

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: P194271

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-7060-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194271
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-03-LED-E1-AFL-7060-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1050mA 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: 14876 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 166
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



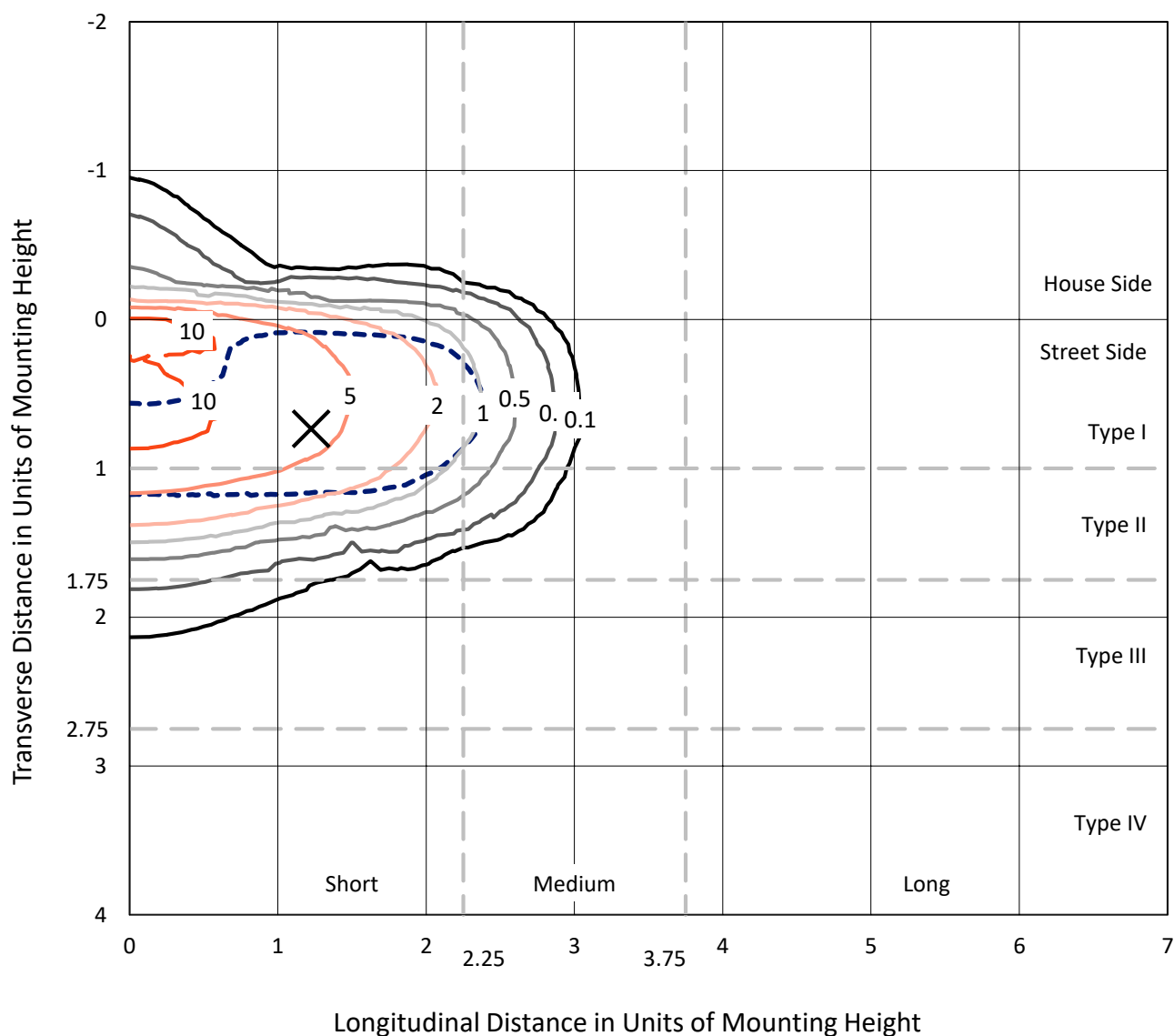
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

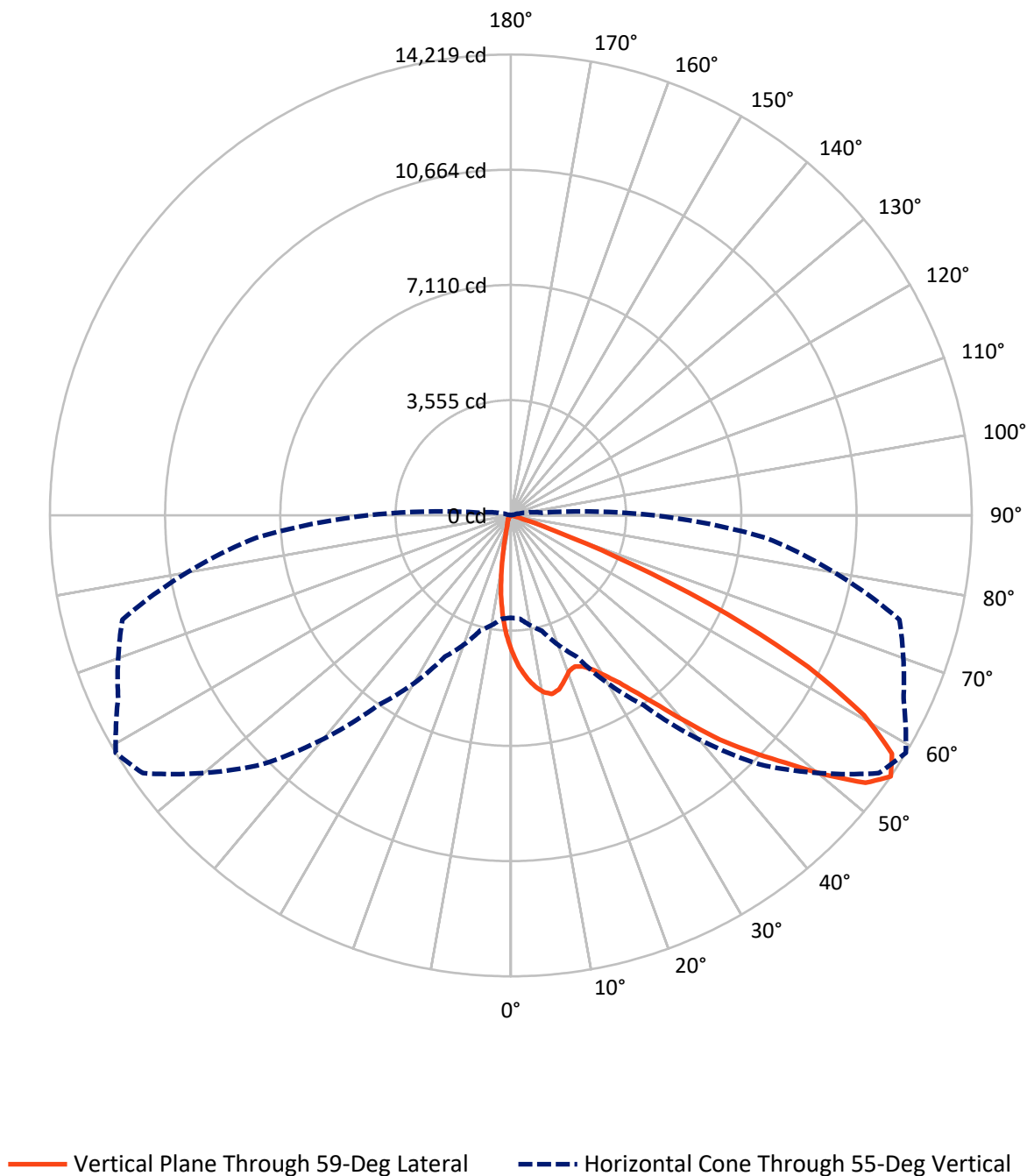


Based on 20 foot mounting height. Maximum calculated value = 13 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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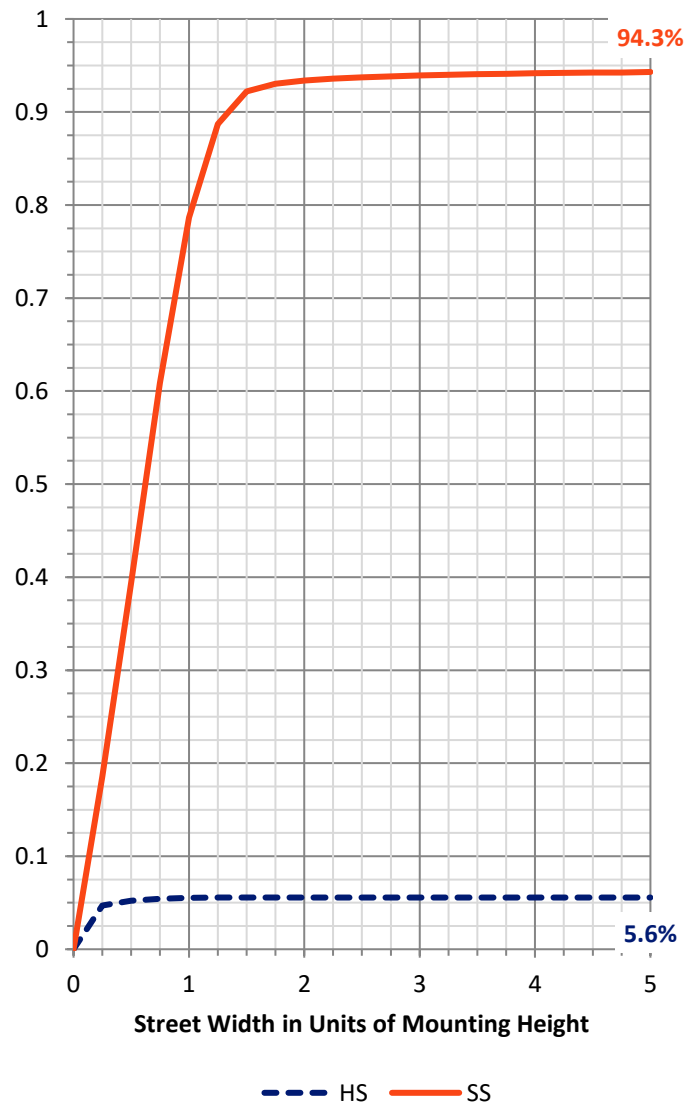
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	830.9	0.0	830.9
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	14045.1	0.0	14045.1
	% Fixture	94.4	0.0	94.4
Total	Lumens	14876.0	0.0	14876.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.7	2.4
10°-20°	839.8	5.6
20°-30°	1429.0	9.6
30°-40°	2457.6	16.5
40°-50°	3794.2	25.5
50°-60°	3814.4	25.6
60°-70°	1956.1	13.1
70°-80°	212.0	1.4
80°-90°	22.2	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°	14876.0	100.0
0°-180°	14876.0	100.0

Coefficient of Utilization



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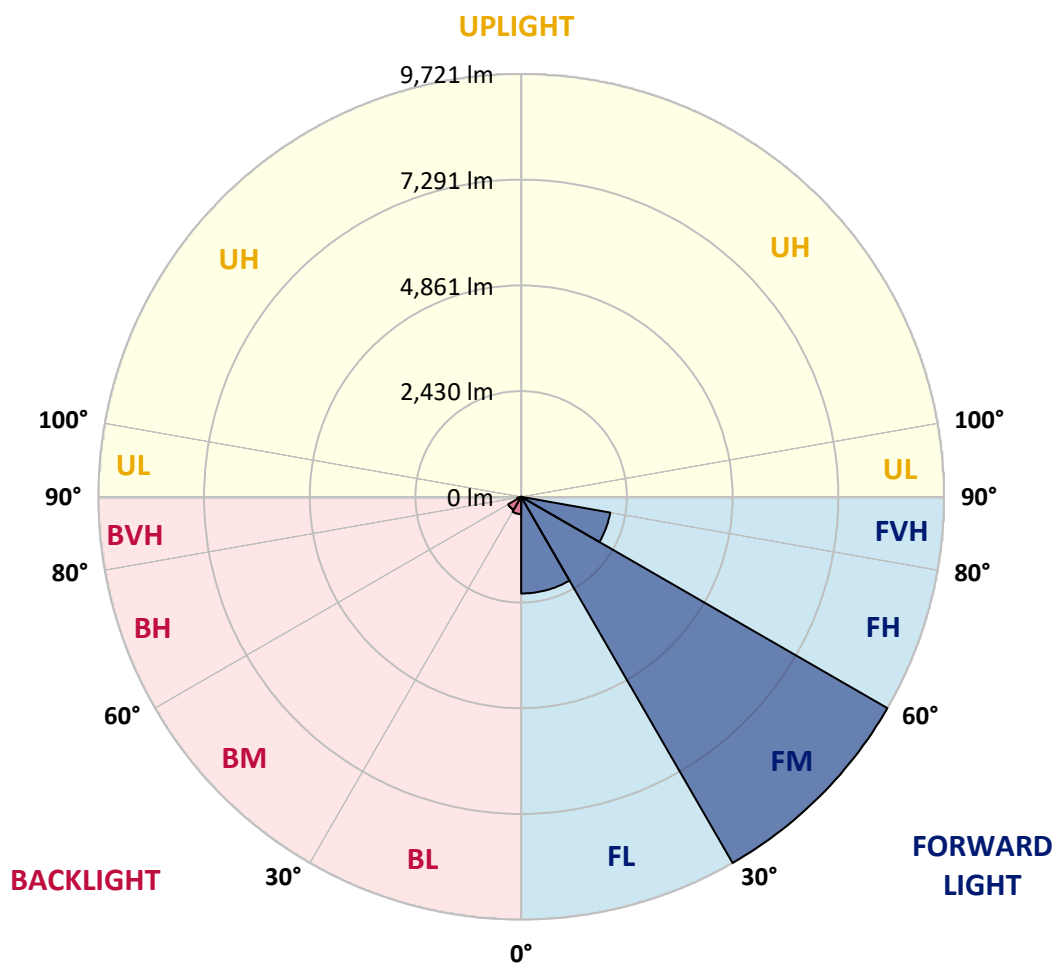
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2223.0	14.9			
FM	(30°-60°)	9721.4	65.3			
FH	(60°-80°)	2079.0	14.0			G2/5000
FVH	(80°-90°)	21.7	0.1			G1/100
BL	(0°-30°)	396.6	2.7	B1/500		
BM	(30°-60°)	344.8	2.3	B1/1000		
BH	(60°-80°)	89.0	0.6	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4187.5	4187.5	4187.5	4187.5	4187.5	4187.5	4187.5	4187.5	4187.5	4187.5	4187.5
2.5°	4954.8	4902.1	4886.3	4875.8	4827.5	4766.9	4684.4	4645.8	4566.8	4439.5	4283.2
5°	5408.7	5399.0	5363.9	5344.6	5292.8	5206.8	5075.1	5011.9	4886.3	4672.1	4392.1
7.5°	5210.3	5270.9	5319.1	5399.9	5501.7	5498.2	5387.6	5321.8	5181.3	4898.6	4513.2
10°	4443.9	4493.0	4572.1	4755.5	5129.5	5459.6	5589.5	5542.1	5429.8	5106.7	4630.0
12.5°	4293.8	4288.5	4302.5	4356.1	4551.9	5022.4	5555.3	5651.0	5628.2	5297.2	4740.6
15°	4373.7	4367.5	4365.8	4384.2	4431.6	4630.0	5298.1	5572.9	5749.3	5473.7	4834.5
17.5°	4597.5	4571.2	4557.1	4542.2	4528.2	4577.3	4989.1	5354.3	5767.7	5628.2	4912.7
20°	4981.2	4937.3	4885.5	4801.2	4722.2	4697.6	4859.1	5129.5	5701.9	5745.8	4963.6
22.5°	5463.1	5406.9	5317.4	5163.8	5003.1	4910.0	4923.2	5058.4	5603.6	5874.0	4987.3
25°	6004.8	5932.8	5813.4	5600.1	5363.9	5198.9	5112.8	5160.2	5558.8	6024.1	5014.5
27.5°	6585.1	6505.2	6348.9	6058.3	5790.6	5567.6	5392.0	5385.9	5635.2	6220.7	5058.4
30°	7160.1	7147.8	6944.1	6636.9	6282.2	6010.9	5758.1	5725.6	5848.5	6492.9	5145.3
32.5°	7927.4	7835.2	7585.9	7269.8	6860.7	6535.0	6235.7	6160.2	6176.0	6809.8	5279.6
35°	8894.8	8793.8	8442.7	8006.4	7549.0	7164.5	6833.5	6730.8	6692.2	7328.6	5506.1
37.5°	9519.9	9518.1	9297.7	8853.5	8362.8	7938.8	7578.8	7458.6	7380.4	7955.4	5857.3
40°	9536.5	9577.8	9606.8	9602.4	9253.0	8862.3	8542.8	8394.4	8212.7	8793.0	6311.2
42.5°	9024.7	9130.9	9386.4	9820.1	10027.3	9871.9	9602.4	9456.6	9186.3	9689.3	6864.2
45°	8332.9	8406.7	8853.5	9652.4	10446.9	10872.7	10667.3	10406.5	10050.1	10624.2	7360.2
47.5°	8023.0	8036.2	8325.0	9202.1	10478.5	11692.6	11817.3	11393.3	10834.9	11377.5	7748.3
50°	7096.9	7120.6	7519.1	8421.6	10108.0	12079.8	12972.6	12570.5	11690.9	11957.8	7889.6
52.5°	5349.0	5382.4	5888.0	7139.0	9089.7	11914.7	13799.6	13702.1	12628.5	12241.3	7897.5
55°	3156.0	3199.9	3682.8	4805.6	7149.5	10864.8	13861.0	14219.2	13368.5	12409.0	7885.2
57.5°	1474.0	1504.7	1781.2	2475.7	4446.5	8586.7	12935.7	13864.5	13776.7	12497.7	7972.1
60°	783.1	791.9	858.6	1071.9	2009.5	5444.7	11129.9	12519.6	13404.5	12620.6	8078.4
62.5°	598.7	601.4	597.8	623.3	844.5	2416.8	8412.8	10292.4	11906.0	12528.4	7960.7
65°	518.8	523.2	498.6	492.5	541.7	862.1	4997.8	7336.5	9355.7	11284.4	7159.2
67.5°	465.3	467.0	437.2	411.7	420.5	466.2	1971.7	4016.4	6192.6	8271.5	5189.2
70°	428.4	426.7	394.2	353.8	342.4	318.7	626.8	1472.2	2959.4	4194.6	2413.3
72.5°	379.2	380.1	364.3	311.7	284.4	223.0	290.6	429.3	883.2	1143.0	565.4
75°	336.2	331.8	312.5	279.2	234.4	146.6	144.0	191.4	272.1	270.4	122.0
77.5°	243.2	238.8	244.9	229.1	180.0	94.8	72.0	92.2	110.6	107.1	34.2
80°	178.2	175.6	158.0	190.5	158.9	65.0	44.8	49.2	57.1	48.3	10.5
82.5°	122.0	121.1	111.5	105.3	90.4	39.5	28.1	30.7	36.9	27.2	5.3
85°	19.3	21.9	80.8	64.1	53.6	17.6	19.3	21.1	24.6	14.9	1.8
87.5°	0.0	0.0	37.7	33.4	10.5	7.0	11.4	12.3	12.3	7.9	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°	4187.5	4187.5	4187.5	4187.5	4187.5	4187.5	4187.5	4187.5	4187.5	4187.5	4187.5
2.5°	4203.3	4115.6	3953.1	3785.5	3630.1	3444.8	3317.6	3221.9	3111.2	3081.4	3146.4
5°	4232.3	4066.4	3717.0	3336.9	2979.6	2583.6	2280.8	2041.1	1824.3	1750.5	1817.2
7.5°	4278.0	4031.3	3461.5	2835.6	2214.0	1596.0	1172.9	894.6	717.2	664.6	692.7
10°	4323.6	3980.4	3165.7	2242.1	1392.3	776.9	505.7	403.8	366.1	358.2	362.6
12.5°	4361.4	3911.9	2804.9	1594.3	744.5	416.1	331.0	314.3	309.0	309.0	310.8
15°	4384.2	3808.3	2377.3	1014.0	428.4	314.3	288.8	283.6	283.6	284.4	286.2
17.5°	4381.6	3676.6	1909.4	613.6	320.4	278.3	263.4	259.0	258.1	259.9	260.7
20°	4349.1	3504.5	1439.7	404.7	279.2	253.7	238.8	230.9	230.0	231.8	233.5
22.5°	4287.6	3292.1	1029.8	311.7	252.0	230.0	211.6	204.5	204.5	206.3	208.1
25°	4213.0	3032.2	704.1	264.2	227.4	204.5	187.0	180.8	182.6	187.0	187.9
27.5°	4119.9	2739.9	478.5	226.5	197.5	179.1	165.9	161.5	165.9	172.1	173.8
30°	4040.1	2435.3	341.5	195.8	167.7	154.5	146.6	146.6	152.8	164.2	166.8
32.5°	3978.6	2140.3	263.4	172.9	145.7	134.3	129.9	134.3	144.0	155.4	158.0
35°	3970.7	1897.1	223.0	154.5	129.9	118.5	116.8	124.7	134.3	143.1	144.9
37.5°	4031.3	1672.4	201.0	139.6	115.9	105.3	103.6	113.2	122.9	133.4	136.1
40°	4146.3	1495.9	185.2	125.5	104.5	93.1	89.5	96.6	109.7	123.8	127.3
42.5°	4295.5	1350.2	167.7	111.5	93.1	77.3	72.9	80.8	94.8	109.7	114.1
45°	4437.7	1224.7	148.4	95.7	78.1	59.7	57.9	68.5	75.5	90.4	93.9
47.5°	4515.9	1114.0	131.7	78.1	60.6	48.3	48.3	50.9	57.9	75.5	79.0
50°	4489.5	1025.4	114.1	57.9	42.1	36.9	36.9	36.0	46.5	60.6	63.2
52.5°	4436.9	974.5	98.3	44.8	29.0	26.3	23.7	26.3	32.5	38.6	39.5
55°	4429.0	965.7	82.5	36.0	20.2	17.6	13.2	13.2	13.2	12.3	10.5
57.5°	4490.4	979.7	69.4	29.0	14.9	11.4	7.0	0.0	0.0	0.0	0.0
60°	4553.6	994.7	59.7	20.2	10.5	6.1	0.9	0.0	0.0	0.0	0.0
62.5°	4448.3	961.3	50.0	12.3	7.9	2.6	0.0	0.0	0.0	0.0	0.0
65°	3907.5	818.2	39.5	8.8	5.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2779.4	547.8	26.3	5.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	1268.6	229.1	16.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	271.3	71.1	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	55.3	51.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	17.6	81.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	10.5	58.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.8	8.8	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)