

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: P192945

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-SL4-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26701.9 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 295
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

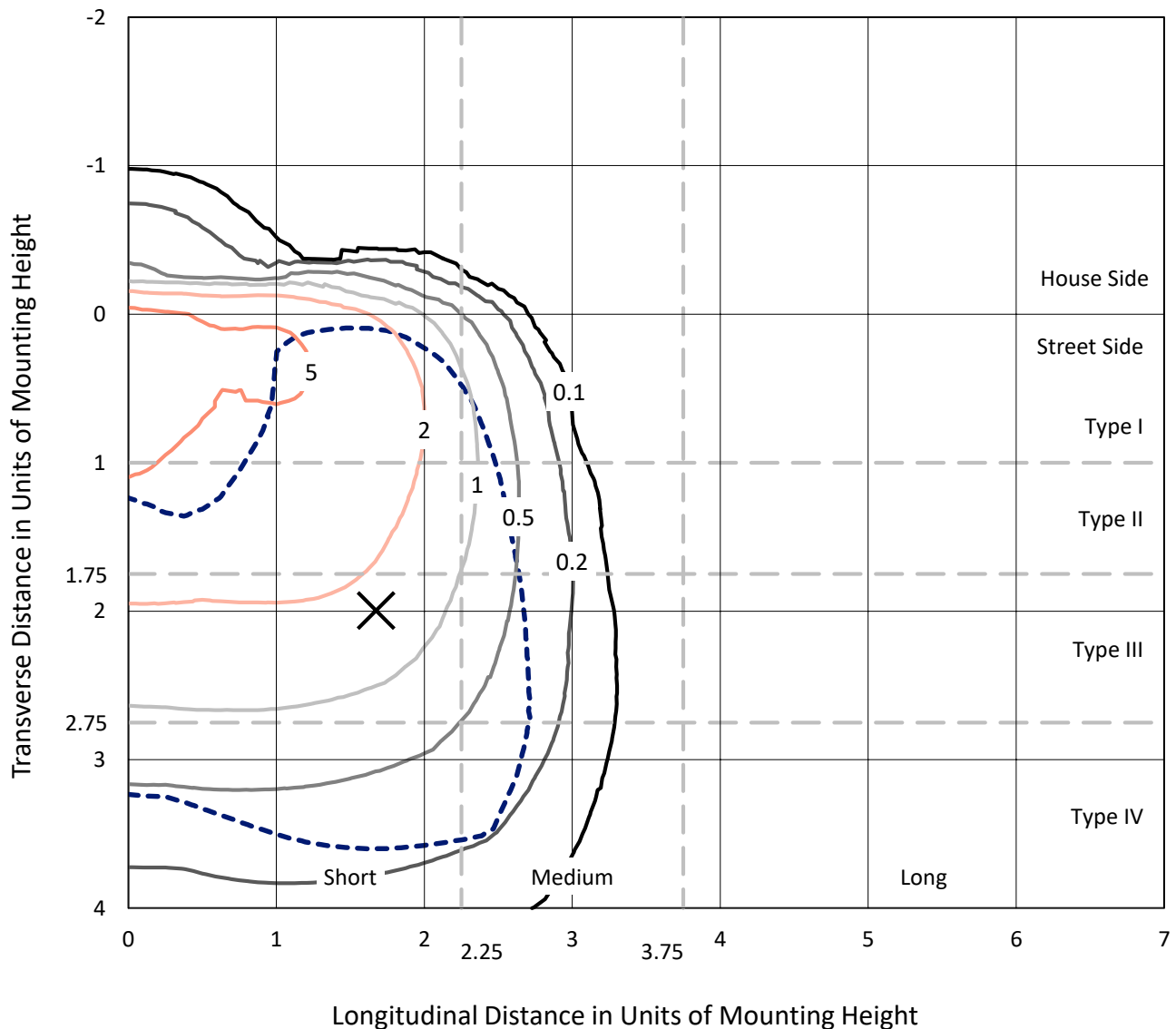


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

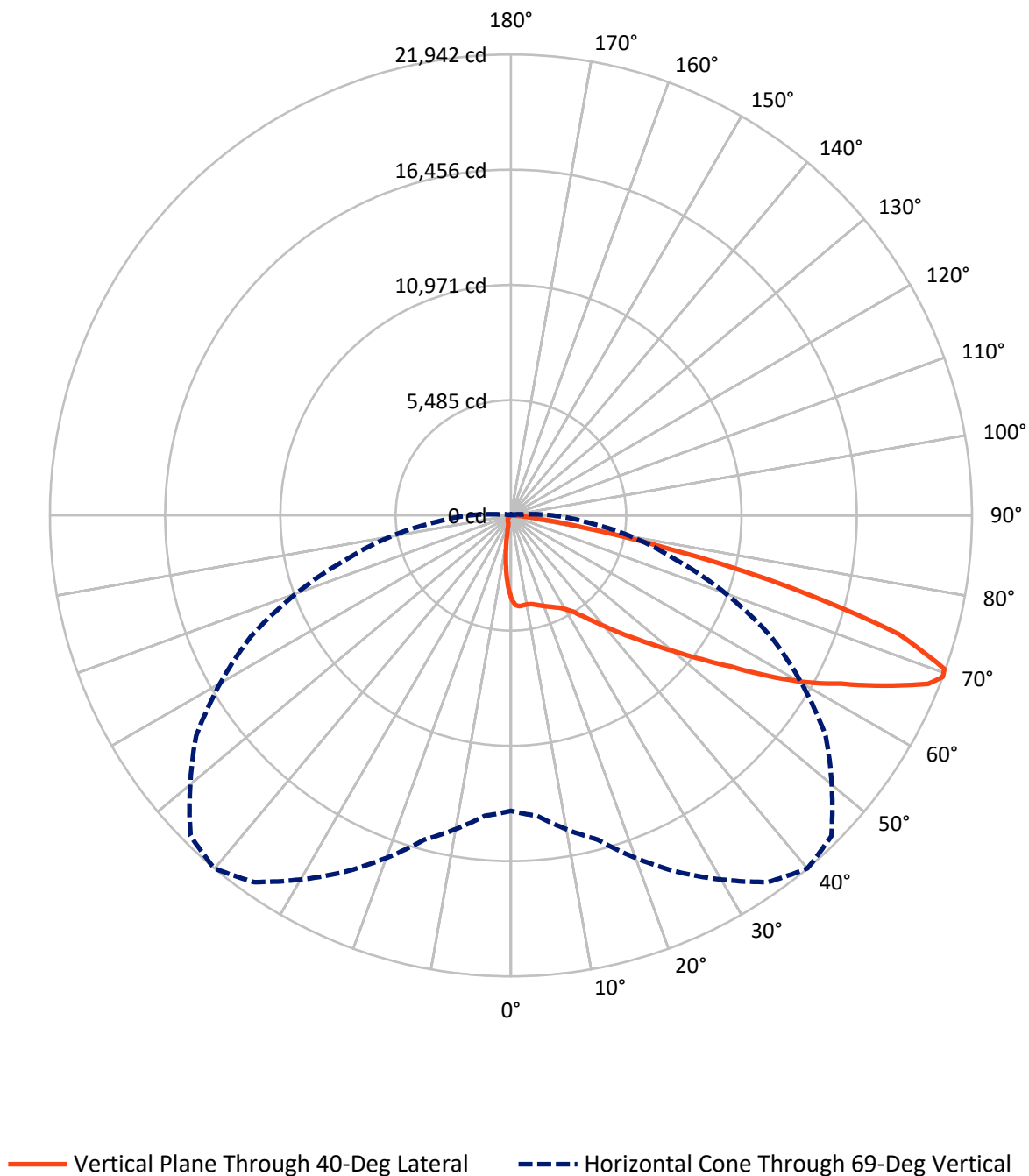


Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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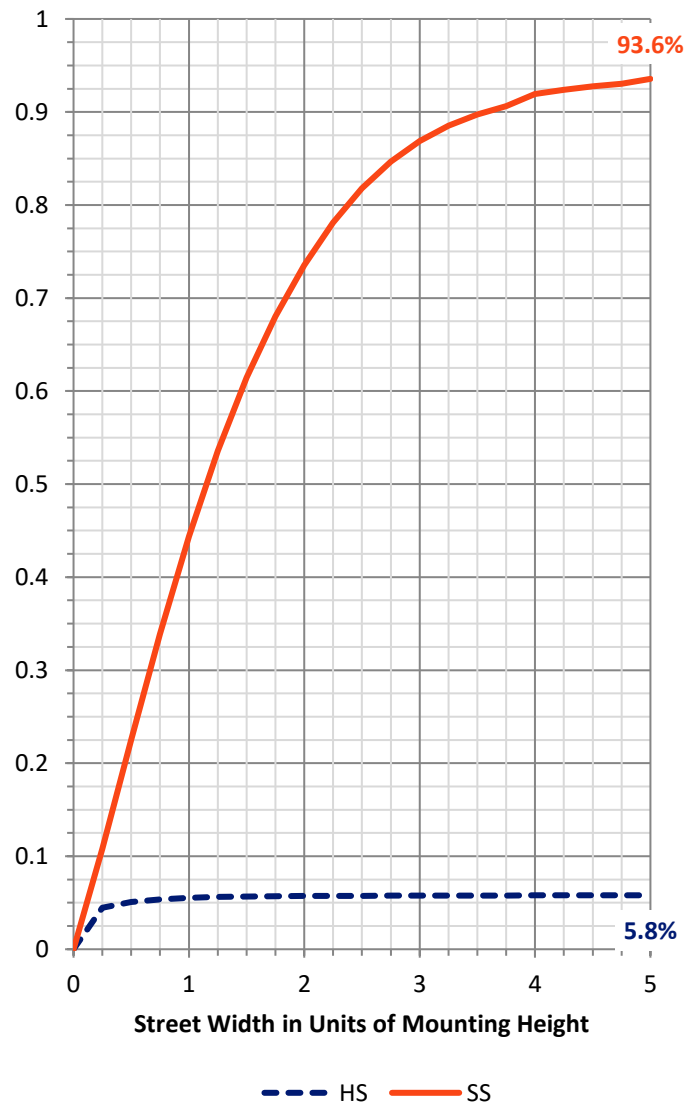
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1562.2	0.0	1562.2
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	25139.7	0.0	25139.7
	% Fixture	94.1	0.0	94.1
Total	Lumens	26701.9	0.0	26701.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.5	1.2
10°-20°	795.4	3.0
20°-30°	1339.8	5.0
30°-40°	2193.3	8.2
40°-50°	3797.7	14.2
50°-60°	5981.7	22.4
60°-70°	7811.9	29.3
70°-80°	4023.4	15.1
80°-90°	435.2	1.6
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°	26701.9	100.0
0°-180°	26701.9	100.0

Coefficient of Utilization



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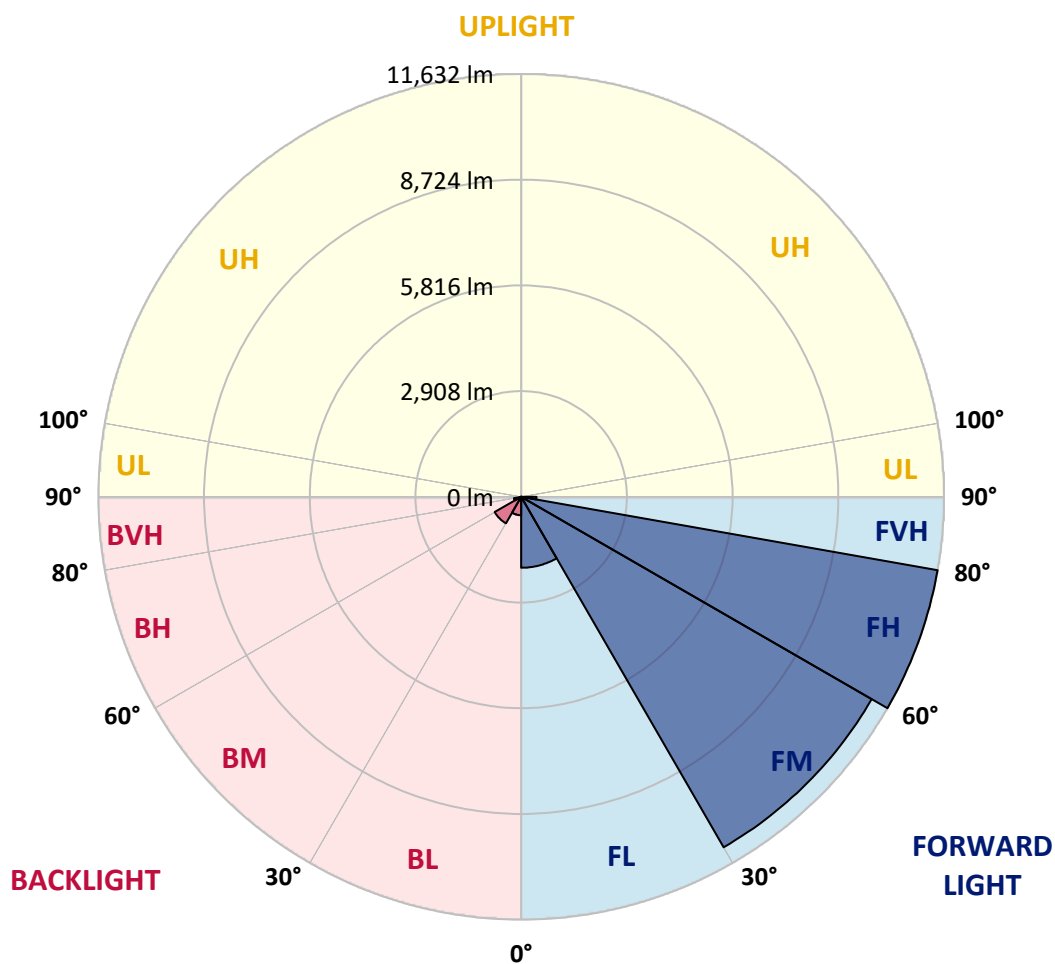
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1952.7	7.3			
FM	(30°-60°)	11133.0	41.7			
FH	(60°-80°)	11632.4	43.6			G4/12000
FVH	(80°-90°)	421.6	1.6			G3/500
BL	(0°-30°)	506.0	1.9	B2/1000		
BM	(30°-60°)	839.6	3.1	B1/1000		
BH	(60°-80°)	202.9	0.8	B1/500		G1/500
BVH	(80°-90°)	13.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3989.4	3989.4	3989.4	3989.4	3989.4	3989.4	3989.4	3989.4	3989.4	3989.4	3989.4
2.5°	4380.4	4356.5	4342.3	4323.2	4299.4	4278.7	4270.7	4212.0	4156.3	4080.0	3992.6
5°	4461.5	4453.5	4428.1	4402.6	4374.0	4342.3	4324.8	4254.8	4175.4	4064.1	3911.5
7.5°	4469.4	4459.9	4428.1	4393.1	4353.3	4315.2	4285.0	4215.1	4142.0	4029.2	3843.2
10°	4456.6	4445.5	4421.7	4383.6	4334.4	4297.7	4267.5	4200.8	4138.8	4037.1	3830.4
12.5°	4442.4	4431.2	4420.1	4401.1	4358.2	4332.6	4307.3	4243.7	4188.1	4102.2	3876.5
15°	4456.6	4450.3	4463.0	4455.0	4431.2	4409.0	4383.6	4326.3	4275.6	4204.0	3960.7
17.5°	4517.1	4517.1	4556.7	4561.6	4539.2	4507.5	4471.0	4413.7	4370.8	4310.5	4060.9
20°	4658.5	4653.8	4704.6	4714.2	4660.1	4610.8	4556.7	4486.8	4453.5	4415.3	4159.5
22.5°	4901.7	4879.4	4909.7	4900.2	4793.6	4717.4	4650.6	4564.8	4547.3	4529.8	4269.1
25°	5218.0	5205.3	5226.0	5132.1	4944.6	4841.3	4761.8	4665.0	4665.0	4682.5	4393.1
27.5°	5677.3	5629.7	5559.7	5394.4	5113.2	4981.1	4895.4	4792.0	4819.1	4884.2	4556.7
30°	6147.8	6095.3	5934.9	5680.5	5318.0	5179.9	5079.7	4971.7	5035.2	5154.5	4776.2
32.5°	6612.0	6553.2	6325.8	6004.8	5612.2	5473.9	5376.9	5257.8	5364.2	5564.5	5097.2
35°	7061.8	7009.3	6747.0	6368.7	6003.1	5888.7	5799.7	5696.4	5833.2	6112.8	5550.2
37.5°	7567.2	7509.9	7190.5	6780.4	6478.4	6395.7	6330.6	6227.2	6465.6	6875.8	6181.3
40°	8188.6	8091.6	7660.9	7252.4	7028.3	6988.6	6944.1	6929.8	7300.1	7867.5	7022.0
42.5°	8900.7	8741.8	8153.6	7749.9	7632.3	7660.9	7649.8	7713.3	8344.3	9100.9	8045.6
45°	9612.7	9407.7	8702.0	8280.8	8296.7	8396.8	8458.8	8713.1	9652.4	10515.4	9146.9
47.5°	10216.8	10014.8	9228.0	8854.6	9045.2	9242.4	9410.8	9892.5	10997.1	11907.8	10003.7
50°	10733.2	10542.5	9786.0	9485.6	9914.7	10232.5	10506.0	11219.7	12443.4	12967.9	10604.4
52.5°	11156.0	11028.8	10364.5	10208.7	10908.0	11373.8	11774.4	12629.4	13724.5	13829.4	11071.8
55°	11567.8	11477.0	10985.9	11068.6	12074.7	12708.8	13215.9	14125.0	14827.6	14547.8	11520.0
57.5°	12041.4	11958.7	11694.8	12158.9	13608.5	14406.4	14959.4	15450.6	15798.7	15282.1	11942.8
60°	12524.5	12476.8	12483.2	13370.0	15369.5	16135.6	16440.8	16568.0	16752.2	15973.4	11966.6
62.5°	12985.4	13076.0	13384.4	14717.9	17055.9	17644.0	17798.2	17923.7	17707.5	16083.2	11055.8
65°	13765.8	13913.6	14649.5	16521.8	18910.7	19540.2	19699.0	19268.3	17858.5	14665.5	8992.8
67.5°	14147.2	14417.5	15730.3	18203.3	20709.9	21409.3	21350.5	19355.8	16025.9	11183.0	5771.1
69°	14067.7	14355.5	15979.8	18718.4	21307.5	21941.7	21568.3	18286.0	13652.9	8101.1	3542.7
70°	13753.1	14043.9	15851.2	18699.2	21383.7	21886.0	21164.5	16965.2	11543.8	5923.7	2215.7
72.5°	11485.0	11736.1	14072.6	16901.7	19699.0	19290.6	17705.9	11753.7	5624.8	1613.2	499.1
75°	7069.6	7209.5	10097.4	12732.7	14878.4	13829.4	11796.5	5847.4	1676.8	456.1	276.5
77.5°	3735.1	3798.6	5528.0	7505.1	9431.5	7804.0	6046.1	2280.8	772.5	286.0	200.3
80°	2207.7	2255.3	2977.0	3431.5	4081.6	3409.2	2417.5	1400.2	553.1	179.6	178.0
82.5°	1263.6	1293.7	2158.4	1907.2	1608.6	1373.3	1203.2	1327.2	332.1	120.8	184.3
85°	464.2	470.5	1214.3	1451.1	956.8	569.0	597.6	1099.9	89.0	76.3	144.7
87.5°	216.2	211.4	624.6	888.5	559.5	360.8	465.7	241.6	35.0	49.2	39.8
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°	3989.4	3989.4	3989.4	3989.4	3989.4	3989.4	3989.4	3989.4	3989.4	3989.4	3989.4
2.5°	3941.7	3882.8	3776.4	3666.7	3555.6	3469.6	3385.4	3318.6	3296.5	3255.1	3258.2
5°	3820.9	3712.8	3490.3	3264.6	3029.4	2835.5	2652.7	2504.9	2433.4	2360.2	2360.2
7.5°	3716.0	3558.7	3210.6	2843.5	2463.6	2144.1	1856.5	1640.3	1521.1	1425.8	1424.0
10°	3676.2	3463.3	2977.0	2450.9	1921.6	1486.2	1144.4	925.0	812.3	739.0	735.9
12.5°	3693.7	3429.9	2797.4	2088.5	1424.0	955.3	662.7	521.2	473.6	451.4	451.4
15°	3744.7	3420.4	2617.8	1734.1	1006.1	597.6	440.4	402.1	398.9	398.9	398.9
17.5°	3806.6	3423.5	2433.4	1389.1	685.0	427.5	379.9	375.1	378.2	378.2	378.2
20°	3870.2	3425.2	2234.7	1069.6	483.2	371.9	357.6	356.0	359.3	359.3	360.8
22.5°	3948.1	3433.2	2036.0	799.4	398.9	351.3	340.2	340.2	341.8	341.8	340.2
25°	4037.1	3449.0	1829.4	592.8	364.0	336.9	327.4	325.8	327.4	325.8	324.3
27.5°	4148.3	3471.2	1598.9	464.2	348.1	322.7	314.6	314.6	313.1	311.5	310.0
30°	4288.2	3496.8	1339.8	394.2	332.1	310.0	302.0	300.4	298.9	295.6	295.6
32.5°	4501.2	3552.3	1084.0	357.6	314.6	292.5	286.0	286.0	282.9	279.7	278.2
35°	4828.6	3662.0	855.1	335.3	295.6	273.3	265.4	265.4	262.2	260.7	259.1
37.5°	5281.6	3828.9	664.4	314.6	276.5	252.7	244.7	243.2	240.1	236.9	235.2
40°	5883.9	4035.5	523.0	295.6	257.6	232.0	225.7	222.6	216.2	211.4	211.4
42.5°	6640.6	4270.7	424.4	275.0	235.2	212.9	208.2	203.4	192.3	187.6	186.0
45°	7432.1	4482.2	359.3	251.1	212.9	193.9	190.7	182.8	168.5	163.7	163.7
47.5°	8002.5	4531.4	316.3	228.9	192.3	173.2	171.6	157.4	144.7	141.5	139.9
50°	8358.7	4434.4	281.4	206.6	173.2	154.2	149.3	131.8	124.0	120.8	119.2
52.5°	8598.7	4261.2	252.7	187.6	155.8	136.7	125.5	112.9	106.5	103.4	103.4
55°	8791.0	4016.4	224.1	170.1	141.5	122.4	106.5	96.9	90.5	87.4	87.4
57.5°	8845.0	3684.2	195.5	155.8	127.2	108.0	90.5	84.2	76.3	74.8	74.8
60°	8452.4	3085.1	173.2	138.3	114.4	93.8	79.4	71.6	63.6	62.0	60.4
62.5°	7417.7	2387.4	152.6	122.4	100.1	81.1	68.4	58.8	52.5	52.5	52.5
65°	5658.3	1600.5	133.6	106.5	87.4	68.4	58.8	47.6	44.5	44.5	46.1
67.5°	3387.0	871.1	114.4	90.5	74.8	57.3	49.2	41.3	39.8	41.3	41.3
69°	1985.1	511.8	103.4	81.1	65.1	51.0	42.9	36.6	39.8	41.3	41.3
70°	1225.5	344.9	95.4	73.1	58.8	46.1	39.8	35.0	38.1	39.8	39.8
72.5°	341.8	178.0	76.3	57.3	47.6	38.1	31.8	31.8	36.6	38.1	38.1
75°	222.6	131.8	58.8	42.9	36.6	30.1	27.0	30.1	35.0	36.6	36.6
77.5°	184.3	108.0	47.6	35.0	30.1	28.6	25.4	27.0	31.8	33.4	33.4
80°	168.5	76.3	38.1	31.8	27.0	25.4	23.8	22.3	28.6	30.1	30.1
82.5°	160.5	60.4	33.4	28.6	25.4	22.3	20.6	22.3	25.4	27.0	28.6
85°	100.1	39.8	30.1	27.0	22.3	20.6	20.6	20.6	23.8	25.4	25.4
87.5°	36.6	31.8	27.0	22.3	19.1	19.1	19.1	19.1	20.6	23.8	23.8
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)