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: P452475

Luminaire Tested: **GALN-SA3B-830-U-T3R-HSS**

Issue Date: 1/4/2021

Report Generated By 670248863

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P452475
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab:	INNOVATION CENTER
Issue Date:	1/4/2021
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SA3B-830-U-T3R-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10568 lumens
Efficiency:	N/A
Efficacy:	87.3 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - 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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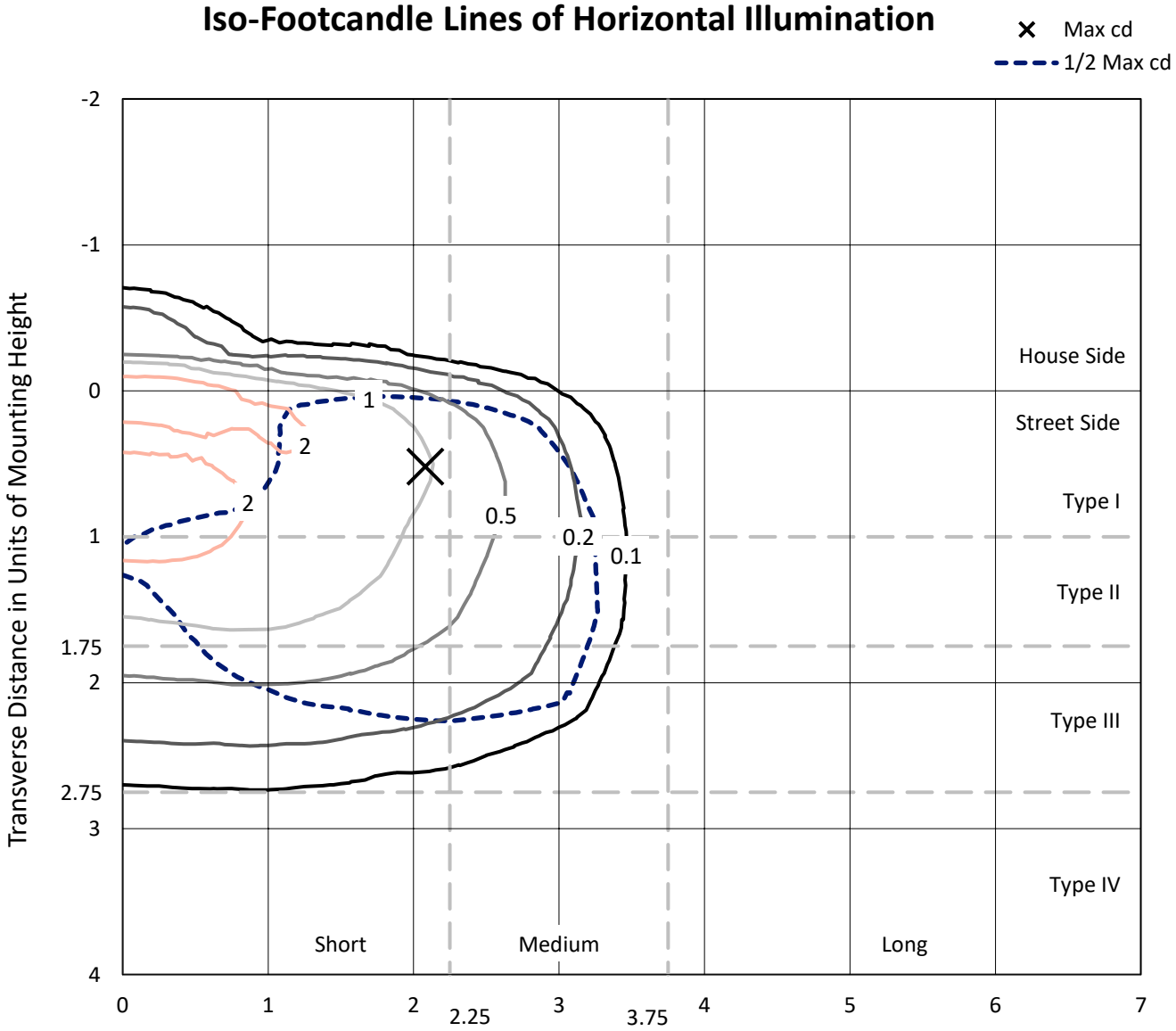
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type III - Short - N/A

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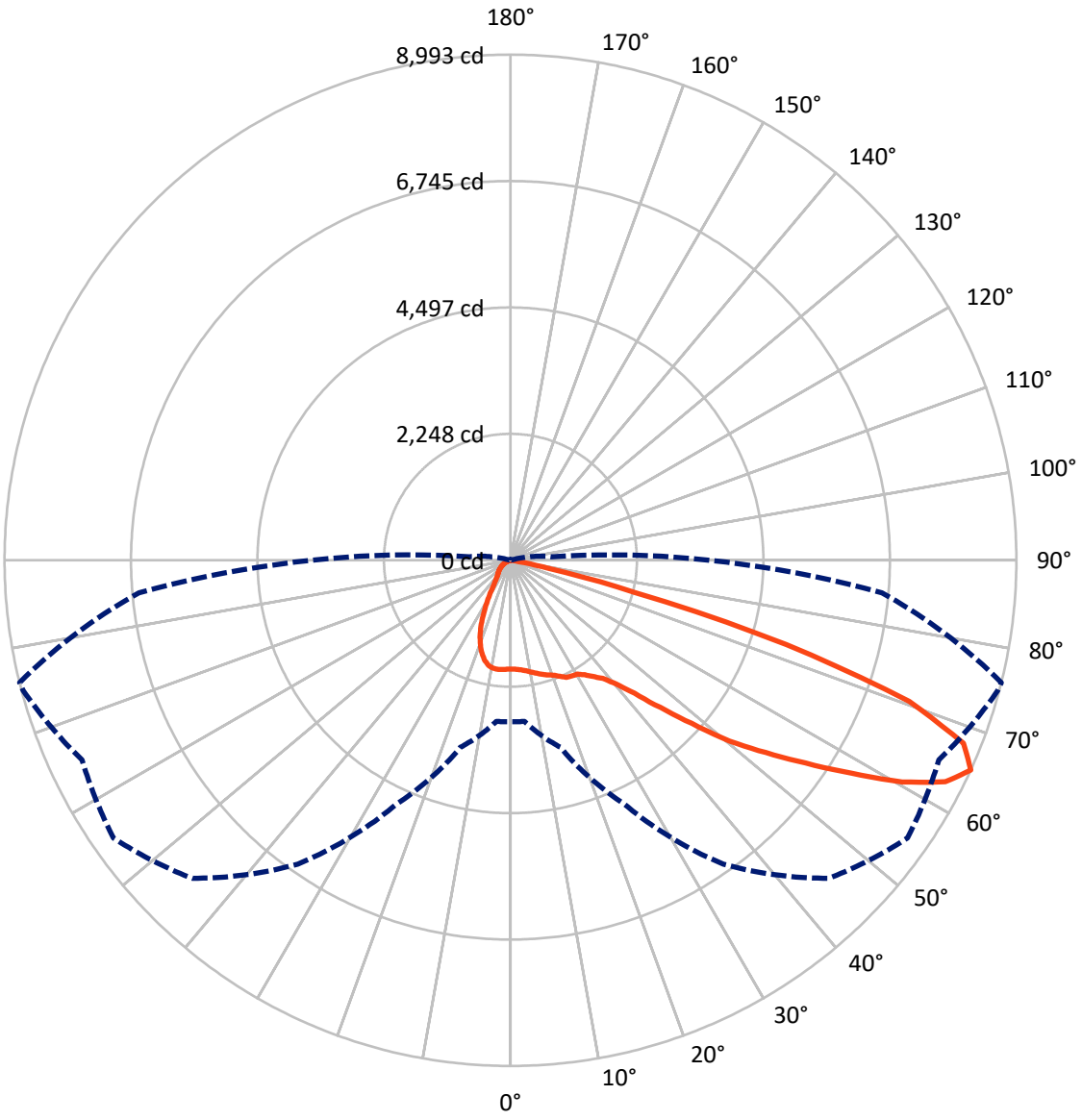
Luminous Intensity Polar Plot



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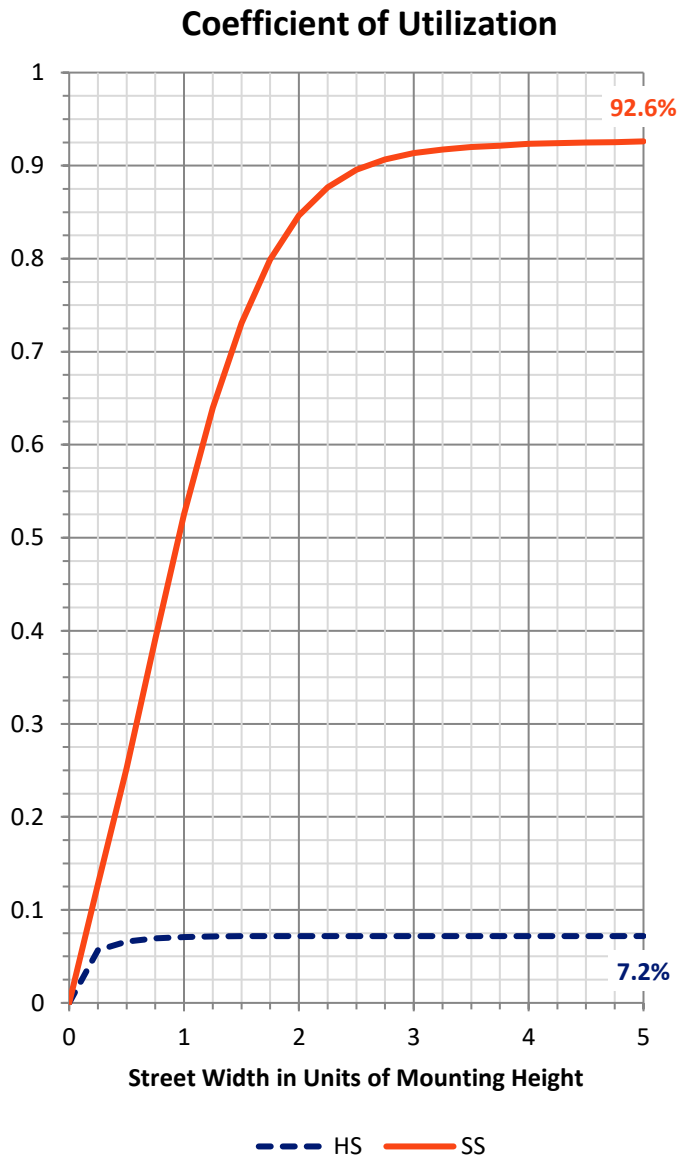
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	763.2	0.0	763.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	9804.8	0.0	9804.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	10568.0	0.0	10568.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	1.5
10°-20°	354.6	3.4
20°-30°	571.4	5.4
30°-40°	993.5	9.4
40°-50°	1641.7	15.5
50°-60°	2536.1	24.0
60°-70°	3096.9	29.3
70°-80°	1175.4	11.1
80°-90°	39.2	0.4
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°	10568.0	100.0
0°-180°	10568.0	100.0



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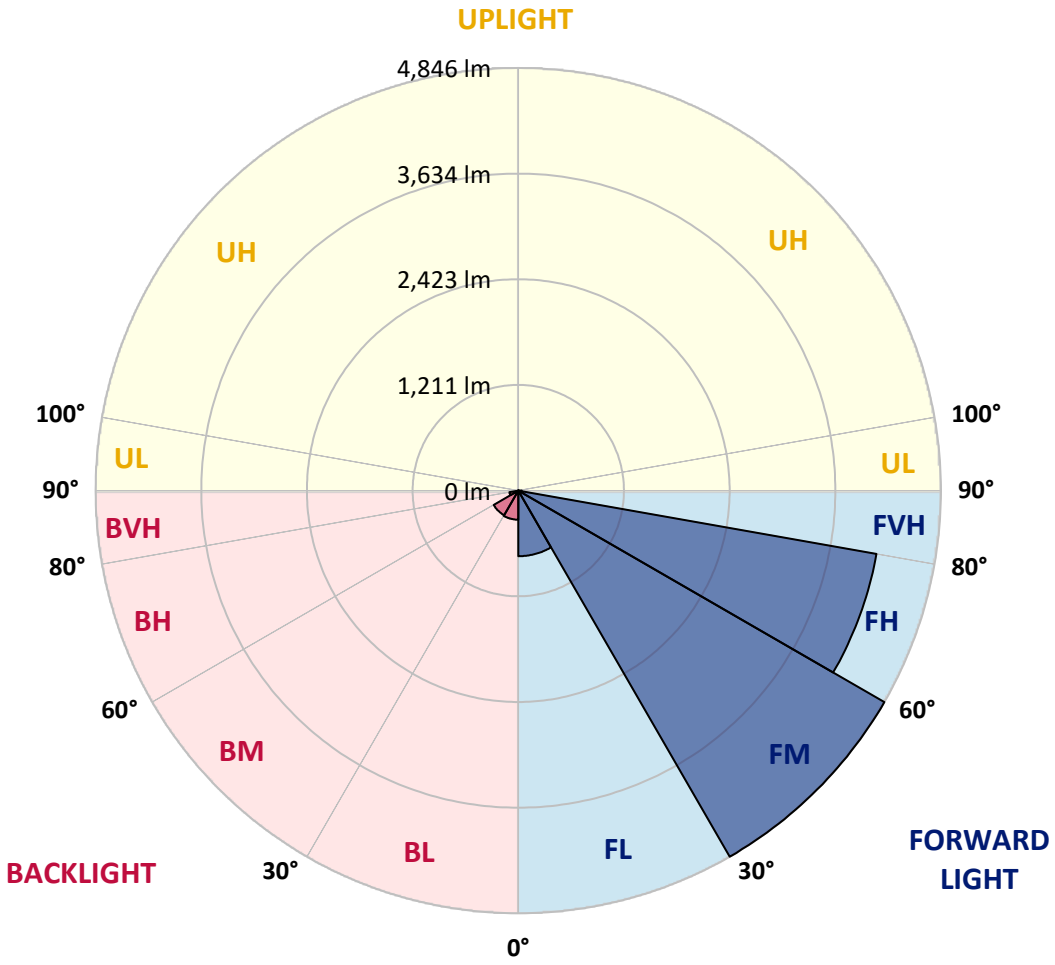
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	751.8	7.1			
FM	(30°-60°)	4845.6	45.9			
FH	(60°-80°)	4168.7	39.4			G2/5000
FVH	(80°-90°)	38.7	0.4			G1/100
BL	(0°-30°)	333.4	3.2	B1/500		
BM	(30°-60°)	325.7	3.1	B1/1000		
BH	(60°-80°)	103.6	1.0	B0/110		G0/110
BVH	(80°-90°)	0.5	0.0			G0/10
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°	76°	85°
0°	1933.2	1933.2	1933.2	1933.2	1933.2	1933.2	1933.2	1933.2	1933.2	*1933.2*	1933.2
2.5°	1847.4	1848.2	1852.6	1863.8	1881.0	1895.2	1907.1	1926.5	1939.9	*1941.4*	1945.9
5°	1719.8	1710.9	1719.8	1748.9	1775.0	1814.6	1863.1	1911.6	1954.9	*1957.8*	1978.7
7.5°	1576.6	1584.0	1598.2	1628.1	1677.3	1737.7	1807.9	1894.4	1976.5	*1984.0*	2025.0
10°	1431.1	1447.5	1470.6	1516.1	1584.8	1663.1	1758.6	1882.5	2010.8	*2021.3*	2092.2
12.5°	1296.8	1304.2	1332.6	1393.8	1478.8	1589.3	1721.3	1875.8	2048.9	*2061.6*	2163.8
15°	1193.8	1203.5	1228.1	1283.3	1378.1	1519.9	1690.7	1873.5	2086.2	*2104.1*	2235.4
17.5°	1174.4	1180.4	1190.8	1228.1	1311.0	1464.7	1663.1	1872.8	2122.0	*2143.6*	2301.8
20°	1254.2	1249.0	1238.6	1234.8	1280.4	1422.1	1643.0	1878.8	2156.3	*2180.9*	2371.9
22.5°	1454.2	1460.9	1399.7	1327.4	1312.4	1415.4	1640.0	1907.1	2210.8	*2239.9*	2450.3
25°	1878.8	1827.3	1731.8	1558.7	1428.1	1456.4	1673.6	1974.3	2274.2	*2306.3*	2521.2
27.5°	2348.1	2332.4	2183.9	1898.9	1655.7	1543.0	1733.3	2025.7	2295.1	*2327.9*	2561.5
30°	2809.2	2827.8	2657.7	2342.9	1986.2	1703.4	1789.2	2045.1	2313.8	*2348.1*	2612.9
32.5°	3236.7	3259.1	3109.9	2798.0	2375.7	1981.0	1885.5	2120.5	2392.1	*2427.2*	2698.8
35°	3573.2	3576.2	3463.5	3215.1	2801.0	2318.2	2093.6	2252.6	2498.0	*2539.1*	2789.8
37.5°	3882.1	3877.6	3745.6	3531.4	3155.4	2653.2	2355.5	2404.8	2618.9	*2661.4*	2921.1
40°	4111.2	4114.2	4071.6	3870.2	3485.9	2962.9	2563.0	2547.3	2821.9	*2888.3*	3112.1
42.5°	4264.1	4291.7	4312.6	4210.4	3901.5	3344.2	2881.6	2852.5	3174.0	*3229.3*	3382.2
45°	4388.0	4437.2	4541.7	4536.5	4300.7	3812.0	3318.8	3259.1	3673.2	*3732.1*	3726.2
47.5°	4478.3	4528.3	4701.4	4805.8	4676.0	4265.6	3868.7	3817.2	4269.4	*4333.5*	4106.0
50°	4524.5	4584.2	4805.1	5007.3	4969.2	4702.9	4495.4	4498.4	4989.4	*5051.3*	4546.2
52.5°	4416.3	4493.9	4860.3	5224.4	5298.3	5121.4	5082.6	5181.1	5630.3	*5683.3*	4943.9
55°	4070.9	4168.6	4784.9	5409.4	5679.5	5615.4	5749.7	5899.7	6330.9	*6365.2*	5352.0
57.5°	3852.3	3956.0	4562.6	5566.9	6137.7	6236.2	6448.8	6558.5	7053.9	*7141.2*	5820.6
60°	3668.0	3749.3	4379.8	5600.5	6603.3	6995.7	7202.4	7315.8	7946.3	*8003.0*	6336.1
62.5°	3361.3	3454.6	4070.9	5366.2	6837.5	7603.8	8032.1	7981.4	8636.5	*8676.0*	6652.5
65°	*2868.1*	*2876.3*	*3444.1*	*4777.5*	*6595.8*	*7998.5*	*8614.8*	*8402.2*	*8966.3*	*8993.1*	*6627.9*
67.5°	2140.6	2219.7	2649.5	3755.3	5571.4	7661.3	8803.6	8413.4	8758.1	*8683.5*	6101.9
70°	1378.8	1439.3	1795.9	2604.0	4017.2	6393.6	8177.6	7836.6	7686.6	*7521.0*	4994.6
72.5°	636.4	714.0	1067.0	1487.8	2382.4	4554.4	6638.3	6366.7	5532.6	*5123.7*	3174.8
75°	277.6	297.0	526.8	784.9	1117.0	2408.5	4376.8	3952.3	2498.8	*2282.4*	1270.7
77.5°	169.4	182.1	276.1	420.8	438.7	917.7	2357.8	1724.3	772.2	*681.2*	344.7
80°	114.9	129.1	200.7	220.1	150.0	255.9	884.9	460.4	155.9	*149.2*	73.9
82.5°	56.0	70.9	148.5	123.1	64.9	82.1	257.4	98.5	45.5	*42.5*	26.1
85°	8.2	14.2	83.6	80.6	29.1	19.4	45.5	24.6	15.7	*14.9*	11.9
87.5°	0.0	0.0	28.4	12.7	3.0	3.0	5.2	5.2	6.0	*5.2*	6.0
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°	1933.2	1933.2	1933.2	1933.2	1933.2	1933.2	1933.2	1933.2	1933.2	1933.2	1933.2
2.5°	1948.1	1951.9	1937.7	1917.6	1895.9	1874.3	1843.7	1816.1	1799.7	1809.4	1785.5
5°	1983.2	1980.2	1942.9	1881.7	1800.4	1702.7	1605.7	1522.9	1496.0	1455.7	1451.2
7.5°	2031.7	2023.5	1944.4	1804.1	1620.6	1437.0	1258.0	1139.3	1071.4	1014.0	1015.5
10°	2099.6	2075.7	1927.3	1667.6	1365.4	1088.6	860.3	703.6	635.7	614.1	596.9
12.5°	2169.7	2123.5	1879.5	1483.3	1063.2	743.9	523.0	427.5	385.7	372.3	370.8
15°	2232.4	2159.3	1795.9	1261.7	773.0	475.3	356.7	325.3	320.1	320.8	320.1
17.5°	2294.4	2187.7	1680.3	1026.7	525.3	341.0	306.7	299.2	301.4	304.4	303.7
20°	2345.8	2193.6	1532.6	783.4	371.6	299.2	288.0	286.5	288.8	291.0	291.0
22.5°	2401.8	2198.1	1357.2	542.4	303.7	278.3	272.3	272.3	275.3	278.3	279.1
25°	2443.6	2173.5	1147.5	389.5	267.9	258.2	255.2	255.9	258.9	260.4	259.7
27.5°	2450.3	2104.1	925.2	298.5	243.2	233.5	230.6	233.5	229.8	232.0	230.6
30°	2456.3	2016.0	699.9	251.4	220.9	205.9	201.5	197.0	194.0	190.3	189.5
32.5°	2474.9	1912.3	511.1	226.1	200.0	183.5	173.1	160.4	150.7	147.7	147.0
35°	2483.1	1787.7	375.3	205.9	181.3	163.4	144.7	126.8	112.7	107.4	111.2
37.5°	2514.5	1666.9	291.0	191.0	164.9	142.5	118.6	96.3	82.8	79.8	81.3
40°	2578.6	1535.5	244.0	178.3	150.7	123.1	94.0	72.4	63.4	60.4	59.7
42.5°	2681.6	1405.0	217.1	166.4	136.5	103.7	73.9	56.7	49.2	47.0	47.0
45°	2806.9	1279.6	198.5	153.7	121.6	83.6	58.2	45.5	41.0	39.5	39.5
47.5°	2971.8	1169.9	182.8	141.0	105.2	66.4	47.0	39.5	36.6	37.3	38.1
50°	3139.0	1088.6	165.6	126.8	86.6	54.5	40.3	35.1	34.3	35.1	35.1
52.5°	3265.1	1040.9	142.5	107.4	67.9	45.5	35.8	32.8	32.1	30.6	30.6
55°	3435.2	1030.4	113.4	87.3	53.7	38.1	32.1	29.8	27.6	26.1	25.4
57.5°	3653.8	1042.3	87.3	67.9	41.8	31.3	28.4	24.6	21.6	18.7	18.7
60°	3789.6	1015.5	67.9	52.2	30.6	25.4	21.6	17.9	14.2	11.9	11.2
62.5°	3746.3	902.1	53.7	38.8	21.6	18.7	14.2	11.9	8.2	6.0	5.2
65°	*3523.2*	*728.2*	*43.3*	*26.9*	*15.7*	*11.2*	*7.5*	*7.5*	*3.7*	*0.7*	*0.0*
67.5°	3083.8	539.5	34.3	17.9	9.0	5.2	3.7	2.2	0.0	0.0	0.0
70°	2510.0	389.5	26.9	11.2	5.2	3.7	1.5	0.7	0.0	0.0	0.0
72.5°	1593.7	223.1	20.9	6.7	3.7	1.5	0.0	0.0	0.0	0.0	0.0
75°	616.3	87.3	14.2	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	174.6	41.0	8.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	45.5	17.9	4.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	21.6	7.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.7	3.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)