Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P529046

Luminaire Tested: **GALN-SA4A-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Report Generated By 670246001

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P529046
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab:	INNOVATION CENTER
Issue Date:	5/27/2021
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SA4A-830-U-T2-GRSWH
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12058 lumens
Efficiency:	N/A
Efficacy:	99.7 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

Input Watts (W):	121
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:	24 FT

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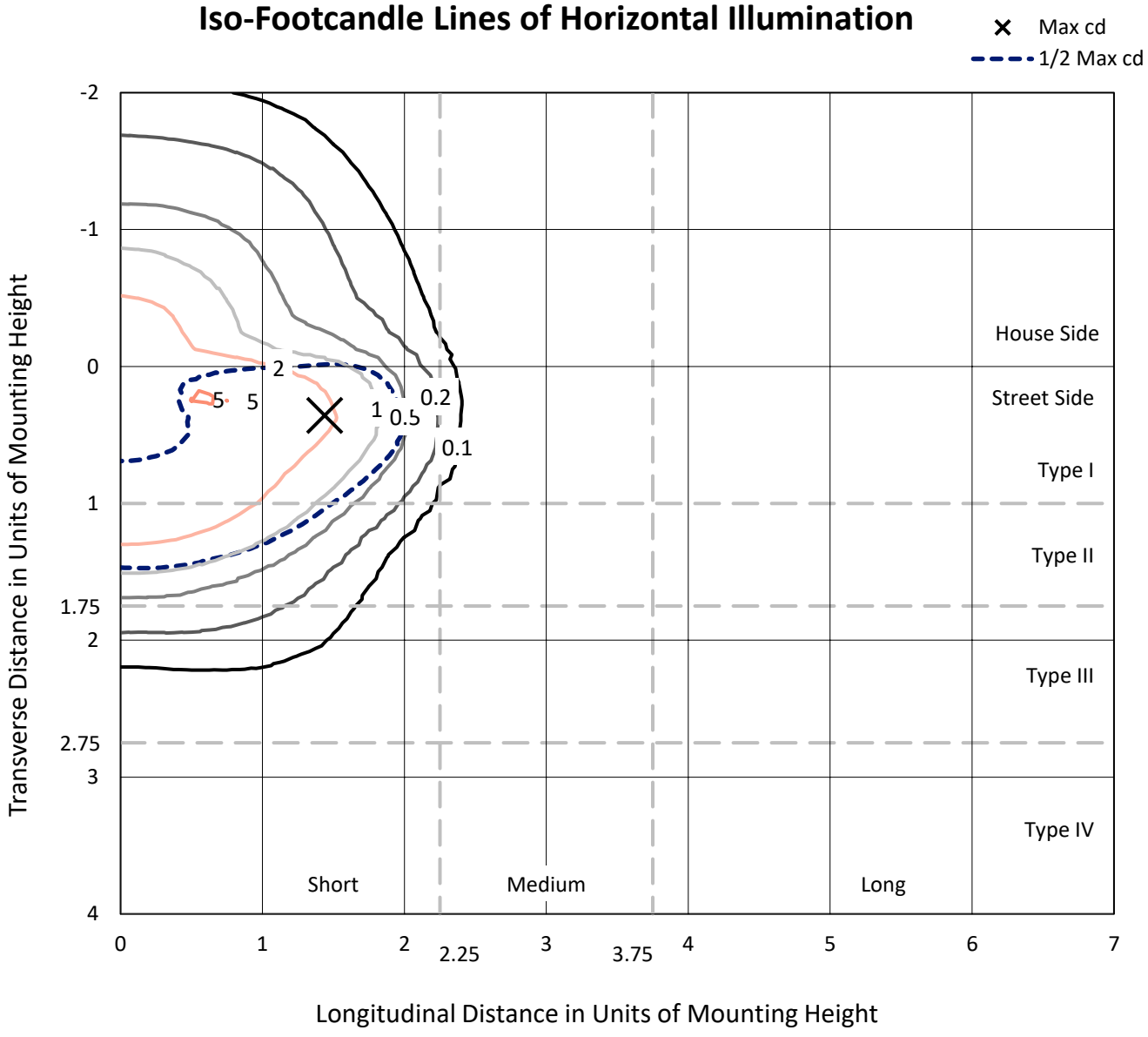
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type II - Short - N/A

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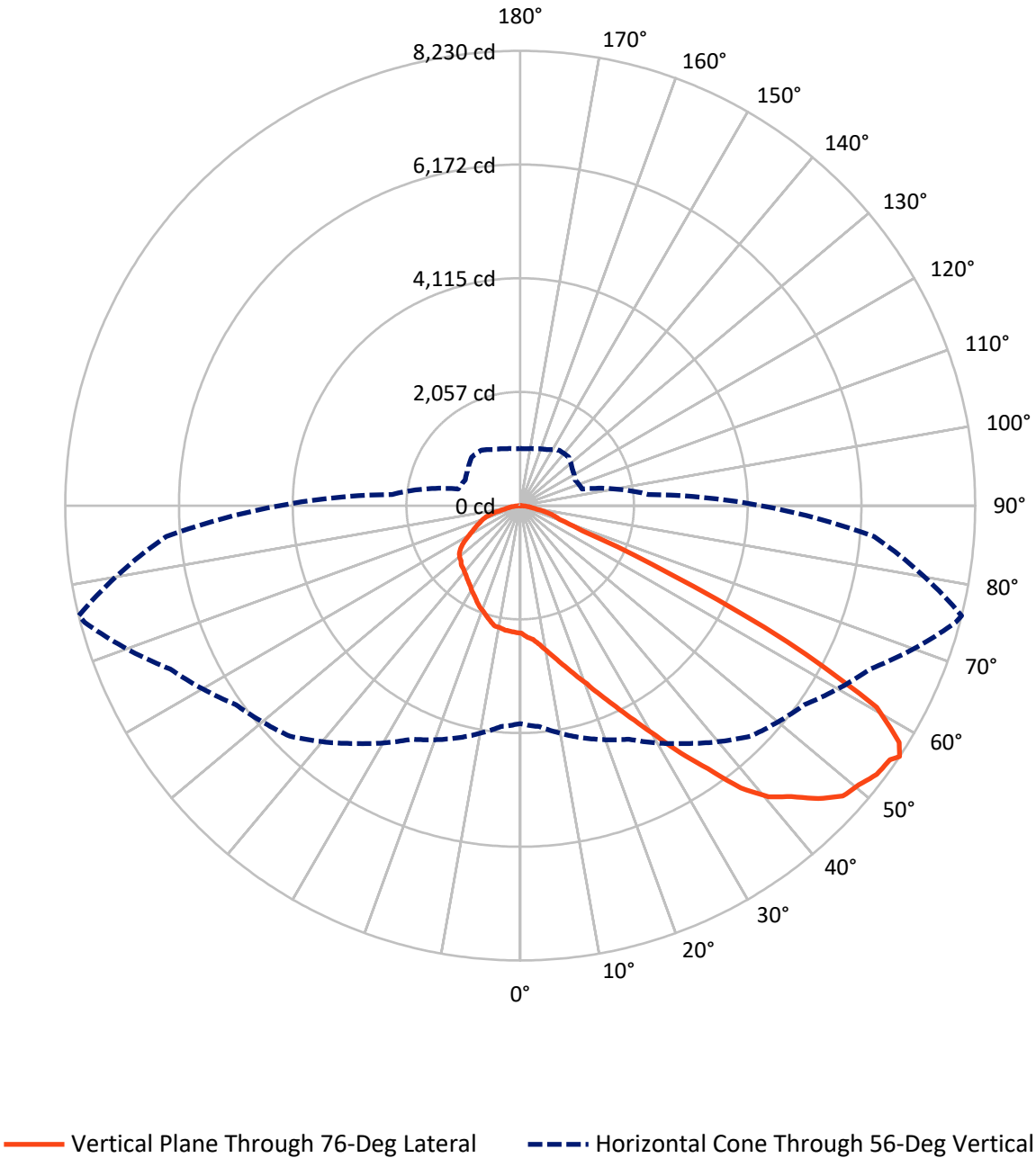
Luminous Intensity Polar Plot



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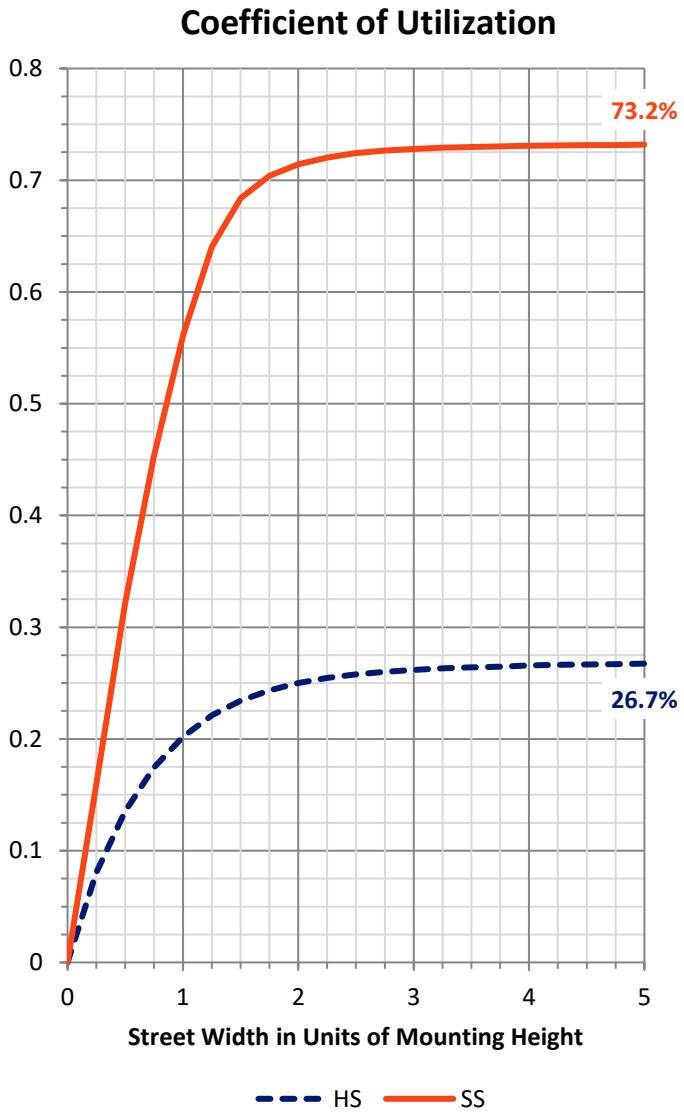
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3242.0	0.0	3242.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	8816.0	0.0	8816.0
	% Fixture	73.1	0.0	73.1
Total	Lumens	12058.0	0.0	12058.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.8	1.9
10°-20°	718.7	6.0
20°-30°	1257.0	10.4
30°-40°	1968.0	16.3
40°-50°	2862.9	23.7
50°-60°	3146.6	26.1
60°-70°	1404.5	11.6
70°-80°	405.7	3.4
80°-90°	65.8	0.5
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°	12058.0	100.0
0°-180°	12058.0	100.0



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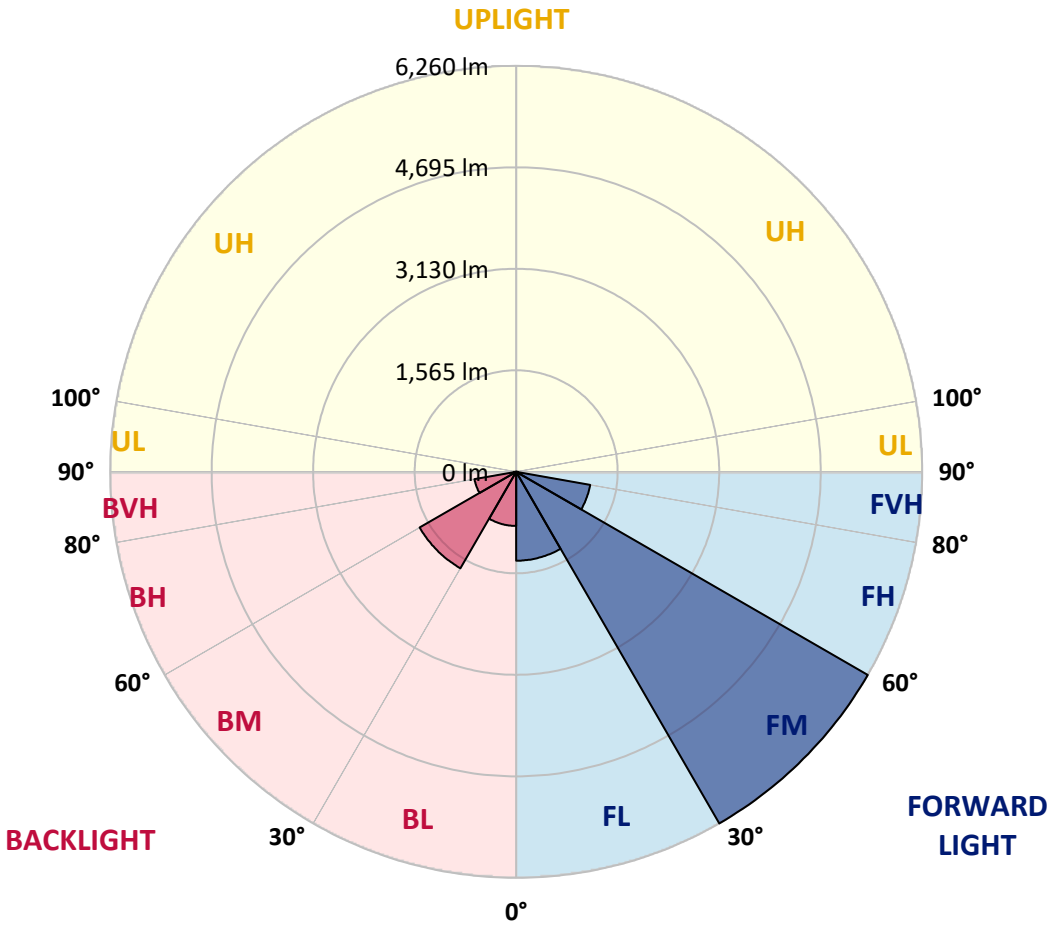
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1370.3	11.4			
FM	(30°-60°)	6259.5	51.9			
FH	(60°-80°)	1157.9	9.6			G1/1800
FVH	(80°-90°)	28.3	0.2			G1/100
BL	(0°-30°)	834.2	6.9	B2/1000		
BM	(30°-60°)	1718.0	14.2	B2/2500		
BH	(60°-80°)	652.3	5.4	B2/1000		G2/1000
BVH	(80°-90°)	37.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	*2307.1*	2307.1
2.5°	2541.6	2501.0	2497.8	2486.9	2493.2	2465.0	2435.3	2396.2	2355.6	*2380.6*	2321.2
5°	2719.8	2665.1	2687.0	2649.5	2654.2	2616.6	2555.7	2510.3	2460.3	*2430.6*	2388.4
7.5°	2782.3	2787.0	2802.6	2796.4	2765.1	2765.1	2724.5	2644.8	2557.2	*2540.0*	2469.7
10°	2866.7	2868.3	2851.1	2855.8	2899.6	2879.2	2843.3	2808.9	2696.4	*2676.0*	2551.0
12.5°	2896.4	2868.3	2896.4	2921.4	2973.0	3001.2	2993.3	2968.3	2848.0	*2833.9*	2651.0
15°	2901.1	2883.9	2907.4	2963.6	3009.0	3127.8	3187.2	3170.0	3010.5	*3012.1*	2763.6
17.5°	2879.2	2902.7	2912.1	2960.5	3065.2	3176.2	3348.2	3371.6	3240.3	*3220.0*	2905.8
20°	2908.9	2891.7	2904.2	2948.0	3087.1	3260.6	3485.7	3640.5	3456.0	*3442.0*	3052.7
22.5°	3023.0	2999.6	2996.5	3024.6	3124.6	3304.4	3631.1	3909.3	3718.6	*3726.4*	3235.6
25°	3112.1	3124.6	3113.7	3112.1	3174.7	3370.1	3823.4	4229.8	4075.0	*4029.7*	3451.3
27.5°	3265.3	3295.0	3273.1	3302.8	3288.8	3468.5	3960.9	4584.6	4459.5	*4398.6*	3646.7
30°	3477.9	3493.5	3473.2	3473.2	3431.0	3606.1	4086.0	4955.0	4903.5	*4820.6*	3876.5
32.5°	3757.7	3781.2	3740.5	3717.1	3710.8	3810.9	4311.0	5320.8	5408.3	*5338.0*	4181.3
35°	4128.2	4114.1	4065.6	4043.8	3959.3	4125.0	4645.5	5741.3	5971.1	*5846.0*	4550.2
37.5°	4454.9	4433.0	4429.8	4307.9	4328.2	4464.2	4930.0	6060.2	6516.6	*6480.6*	4939.4
40°	4759.7	4780.0	4812.8	4744.0	4712.8	4862.8	5261.4	6304.0	6940.2	*6926.1*	5239.5
42.5°	5086.3	5067.6	5125.4	5067.6	5020.7	5233.3	5620.9	6472.8	7312.2	*7196.5*	5553.7
45°	5560.0	5500.6	5520.9	5525.6	5491.2	5569.3	5769.4	6594.7	7573.2	*7560.7*	5783.5
47.5°	5955.4	5957.0	5922.6	5896.0	5791.3	5869.5	5935.1	6671.3	7873.4	*7853.0*	5872.6
50°	6102.4	6082.0	6182.1	6239.9	6246.2	6086.7	6064.8	6713.5	8031.2	*7942.1*	5961.7
52.5°	5574.0	5592.8	5750.7	6094.5	6293.1	6310.3	6216.5	6801.1	8095.3	*8076.6*	6033.6
55°	4486.1	4576.8	4836.2	5233.3	5703.8	6221.2	6380.6	6891.7	8129.7	*8114.1*	6352.5
56°	*3943.7*	*4014.1*	*4351.7*	*4662.7*	*5253.6*	*5897.6*	*6277.4*	*6988.6*	*8156.3*	*8229.7*	*6427.5*
57.5°	3174.7	3255.9	3498.2	3851.5	4548.6	5281.7	5992.9	6869.8	8053.1	*8081.3*	6482.2
60°	1985.1	1993.0	2283.7	2516.6	3007.4	3723.3	4573.6	5977.3	7452.9	*7412.2*	5822.6
62.5°	1302.1	1303.6	1567.8	1758.5	1982.0	2146.1	2691.7	3964.0	5499.0	*5427.1*	4145.4
65°	914.4	934.7	1139.5	1394.3	1485.0	1399.0	1381.8	2089.9	3071.5	*2968.3*	2227.4
67.5°	669.0	670.6	851.9	1125.4	1256.7	1064.5	864.4	1020.7	1216.1	*1213.0*	1031.6
70°	442.4	461.1	600.2	841.0	991.0	855.0	706.5	730.0	773.7	*773.7*	767.5
72.5°	257.9	275.1	367.3	533.0	556.5	534.6	559.6	625.2	653.4	*651.8*	644.0
75°	146.9	154.7	175.1	222.0	276.7	326.7	411.1	473.6	501.8	*519.0*	498.6
77.5°	86.0	90.7	103.2	126.6	143.8	176.6	223.5	267.3	304.8	*300.1*	303.2
80°	45.3	45.3	57.8	75.0	100.0	125.0	148.5	173.5	193.8	*198.5*	203.2
82.5°	26.6	28.1	37.5	54.7	71.9	89.1	114.1	131.3	150.1	*151.6*	154.7
85°	14.1	15.6	23.4	36.0	48.5	54.7	56.3	53.1	57.8	*54.7*	62.5
87.5°	4.7	4.7	7.8	6.3	6.3	7.8	9.4	9.4	12.5	*12.5*	12.5
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°	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1
2.5°	2319.6	2319.6	2293.1	2243.1	2235.2	2214.9	2196.2	2194.6	2180.5	2168.0	2161.8
5°	2363.4	2315.0	2275.9	2230.6	2177.4	2152.4	2124.3	2093.0	2080.5	2093.0	2091.4
7.5°	2413.4	2372.8	2255.6	2171.2	2110.2	2085.2	2053.9	2021.1	2024.2	2024.2	2002.3
10°	2461.9	2407.2	2219.6	2111.8	2022.7	2003.9	1986.7	1999.2	2014.8	2018.0	2003.9
12.5°	2543.2	2419.7	2202.4	2052.4	1996.1	1955.4	1966.4	2000.8	2033.6	2024.2	2035.2
15°	2604.1	2430.6	2124.3	1991.4	1921.1	1939.8	1978.9	2002.3	2057.0	2050.8	2061.7
17.5°	2663.5	2436.9	2047.7	1910.1	1880.4	1932.0	1961.7	2028.9	2046.1	2083.6	2097.7
20°	2785.5	2449.4	1969.5	1860.1	1850.7	1910.1	1961.7	1993.0	2030.5	2063.3	2063.3
22.5°	2848.0	2443.1	1917.9	1794.4	1824.1	1861.7	1908.6	1961.7	1961.7	1993.0	1994.5
25°	2926.1	2418.1	1836.6	1763.2	1785.1	1821.0	1874.2	1855.4	1875.7	1875.7	1900.7
27.5°	3015.2	2365.0	1766.3	1706.9	1750.7	1789.8	1797.6	1785.1	1761.6	1758.5	1749.1
30°	3087.1	2299.3	1714.7	1688.2	1724.1	1746.0	1721.0	1694.4	1653.8	1650.6	1628.8
32.5°	3185.6	2218.0	1650.6	1641.3	1681.9	1683.5	1675.6	1635.0	1575.6	1550.6	1525.6
35°	3351.3	2171.2	1602.2	1616.3	1628.8	1624.1	1610.0	1566.2	1506.8	1495.9	1486.5
37.5°	3473.2	2136.8	1552.2	1569.4	1580.3	1586.6	1544.3	1495.9	1497.5	1475.6	1469.3
40°	3610.8	2114.9	1511.5	1519.3	1520.9	1541.2	1489.6	1466.2	1477.1	1463.1	1472.4
42.5°	3787.4	2121.1	1469.3	1463.1	1492.8	1485.0	1459.9	1428.7	1434.9	1392.7	1399.0
45°	3881.2	2163.3	1444.3	1416.2	1449.0	1447.4	1414.6	1384.9	1347.4	1266.1	1269.2
47.5°	3943.7	2174.3	1384.9	1366.2	1400.5	1420.9	1383.3	1314.6	1261.4	1203.6	1189.5
50°	4007.8	2194.6	1356.8	1317.7	1331.8	1380.2	1333.3	1267.7	1216.1	1164.5	1172.3
52.5°	4064.1	2233.7	1302.1	1244.2	1269.2	1322.4	1297.4	1217.7	1161.4	1119.2	1106.7
55°	4314.2	2321.2	1209.8	1134.8	1194.2	1261.4	1247.4	1150.4	1089.5	1067.6	1064.5
56°	*4353.2*	*2324.3*	*1161.4*	*1097.3*	*1152.0*	*1241.1*	*1223.9*	*1120.7*	*1066.0*	*1031.6*	*1033.2*
57.5°	4359.5	2286.8	1092.6	1062.9	1109.8	1211.4	1189.5	1097.3	1022.3	991.0	981.6
60°	3835.9	1785.1	1006.6	987.9	1042.6	1120.7	1112.9	1033.2	948.8	912.9	930.0
62.5°	2615.1	1308.3	939.4	936.3	964.4	1041.0	1020.7	948.8	878.5	855.0	844.1
65°	1522.5	992.6	873.8	861.3	884.7	925.4	939.4	864.4	790.9	775.3	770.6
67.5°	898.8	820.6	789.4	769.0	761.2	786.2	797.2	753.4	680.0	658.1	676.8
70°	751.9	730.0	731.5	697.1	678.4	661.2	651.8	612.7	551.8	523.6	515.8
72.5°	648.7	639.3	633.1	601.8	584.6	545.5	504.9	465.8	420.5	397.0	398.6
75°	495.5	492.4	495.5	479.9	450.2	418.9	381.4	331.4	297.0	267.3	273.5
77.5°	295.4	304.8	309.5	303.2	290.7	262.6	239.2	206.3	173.5	150.1	146.9
80°	203.2	211.0	218.8	211.0	198.5	178.2	153.2	128.2	104.7	92.2	89.1
82.5°	154.7	162.6	167.3	159.4	143.8	121.9	104.7	87.5	68.8	56.3	53.1
85°	56.3	64.1	62.5	75.0	81.3	78.2	67.2	51.6	39.1	28.1	26.6
87.5°	15.6	14.1	15.6	15.6	15.6	14.1	12.5	12.5	12.5	7.8	6.3
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)