

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: P192654

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192654
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-AFL-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18571.9 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 193
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

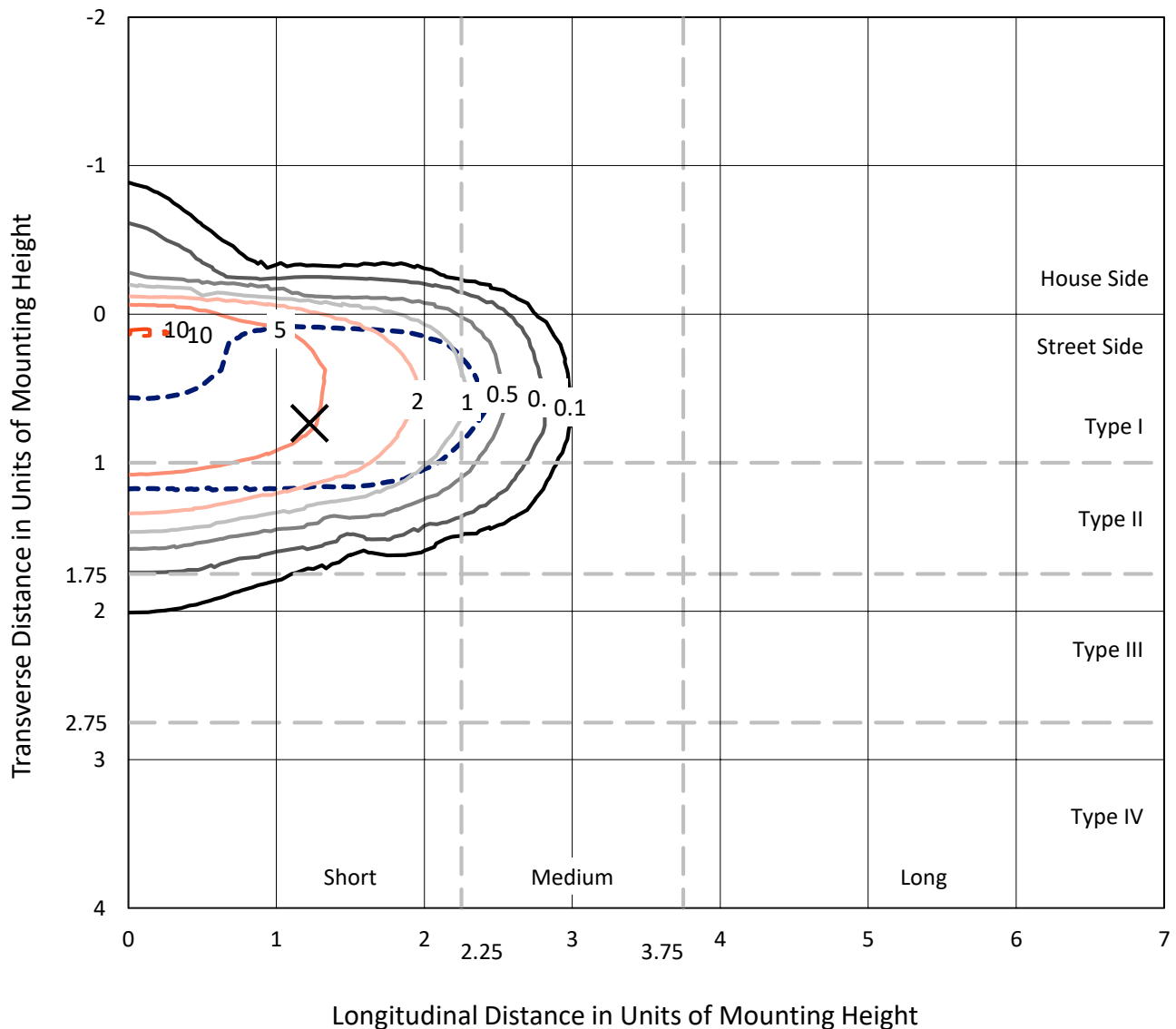


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

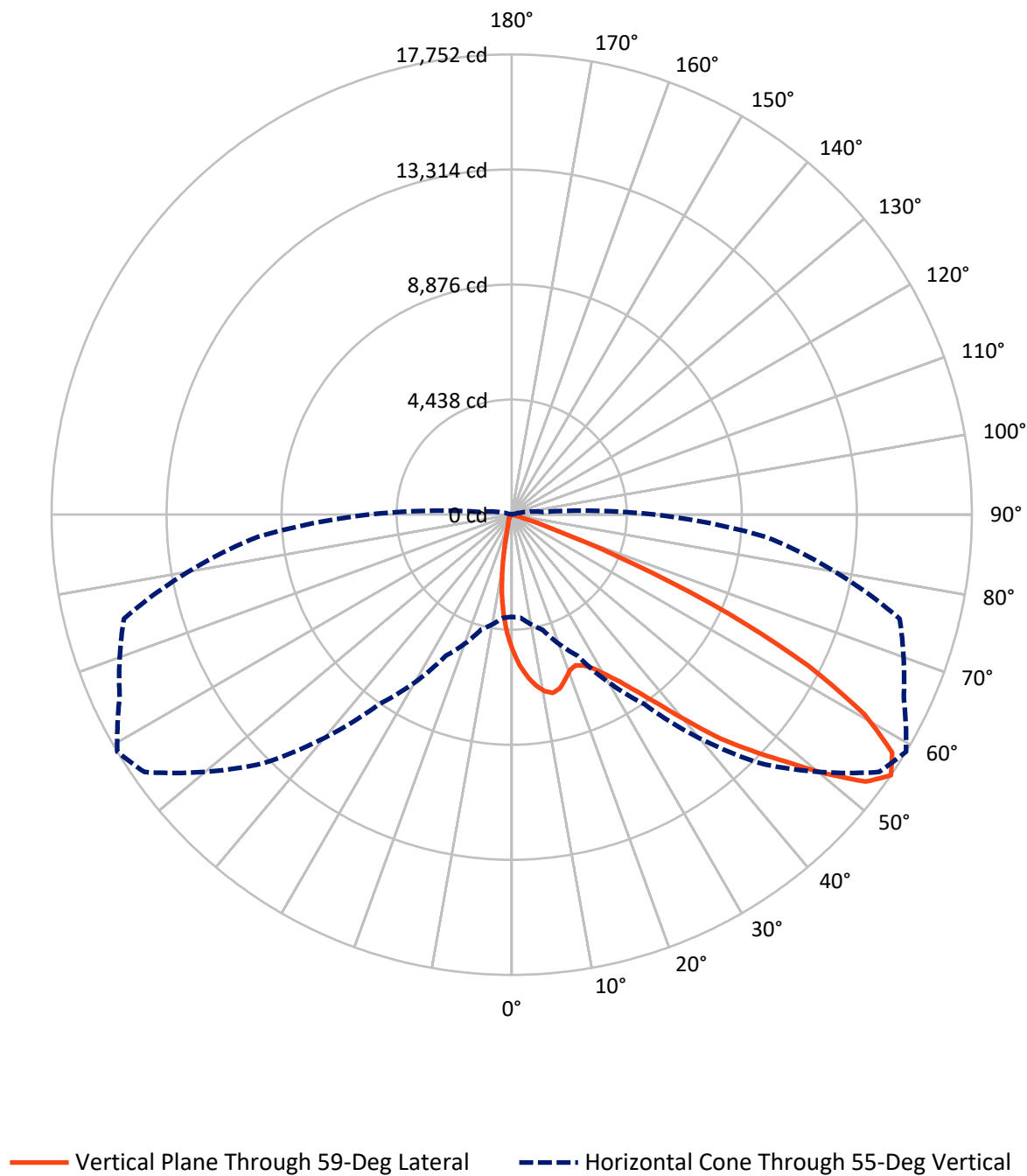


Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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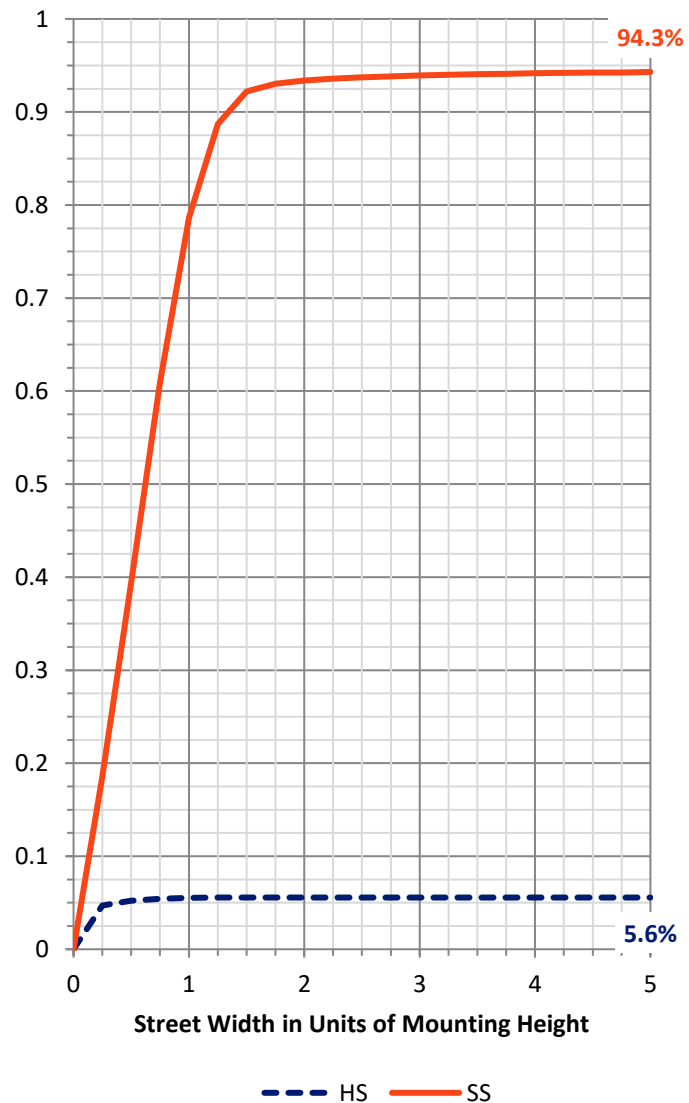
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1037.3	0.0	1037.3
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	17534.5	0.0	17534.5
	% Fixture	94.4	0.0	94.4
Total	Lumens	18571.9	0.0	18571.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.9	2.4
10°-20°	1048.4	5.6
20°-30°	1784.0	9.6
30°-40°	3068.2	16.5
40°-50°	4736.9	25.5
50°-60°	4762.1	25.6
60°-70°	2442.0	13.1
70°-80°	264.6	1.4
80°-90°	27.7	0.1
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°	18571.9	100.0
0°-180°	18571.9	100.0

Coefficient of Utilization



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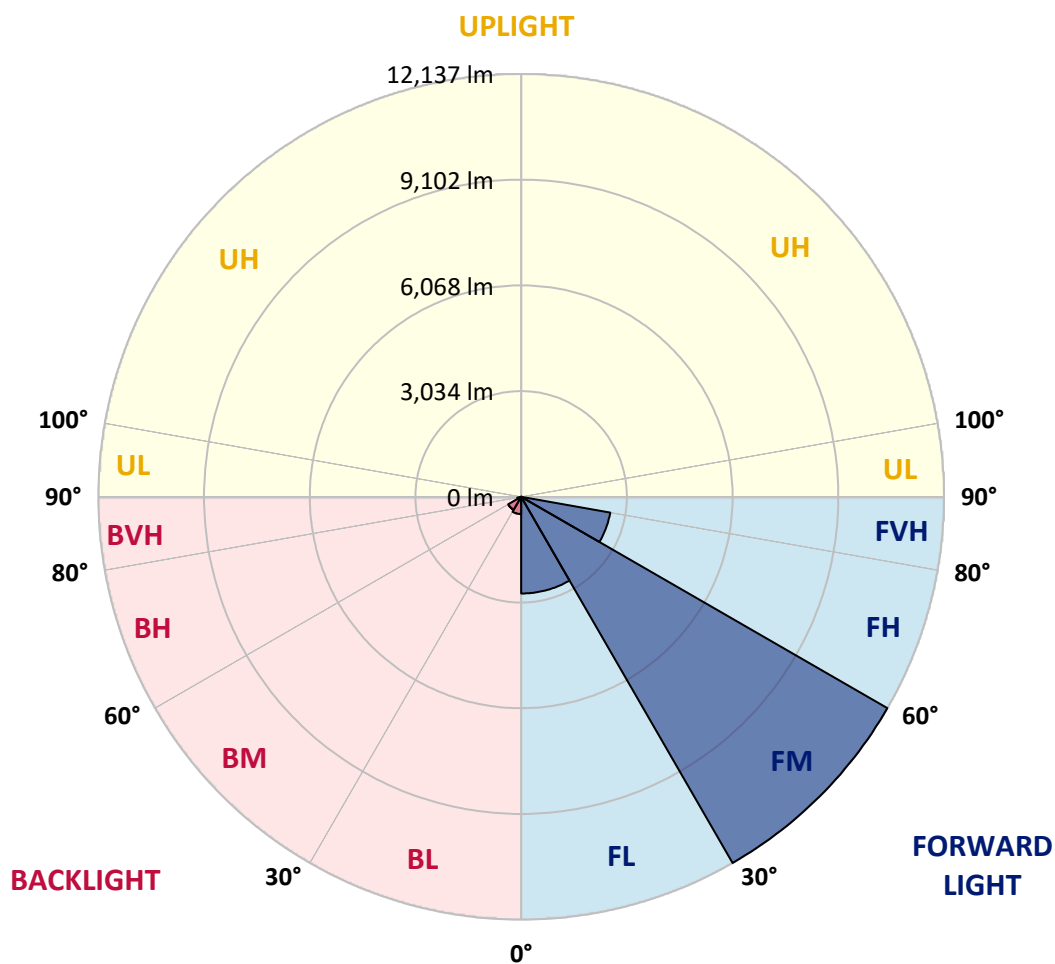
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2775.3	14.9			
FM	(30°-60°)	12136.7	65.3			
FH	(60°-80°)	2595.6	14.0			G2/5000
FVH	(80°-90°)	27.1	0.1			G1/100
BL	(0°-30°)	495.1	2.7	B1/500		
BM	(30°-60°)	430.5	2.3	B1/1000		
BH	(60°-80°)	111.1	0.6	B1/500		G1/500
BVH	(80°-90°)	0.6	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5227.9	5227.9	5227.9	5227.9	5227.9	5227.9	5227.9	5227.9	5227.9	5227.9	5227.9
2.5°	6185.8	6120.0	6100.4	6087.2	6026.8	5951.3	5848.2	5800.0	5701.3	5542.5	5347.3
5°	6752.4	6740.4	6696.6	6672.5	6607.8	6500.4	6336.0	6257.1	6100.4	5833.0	5483.2
7.5°	6504.7	6580.3	6640.7	6741.6	6868.6	6864.2	6726.1	6643.9	6468.5	6115.7	5634.5
10°	5547.9	5609.4	5707.9	5937.0	6403.9	6816.0	6978.3	6919.1	6778.8	6375.4	5780.3
12.5°	5360.6	5353.9	5371.5	5438.4	5682.8	6270.2	6935.4	7055.0	7026.5	6613.3	5918.3
15°	5460.2	5452.6	5450.4	5473.5	5532.6	5780.3	6614.3	6957.4	7177.7	6833.5	6035.7
17.5°	5739.7	5706.8	5689.3	5670.7	5653.2	5714.6	6228.6	6684.5	7200.7	7026.5	6133.3
20°	6218.7	6163.9	6099.3	5994.1	5895.4	5864.7	6066.4	6403.9	7118.6	7173.3	6196.7
22.5°	6820.4	6750.2	6638.5	6446.7	6246.2	6129.9	6146.4	6315.1	6995.8	7333.4	6226.3
25°	7496.6	7406.8	7257.8	6991.4	6696.6	6490.5	6383.2	6442.3	6939.8	7520.8	6260.3
27.5°	8221.1	8121.4	7926.3	7563.5	7229.2	6950.8	6731.7	6724.0	7035.2	7766.2	6315.1
30°	8938.9	8923.6	8669.4	8285.7	7842.9	7504.4	7188.7	7148.1	7301.6	8106.1	6423.7
32.5°	9896.9	9781.8	9470.5	9075.9	8565.3	8158.6	7784.9	7690.6	7710.3	8501.7	6591.4
35°	11104.7	10978.6	10540.2	9995.5	9424.4	8944.5	8531.3	8403.0	8354.8	9149.4	6874.1
37.5°	11885.0	11882.8	11607.7	11053.2	10440.5	9911.1	9461.8	9311.6	9214.1	9932.0	7312.5
40°	11905.9	11957.4	11993.5	11988.0	11551.9	11064.1	10665.2	10479.9	10253.1	10977.5	7879.1
42.5°	11267.0	11399.4	11718.4	12259.9	12518.5	12324.6	11988.0	11806.1	11468.5	12096.5	8569.6
45°	10403.2	10495.3	11053.2	12050.5	13042.4	13574.0	13317.5	12992.0	12547.0	13263.7	9188.8
47.5°	10016.4	10032.7	10393.4	11488.3	13081.8	14597.6	14753.3	14223.9	13526.9	14204.1	9673.3
50°	8860.1	8889.7	9387.2	10513.9	12619.3	15080.9	16195.6	15693.7	14595.4	14928.6	9849.7
52.5°	6677.9	6719.6	7350.9	8912.8	11348.0	14874.9	17228.0	17106.4	15766.0	15282.6	9859.7
55°	3940.1	3994.9	4597.7	5999.5	8925.8	13564.1	17304.7	17751.9	16689.9	15492.0	9844.3
57.5°	1840.2	1878.5	2223.8	3090.7	5551.3	10720.0	16149.6	17309.2	17199.5	15602.7	9952.8
60°	977.7	988.6	1071.9	1338.2	2508.7	6797.3	13895.0	15630.1	16734.8	15756.1	10085.4
62.5°	747.5	750.7	746.4	778.2	1054.4	3017.3	10503.0	12849.6	14863.9	15641.0	9938.6
65°	647.7	653.3	622.6	614.8	676.2	1076.3	6239.6	9159.3	11680.1	14088.0	8937.9
67.5°	580.9	583.1	545.9	514.1	525.0	582.1	2461.6	5014.2	7731.1	10326.5	6478.4
70°	534.9	532.6	492.1	441.7	427.4	397.8	782.6	1838.0	3694.6	5236.7	3013.0
72.5°	473.4	474.6	454.8	389.1	355.1	278.4	362.7	535.9	1102.5	1427.0	705.9
75°	419.8	414.3	390.2	348.5	292.6	183.0	179.7	239.0	339.8	337.6	152.3
77.5°	303.6	298.1	305.8	286.0	224.6	118.3	89.9	115.0	138.1	133.8	42.7
80°	222.5	219.2	197.3	237.8	198.5	81.1	55.9	61.4	71.2	60.3	13.1
82.5°	152.3	151.3	139.2	131.5	112.9	49.2	35.1	38.4	46.0	34.0	6.5
85°	24.1	27.5	100.8	80.0	66.8	22.0	24.1	26.3	30.7	18.7	2.1
87.5°	0.0	0.0	47.1	41.6	13.1	8.7	14.2	15.3	15.3	9.9	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5227.9	5227.9	5227.9	5227.9	5227.9	5227.9	5227.9	5227.9	5227.9	5227.9	5227.9
2.5°	5247.6	5138.0	4935.2	4725.9	4532.0	4300.7	4141.8	4022.3	3884.2	3846.9	3928.1
5°	5283.8	5076.6	4640.5	4165.9	3719.8	3225.6	2847.4	2548.3	2277.5	2185.4	2268.8
7.5°	5340.8	5032.8	4321.5	3540.1	2764.2	1992.6	1464.3	1116.8	895.4	829.8	864.8
10°	5397.9	4969.2	3952.1	2799.2	1738.2	970.0	631.3	504.1	457.0	447.2	452.7
12.5°	5444.9	4883.8	3501.8	1990.3	929.4	519.5	413.2	392.3	385.8	385.8	388.0
15°	5473.5	4754.4	2967.9	1265.9	534.9	392.3	360.5	354.0	354.0	355.1	357.3
17.5°	5470.2	4590.1	2383.8	766.1	400.0	347.5	328.8	323.3	322.2	324.4	325.5
20°	5429.5	4375.2	1797.5	505.3	348.5	316.8	298.1	288.2	287.2	289.3	291.5
22.5°	5352.8	4110.0	1285.7	389.1	314.5	287.2	264.2	255.3	255.3	257.6	259.7
25°	5259.7	3785.7	879.0	329.9	283.8	255.3	233.5	225.7	228.0	233.5	234.6
27.5°	5143.5	3420.6	597.3	282.8	246.6	223.6	207.1	201.7	207.1	214.8	217.0
30°	5043.9	3040.3	426.3	244.4	209.3	192.9	183.0	183.0	190.6	205.0	208.2
32.5°	4967.0	2672.1	328.8	215.9	181.9	167.7	162.2	167.7	179.7	194.1	197.3
35°	4957.2	2368.4	278.4	192.9	162.2	147.9	145.8	155.5	167.7	178.6	180.9
37.5°	5032.8	2087.8	251.0	174.3	144.7	131.5	129.4	141.4	153.4	166.6	169.9
40°	5176.3	1867.6	231.3	156.7	130.4	116.2	111.8	120.5	137.0	154.5	159.0
42.5°	5362.8	1685.7	209.3	139.2	116.2	96.4	91.0	100.8	118.3	137.0	142.5
45°	5540.3	1529.0	185.2	119.4	97.6	74.6	72.3	85.4	94.3	112.9	117.2
47.5°	5637.8	1390.9	164.4	97.6	75.6	60.3	60.3	63.6	72.3	94.3	98.7
50°	5604.9	1280.1	142.5	72.3	52.6	46.0	46.0	44.9	58.1	75.6	78.8
52.5°	5539.2	1216.6	122.7	55.9	36.2	32.9	29.6	32.9	40.5	48.2	49.2
55°	5529.3	1205.5	103.0	44.9	25.2	22.0	16.4	16.4	16.4	15.3	13.1
57.5°	5606.1	1223.1	86.6	36.2	18.7	14.2	8.7	0.0	0.0	0.0	0.0
60°	5685.0	1241.7	74.6	25.2	13.1	7.6	1.1	0.0	0.0	0.0	0.0
62.5°	5553.4	1200.1	62.5	15.3	9.9	3.3	0.0	0.0	0.0	0.0	0.0
65°	4878.3	1021.5	49.2	10.9	6.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3470.0	683.9	32.9	6.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	1583.7	286.0	20.9	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	338.7	88.8	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	69.1	64.7	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	22.0	101.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.1	73.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.1	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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)