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: P456882

Luminaire Tested: **GALN-SA8A-830-U-T3**

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:	P456882
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab:	INNOVATION CENTER
Issue Date:	1/4/2021
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SA8A-830-U-T3
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	29100 lumens
Efficiency:	N/A
Efficacy:	119.3 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B3 - U0 - G4

Input Watts (W):	244
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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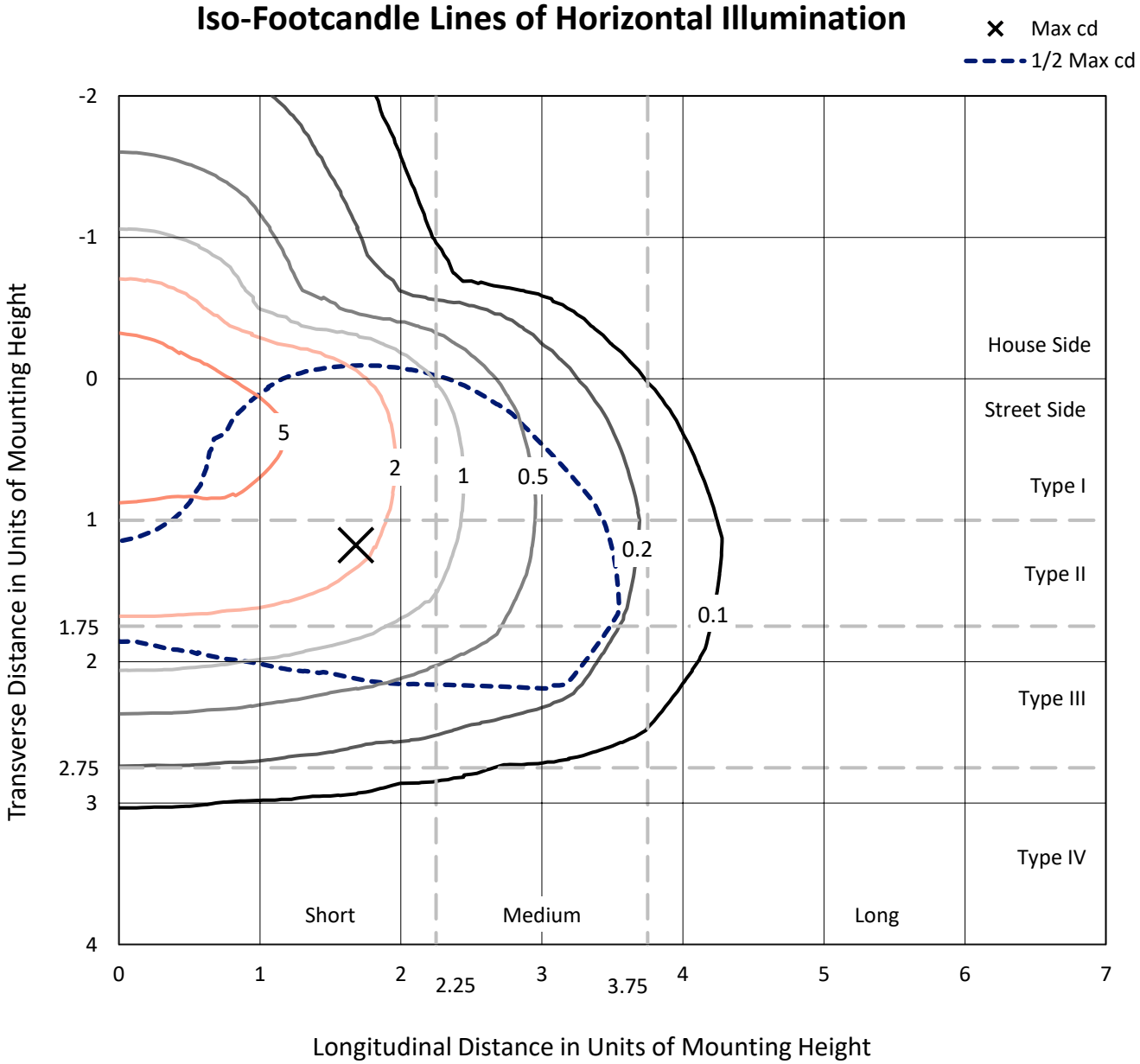
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
Type III - Short - N/A

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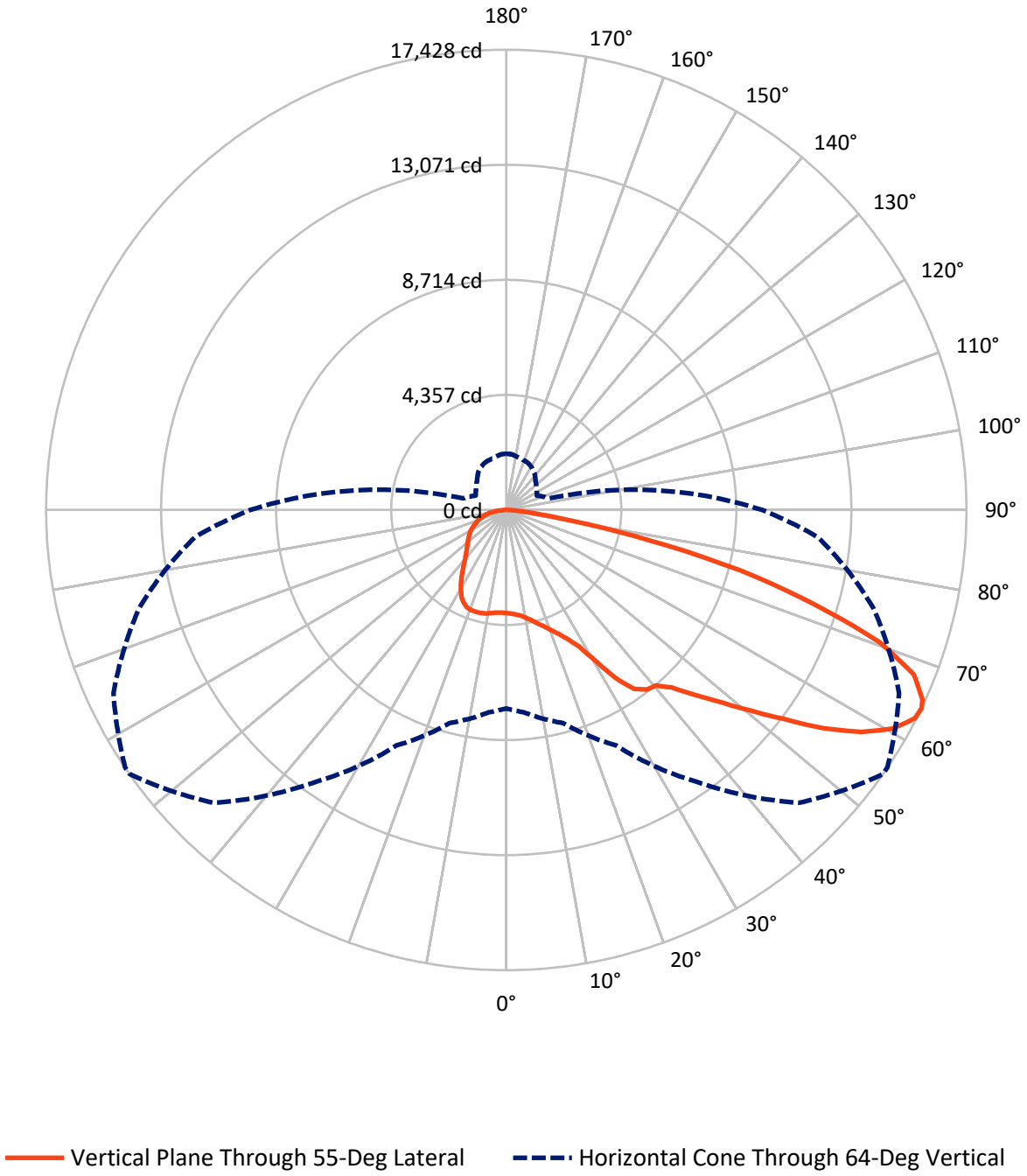
Luminous Intensity Polar Plot



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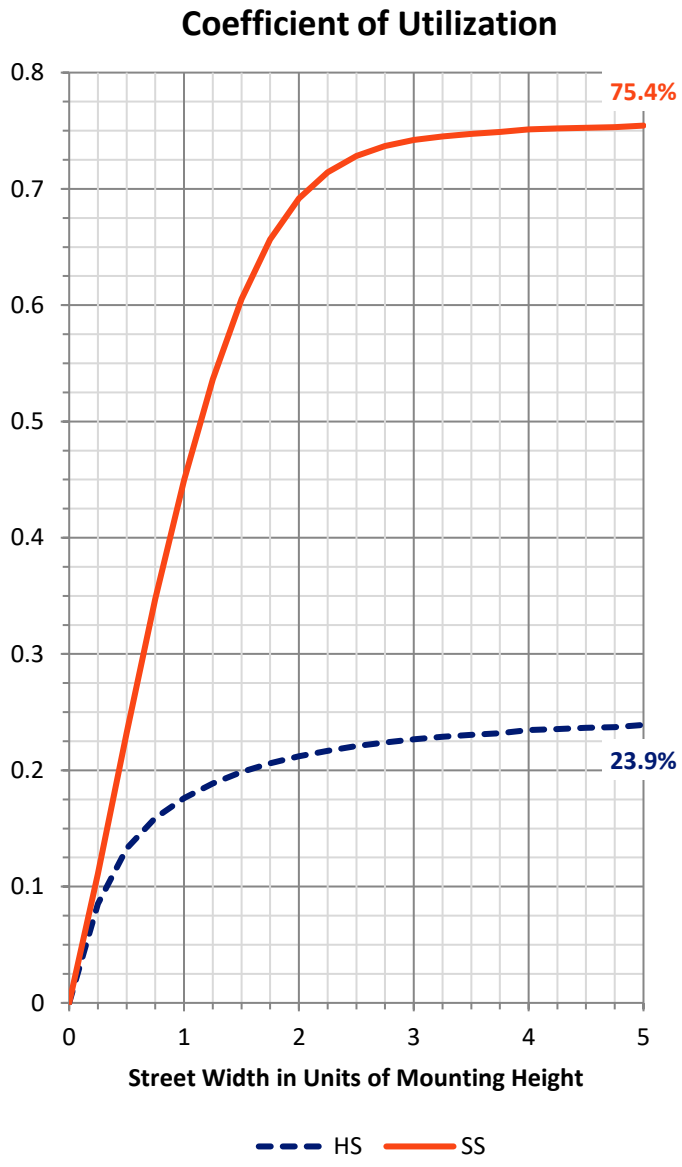
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7069.0	0.0	7069.0
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	22031.0	0.0	22031.0
	% Fixture	75.7	0.0	75.7
Total	Lumens	29100.0	0.0	29100.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.8	1.3
10°-20°	1198.3	4.1
20°-30°	2133.4	7.3
30°-40°	3282.4	11.3
40°-50°	4653.1	16.0
50°-60°	6735.3	23.1
60°-70°	6970.3	24.0
70°-80°	3264.2	11.2
80°-90°	483.2	1.7
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°	29100.0	100.0
0°-180°	29100.0	100.0



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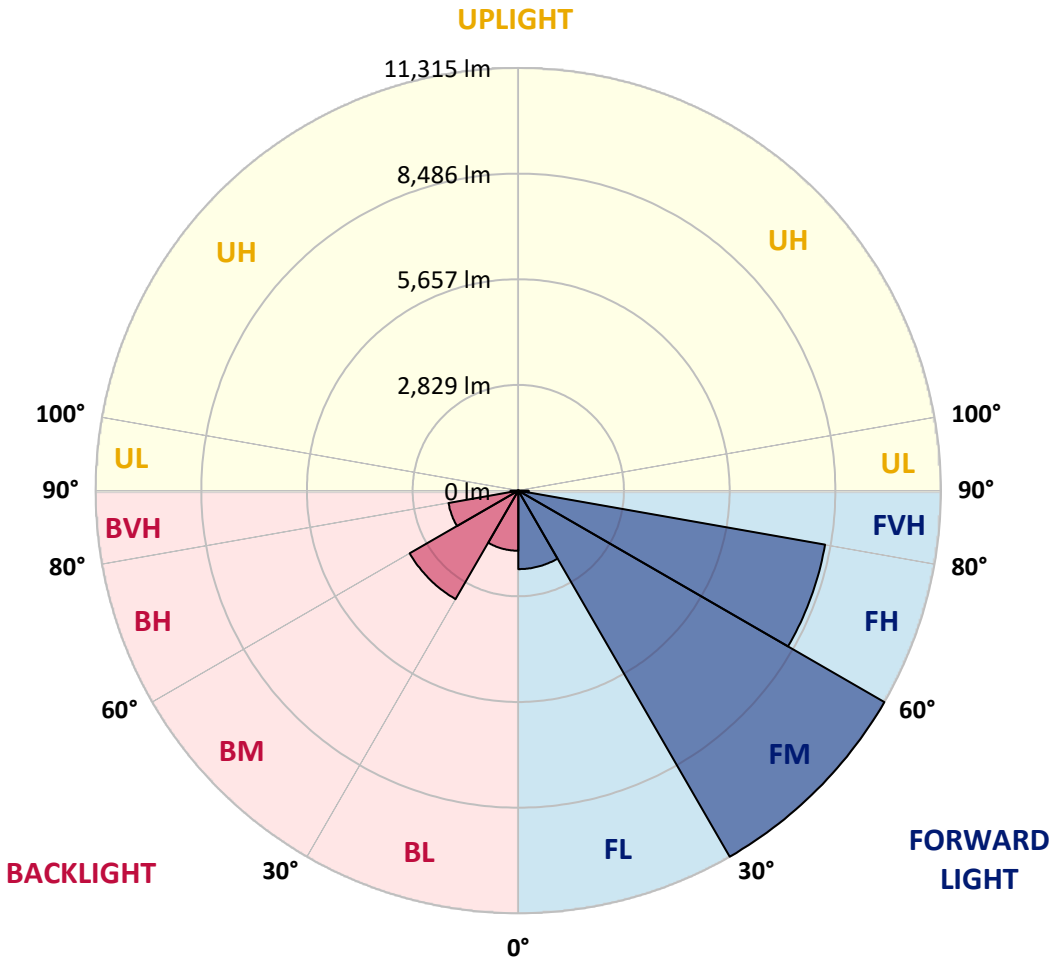
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2101.5	7.2			
FM	(30°-60°)	11314.9	38.9			
FH	(60°-80°)	8338.0	28.7			G4/12000
FVH	(80°-90°)	276.7	1.0			G3/500
BL	(0°-30°)	1610.0	5.5	B3/2500		
BM	(30°-60°)	3355.9	11.5	B3/5000		
BH	(60°-80°)	1896.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	206.5	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3904.3	3904.3	3904.3	3904.3	3904.3	3904.3	3904.3	3904.3	3904.3	3904.3	3904.3
2.5°	3948.1	3946.5	3951.4	3946.5	3949.8	3938.4	3933.5	3936.8	3931.9	3923.8	3909.2
5°	3996.8	3995.2	3996.8	3990.3	3993.6	3987.1	3975.7	3979.0	3970.8	3953.0	3931.9
7.5°	4079.5	4073.0	4073.0	4071.4	4064.9	4055.2	4047.1	4043.8	4035.7	4013.0	3980.6
10°	4186.6	4186.6	4188.2	4175.2	4183.3	4165.5	4157.4	4155.8	4128.2	4099.0	4053.6
12.5°	4327.7	4335.8	4330.9	4324.5	4321.2	4314.7	4287.2	4293.6	4262.8	4212.5	4157.4
15°	4502.9	4515.9	4507.8	4504.5	4496.4	4472.1	4460.7	4455.8	4415.3	4342.3	4269.3
17.5°	4734.8	4718.6	4712.1	4704.0	4670.0	4652.1	4632.7	4629.4	4593.7	4507.8	4394.2
20°	4937.6	4960.3	4947.3	4939.2	4905.2	4871.1	4856.5	4851.6	4820.8	4726.7	4545.1
22.5°	5179.3	5184.2	5189.0	5169.6	5153.3	5127.4	5101.4	5093.3	5082.0	4984.6	4762.4
25°	5437.2	5456.7	5440.4	5421.0	5401.5	5399.9	5424.2	5421.0	5416.1	5322.0	5051.2
27.5°	5857.3	5875.2	5880.0	5858.9	5784.3	5790.8	5846.0	5863.8	5938.4	5782.7	5422.6
30°	6094.1	6112.0	6152.5	6232.0	6350.4	6454.2	6587.3	6627.8	6699.2	6405.6	5863.8
32.5°	6240.1	6246.6	6319.6	6467.2	6822.5	7210.1	7571.9	7586.5	7631.9	7219.9	6267.7
35°	6470.5	6475.3	6533.7	6695.9	7112.8	7758.4	8318.0	8335.9	8298.6	7472.9	6455.9
37.5°	6754.3	6767.3	6804.6	6939.2	7437.2	8217.4	8627.8	8614.9	8284.0	7674.1	6788.4
40°	7168.0	7168.0	7124.2	7305.8	7779.5	8480.2	8736.5	8713.8	8626.2	8256.4	7294.5
42.5°	7532.9	7526.4	7630.3	7753.5	8207.7	8885.7	9192.3	9229.6	9374.0	8987.9	7870.3
45°	8008.2	8037.4	8095.8	8319.6	8936.0	9578.4	9974.2	10009.8	10214.2	9849.3	8543.5
47.5°	8488.3	8498.1	8681.4	8979.8	9837.9	10517.6	10842.0	10900.4	11086.9	10856.6	9268.6
50°	8829.0	8921.4	9215.0	9685.4	10767.4	11662.7	11915.8	11985.5	12314.8	11953.1	10113.7
52.5°	9189.1	9279.9	9638.4	10355.3	11834.7	12833.9	13145.3	13192.4	13534.6	13062.6	10978.2
55°	9497.3	9581.6	9988.8	10949.0	12684.6	14029.4	14593.8	14538.7	14702.5	13917.4	11644.9
57.5°	9547.6	9615.7	10128.3	11328.6	13323.7	15054.5	15863.9	15896.4	15706.6	14556.5	12194.8
60°	9158.3	9297.8	9886.6	11288.0	13610.9	15768.2	16811.2	16833.9	16295.4	14884.2	12413.8
62.5°	8468.9	8454.3	9166.4	10636.0	13208.6	15930.4	17369.2	17344.9	16525.7	14726.8	12201.3
64°	7516.7	7691.9	8356.9	9834.7	12559.7	15680.6	17427.6	17414.6	16415.4	14399.2	11839.5
65°	6936.0	6926.3	7583.2	9179.3	11914.2	15304.3	17323.8	17305.9	16185.1	14105.6	11558.9
67.5°	5007.4	5030.1	5678.9	7083.6	9685.4	13833.1	16647.4	16580.9	15276.7	13132.3	10491.6
70°	3033.3	3046.3	3555.6	4699.2	6952.2	11182.6	15005.8	15009.1	13886.6	11679.0	8929.5
72.5°	1597.7	1631.8	1836.2	2668.3	4222.3	7846.0	12173.7	12462.4	11922.3	9967.7	7054.4
75°	888.9	893.8	1038.1	1315.5	2154.1	4391.0	9150.1	9232.9	9438.9	8022.8	5216.6
77.5°	678.0	687.8	733.2	850.0	1172.8	2035.7	5537.8	5953.0	6652.1	5656.2	2976.5
80°	549.9	559.6	598.5	668.3	780.2	965.1	2572.6	2796.5	3560.5	2511.0	1161.4
82.5°	428.2	421.7	472.0	517.4	567.7	571.0	1056.0	1167.9	1450.1	1080.3	502.8
85°	317.9	317.9	358.5	348.7	366.6	334.1	465.5	514.2	580.7	459.0	233.6
87.5°	126.5	139.5	235.2	210.9	163.8	131.4	171.9	181.7	201.1	180.1	97.3
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°	3904.3	3904.3	3904.3	3904.3	3904.3	3904.3	3904.3	3904.3	3904.3	3904.3	3904.3
2.5°	3910.8	3915.7	3904.3	3896.2	3893.0	3888.1	3883.3	3884.9	3891.4	3897.9	3896.2
5°	3930.3	3931.9	3912.5	3902.7	3896.2	3889.7	3889.7	3894.6	3907.6	3917.3	3917.3
7.5°	3979.0	3979.0	3951.4	3933.5	3923.8	3912.5	3909.2	3910.8	3920.6	3933.5	3935.2
10°	4055.2	4048.7	4013.0	3985.4	3967.6	3940.0	3915.7	3902.7	3907.6	3915.7	3915.7
12.5°	4147.7	4129.8	4084.4	4047.1	4003.3	3951.4	3901.1	3875.1	3873.5	3881.6	3878.4
15°	4246.6	4227.1	4163.9	4095.7	4019.5	3943.3	3883.3	3845.9	3816.7	3808.6	3826.5
17.5°	4361.8	4321.2	4233.6	4139.5	4026.0	3927.1	3833.0	3756.7	3704.8	3690.2	3695.1
20°	4501.3	4447.7	4329.3	4181.7	4021.1	3868.7	3722.7	3620.5	3536.1	3510.2	3513.4
22.5°	4694.3	4601.8	4428.3	4202.8	3980.6	3758.4	3555.6	3422.6	3320.4	3279.8	3304.2
25°	4913.3	4812.7	4522.4	4197.9	3875.1	3581.5	3357.7	3184.1	3091.7	3031.7	3044.6
27.5°	5215.0	5036.6	4622.9	4154.1	3724.3	3365.8	3106.3	2942.4	2858.1	2827.3	2841.9
30°	5601.0	5326.9	4731.6	4035.7	3485.8	3093.3	2853.2	2746.2	2695.9	2657.0	2669.9
32.5°	5880.0	5531.3	4755.9	3836.2	3227.9	2845.1	2681.3	2601.8	2546.7	2509.4	2517.5
35°	6079.5	5704.8	4744.6	3591.3	2958.7	2640.7	2545.0	2480.2	2390.9	2309.8	2295.2
37.5°	6347.2	5922.2	4661.9	3323.6	2692.6	2502.9	2434.7	2314.7	2186.6	2077.9	2073.0
40°	6757.6	6176.9	4485.0	3009.0	2465.6	2400.7	2317.9	2162.2	2024.4	1936.8	1930.3
42.5°	7180.9	6412.1	4245.0	2678.1	2279.0	2293.6	2193.0	2039.0	1954.6	1897.8	1891.3
45°	7698.4	6666.7	3985.4	2390.9	2141.1	2193.0	2084.4	1995.2	1944.9	1907.6	1897.8
47.5°	8258.0	6927.9	3693.5	2133.0	2024.4	2100.6	2039.0	1998.4	1970.8	1944.9	1933.5
50°	8861.4	7219.9	3419.3	1925.4	1918.9	2004.9	2034.1	2019.5	2003.3	1995.2	1985.4
52.5°	9523.2	7518.3	3189.0	1779.4	1826.5	1936.8	2035.7	2047.1	2047.1	2042.2	2035.7
55°	9970.9	7726.0	2955.4	1661.0	1732.4	1881.6	2032.5	2076.3	2092.5	2086.0	2079.5
57.5°	10301.8	7839.5	2661.8	1558.8	1652.9	1828.1	2014.6	2079.5	2095.7	2103.8	2100.6
60°	10369.9	7734.1	2277.4	1451.8	1566.9	1750.2	1949.7	2030.8	2051.9	2102.2	2107.1
62.5°	10063.4	7409.7	1894.6	1346.3	1461.5	1631.8	1862.1	1975.7	2017.9	2095.7	2103.8
64°	*9687.0*	*7046.3*	*1682.1*	*1279.8*	*1393.4*	*1565.3*	*1818.3*	*1961.1*	*2016.2*	*2120.1*	*2126.5*
65°	9411.3	6781.9	1549.1	1237.6	1349.6	1521.5	1794.0	1966.0	2030.8	2157.4	2167.1
67.5°	8395.9	5871.9	1281.4	1138.7	1245.8	1446.9	1798.9	2006.5	2027.6	2172.0	2170.3
70°	6947.4	4674.8	1073.8	1047.9	1145.2	1386.9	1779.4	1941.6	1943.2	2039.0	2016.2
72.5°	5202.0	3455.0	931.1	953.8	1033.3	1244.1	1680.5	1854.0	1826.5	1839.4	1816.7
75°	3573.4	2285.5	801.3	853.2	916.5	1099.8	1541.0	1683.7	1639.9	1623.7	1607.5
77.5°	1907.6	1263.6	666.7	754.3	796.4	950.5	1344.7	1482.6	1437.2	1373.9	1352.8
80°	772.1	595.3	536.9	624.5	648.8	765.6	1119.2	1205.2	1171.1	1060.8	1025.2
82.5°	387.7	356.9	421.7	491.5	493.1	546.6	832.1	913.2	837.0	702.4	671.5
85°	202.8	209.2	290.4	345.5	305.0	295.2	499.6	553.1	507.7	441.2	397.4
87.5°	73.0	84.3	152.5	150.9	107.1	56.8	110.3	53.5	29.2	17.8	22.7
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)