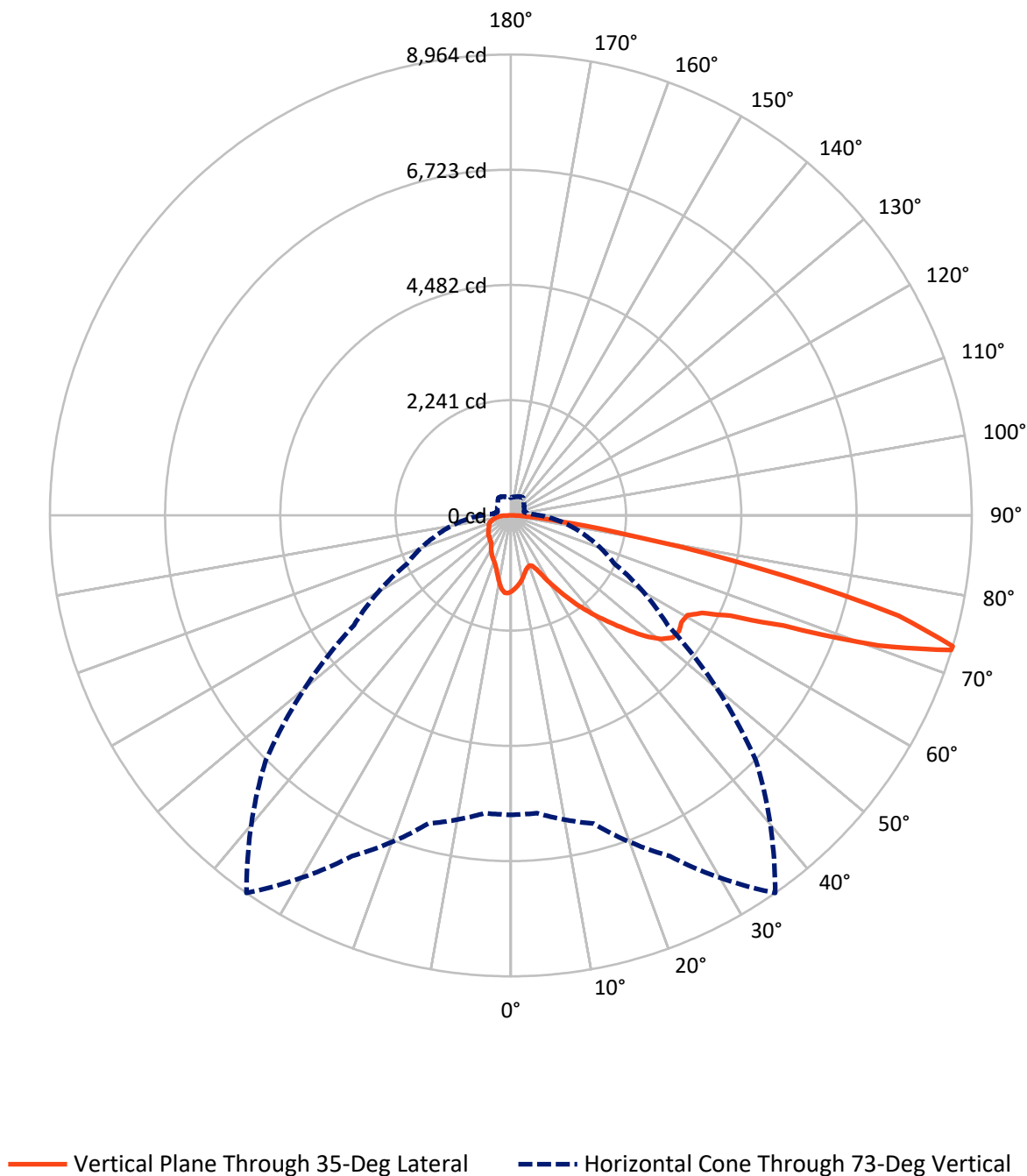


Based on 10 foot mounting height. Maximum calculated value = 14.8 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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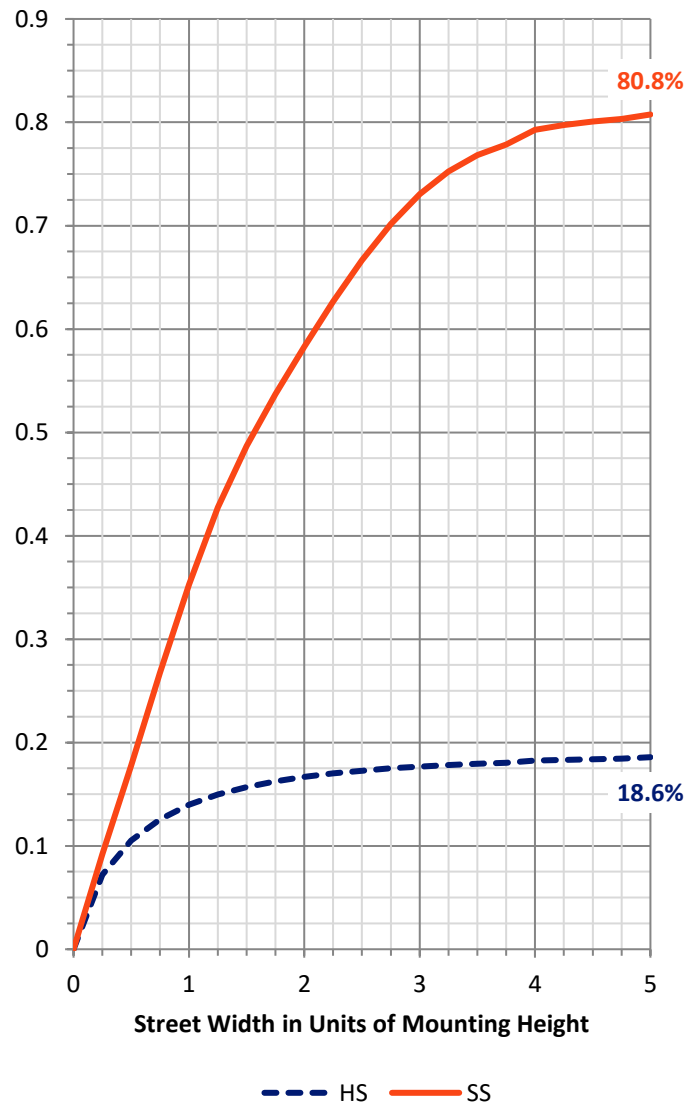
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1868.1	0.0	1868.1
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	7926.7	0.0	7926.7
	% Fixture	80.9	0.0	80.9
Total	Lumens	9794.8	0.0	9794.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.8	1.4
10°-20°	334.0	3.4
20°-30°	540.0	5.5
30°-40°	905.5	9.2
40°-50°	1395.8	14.3
50°-60°	1872.6	19.1
60°-70°	2494.7	25.5
70°-80°	1902.7	19.4
80°-90°	215.7	2.2
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°	9794.8	100.0
0°-180°	9794.8	100.0

Coefficient of Utilization



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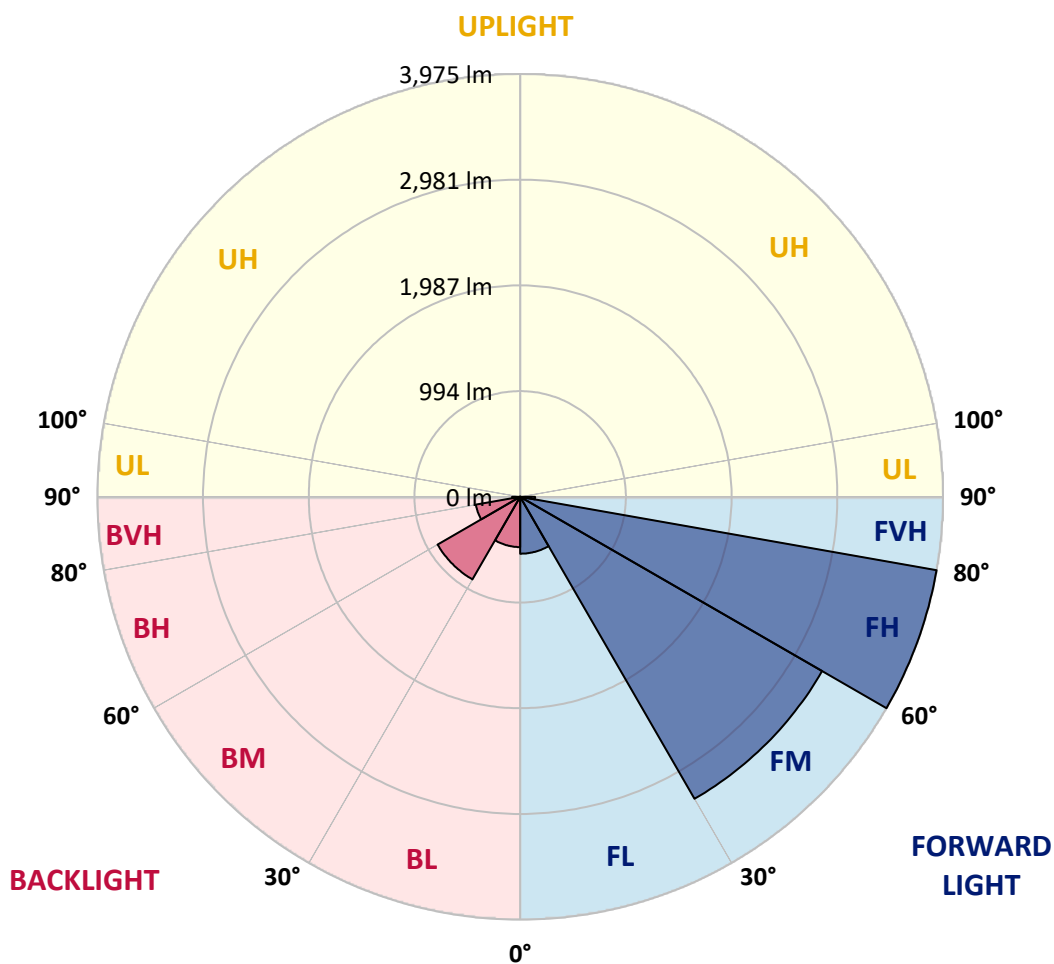
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	535.1	5.5			
FM	(30°-60°)	3277.4	33.5			
FH	(60°-80°)	3974.7	40.6			G2/5000
FVH	(80°-90°)	139.4	1.4			G2/225
BL	(0°-30°)	472.7	4.8	B1/500		
BM	(30°-60°)	896.5	9.2	B1/1000		
BH	(60°-80°)	422.7	4.3	B1/500		G1/500
BVH	(80°-90°)	76.3	0.8			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1478.3	1478.3	1478.3	1478.3	1478.3	1478.3	1478.3	1478.3	1478.3	1478.3	1478.3
2.5°	1420.0	1422.8	1419.5	1423.8	1430.8	1438.4	1443.5	1451.1	1459.5	1471.3	1474.1
5°	1353.2	1357.5	1357.5	1365.0	1378.6	1390.9	1402.1	1414.4	1432.2	1452.5	1460.5
7.5°	1279.9	1282.2	1286.4	1297.7	1317.5	1334.9	1350.9	1370.6	1395.1	1421.9	1436.0
10°	1191.4	1194.7	1201.3	1217.3	1244.1	1268.1	1291.1	1318.4	1349.5	1382.9	1400.7
12.5°	1128.9	1127.9	1130.7	1142.5	1166.0	1195.2	1228.6	1263.4	1301.5	1340.5	1362.2
15°	1107.7	1102.5	1091.7	1088.9	1101.6	1130.7	1169.3	1212.1	1257.7	1304.8	1331.6
17.5°	1120.9	1111.9	1082.3	1060.7	1058.8	1080.9	1121.8	1169.8	1222.5	1279.9	1313.2
20°	1203.7	1182.5	1109.6	1059.3	1041.8	1052.7	1088.4	1139.2	1201.3	1277.5	1320.3
22.5°	1401.7	1370.6	1215.9	1122.3	1063.5	1050.3	1077.1	1131.2	1203.7	1306.7	1361.2
25°	1690.0	1645.8	1398.4	1279.4	1158.0	1087.9	1094.1	1149.6	1237.0	1374.4	1440.2
27.5°	1917.7	1889.0	1636.9	1500.9	1330.2	1189.5	1149.1	1195.7	1305.3	1485.4	1552.7
30°	2053.1	2035.7	1891.8	1752.1	1549.8	1351.3	1254.5	1282.2	1412.0	1639.2	1694.7
32.5°	2210.2	2199.9	2129.3	2000.9	1786.9	1563.9	1421.4	1411.6	1555.0	1824.1	1849.5
35°	2373.0	2369.7	2328.3	2236.1	2041.4	1844.3	1643.0	1576.2	1710.7	2016.0	2000.0
37.5°	2524.4	2518.8	2494.8	2441.2	2307.6	2145.3	1868.7	1745.0	1878.6	2199.4	2128.4
40°	2803.3	2759.1	2676.8	2636.4	2576.6	2398.8	2048.0	1902.6	2052.7	2374.4	2239.4
42.5°	3143.4	3071.5	2918.1	2862.6	2854.1	2598.7	2170.2	2055.5	2228.1	2547.9	2348.5
45°	3411.1	3343.3	3211.2	3141.1	3172.1	2779.8	2293.0	2218.7	2408.7	2730.0	2460.9
47.5°	3696.6	3590.3	3415.3	3436.5	3504.2	2951.0	2418.1	2394.1	2606.7	2933.6	2600.6
50°	3706.9	3625.5	3548.9	3675.4	3780.8	3108.6	2574.8	2578.0	2849.0	3190.0	2786.4
52.5°	3492.0	3474.6	3596.4	3795.3	3947.3	3233.3	2753.0	2768.1	3158.9	3484.4	2990.6
55°	3416.7	3396.9	3537.6	3753.5	3969.8	3336.3	2946.3	2973.6	3533.8	3794.9	3189.5
57.5°	3600.1	3556.4	3565.8	3733.7	3914.8	3449.2	3157.1	3212.1	3941.2	4066.3	3317.5
60°	4112.8	4019.2	3841.4	3837.2	3944.4	3618.5	3400.7	3468.0	4364.5	4196.1	3267.6
62.5°	4832.0	4738.4	4405.4	4188.6	4172.6	3897.9	3699.9	3717.7	4609.1	4020.2	2963.3
65°	5610.5	5526.7	5154.7	4848.5	4700.8	4360.7	4047.5	3829.2	4529.1	3536.2	2430.8
67.5°	6555.4	6465.6	6145.7	5863.0	5721.0	5107.6	4291.6	3722.4	4021.6	2739.4	1747.4
70°	7216.3	7124.6	6998.5	7227.6	7575.2	6185.2	4323.1	3288.3	3003.7	1820.8	1051.7
72.5°	6354.1	6311.3	6541.3	7506.0	8953.8	6839.0	3907.8	2394.1	1744.6	966.6	608.6
73°	5821.7	5812.2	6204.5	7310.8	8963.7	6738.4	3725.7	2225.3	1496.2	855.1	556.4
75°	2628.8	2704.6	3564.4	5584.1	7787.8	5552.6	2622.3	1276.6	845.2	590.8	420.0
77.5°	631.7	658.0	1115.2	2651.9	4918.1	3309.0	1188.1	631.2	540.4	417.2	306.7
80°	269.0	278.0	429.4	979.8	2315.6	1332.5	547.5	422.9	373.9	291.2	215.0
82.5°	149.6	159.0	243.6	444.5	934.6	454.4	334.0	294.4	246.0	175.4	139.7
85°	84.7	89.8	142.5	248.4	396.0	182.5	199.9	195.7	138.8	90.3	68.7
87.5°	40.0	43.3	68.7	115.2	155.2	71.5	101.6	111.9	87.0	55.0	35.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1478.3	1478.3	1478.3	1478.3	1478.3	1478.3	1478.3	1478.3	1478.3	1478.3
2.5°	1477.4	1485.9	1495.7	1500.9	1505.6	1511.3	1516.9	1516.9	1517.9	1518.3
5°	1467.1	1484.5	1500.0	1506.6	1508.0	1508.0	1506.6	1499.0	1492.5	1495.3
7.5°	1445.4	1470.8	1484.0	1481.6	1463.8	1443.1	1425.7	1404.5	1393.7	1391.8
10°	1414.4	1443.5	1445.9	1422.4	1378.2	1333.9	1297.3	1261.5	1244.6	1240.3
12.5°	1380.0	1406.8	1391.8	1343.3	1272.3	1207.9	1161.3	1125.1	1109.1	1104.9
15°	1352.3	1370.6	1332.5	1256.3	1167.0	1098.8	1060.2	1033.4	1022.1	1018.8
17.5°	1337.7	1341.5	1271.9	1168.8	1073.8	1016.9	992.9	980.2	976.0	973.6
20°	1344.8	1318.4	1214.0	1087.5	997.6	957.7	952.0	948.7	947.8	946.4
22.5°	1380.0	1311.4	1160.8	1010.3	930.8	913.4	918.1	917.7	916.7	915.8
25°	1443.1	1317.5	1109.1	937.0	874.9	871.1	879.6	879.6	875.8	875.8
27.5°	1526.3	1330.2	1051.3	867.3	824.1	824.5	831.1	829.2	825.0	822.2
30°	1627.9	1338.2	983.5	804.8	776.6	774.7	776.6	768.6	755.9	754.9
32.5°	1731.9	1328.3	905.0	749.3	726.2	722.0	720.6	709.3	694.7	690.5
35°	1825.9	1292.1	825.0	705.1	678.3	668.9	675.4	671.7	658.5	655.2
37.5°	1894.6	1224.8	753.0	666.0	643.9	641.6	645.8	647.2	631.7	628.4
40°	1940.7	1133.6	691.4	633.1	637.3	628.4	614.3	604.4	599.7	598.3
42.5°	1977.9	1038.6	639.7	617.6	638.7	612.9	582.3	566.3	574.8	578.5
45°	2020.7	945.9	596.4	598.3	631.7	595.0	560.2	544.7	548.0	548.9
47.5°	2079.5	833.0	549.9	567.3	608.2	582.8	546.6	524.5	508.9	501.9
50°	2160.8	699.4	501.4	532.4	585.1	573.8	525.4	501.9	473.2	466.6
52.5°	2217.3	574.8	461.4	503.3	564.4	556.0	508.5	477.9	447.8	442.1
55°	2186.7	477.4	426.6	470.8	537.2	533.9	494.3	453.4	429.9	425.2
57.5°	2033.8	415.8	399.8	440.3	503.8	515.0	475.5	432.7	415.8	412.5
60°	1742.2	377.2	382.9	419.6	476.5	496.2	456.7	421.4	410.2	407.8
62.5°	1351.8	351.4	370.2	404.5	455.3	483.1	446.4	420.0	415.8	413.0
65°	968.5	330.7	356.5	389.5	436.0	470.8	442.6	418.2	419.1	416.7
67.5°	658.0	312.3	340.1	372.5	417.2	460.0	437.4	411.6	423.3	420.5
70°	460.5	294.4	320.8	350.9	393.7	445.0	428.0	401.7	400.7	389.5
72.5°	359.4	270.9	294.4	320.8	363.6	423.8	409.2	379.6	364.1	352.3
73°	342.9	265.3	287.9	314.2	357.0	418.6	404.0	373.5	356.1	345.2
75°	283.6	240.8	261.5	285.0	328.8	394.2	378.6	345.7	323.6	317.0
77.5°	223.0	206.0	225.8	246.9	289.7	358.4	341.0	309.5	297.3	291.6
80°	165.1	170.7	188.1	207.0	251.2	320.3	304.8	273.3	327.8	314.2
82.5°	116.2	129.3	145.3	162.3	210.7	283.2	264.3	231.9	239.9	199.4
85°	68.7	84.7	99.7	114.3	151.9	234.7	218.2	184.9	151.5	144.4
87.5°	40.0	47.0	51.3	66.3	104.4	176.9	153.8	136.9	78.6	53.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)