

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: P194565

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-7060-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194565
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-SL4-7060-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1200mA 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: 37485 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 448
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



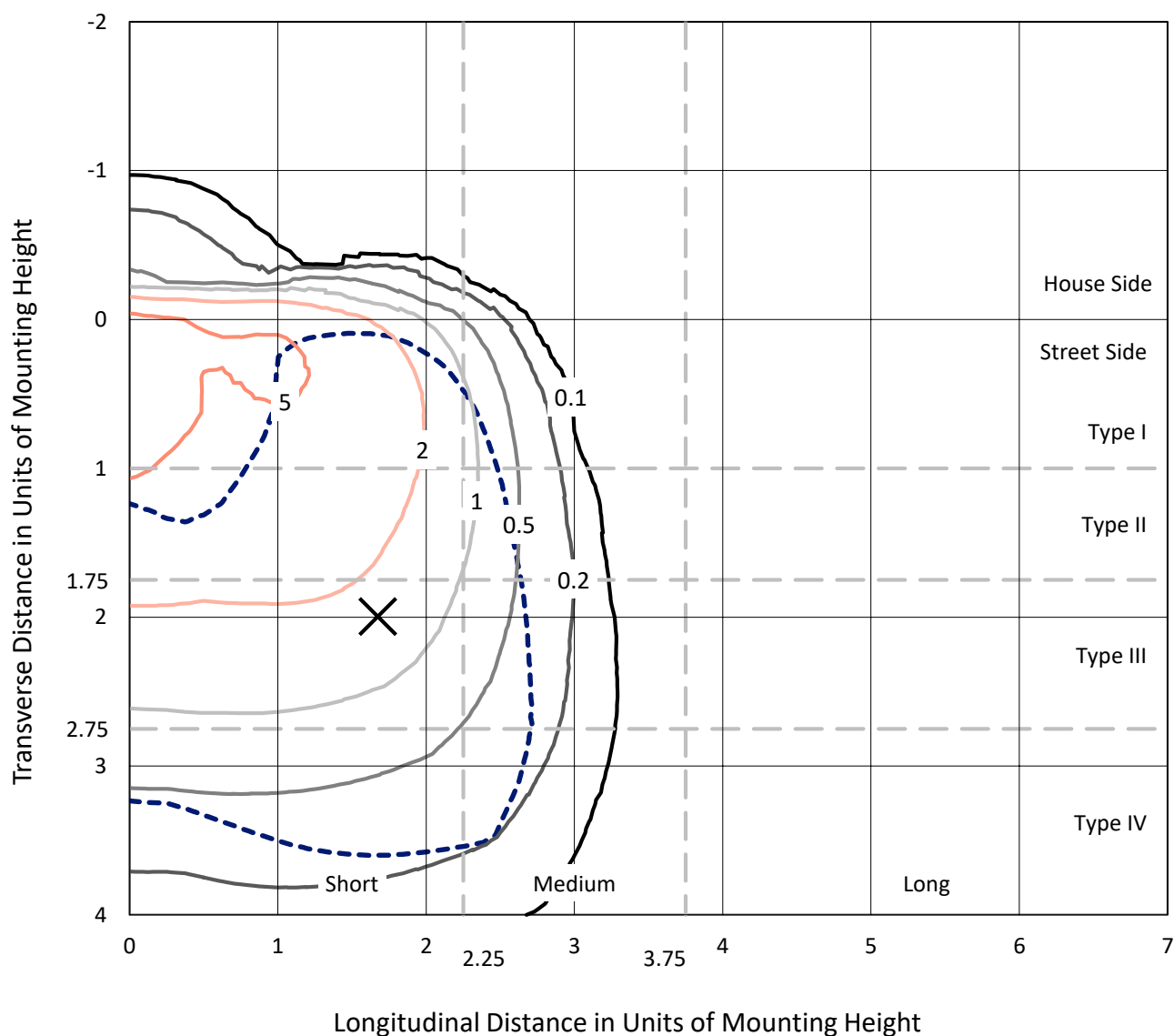
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

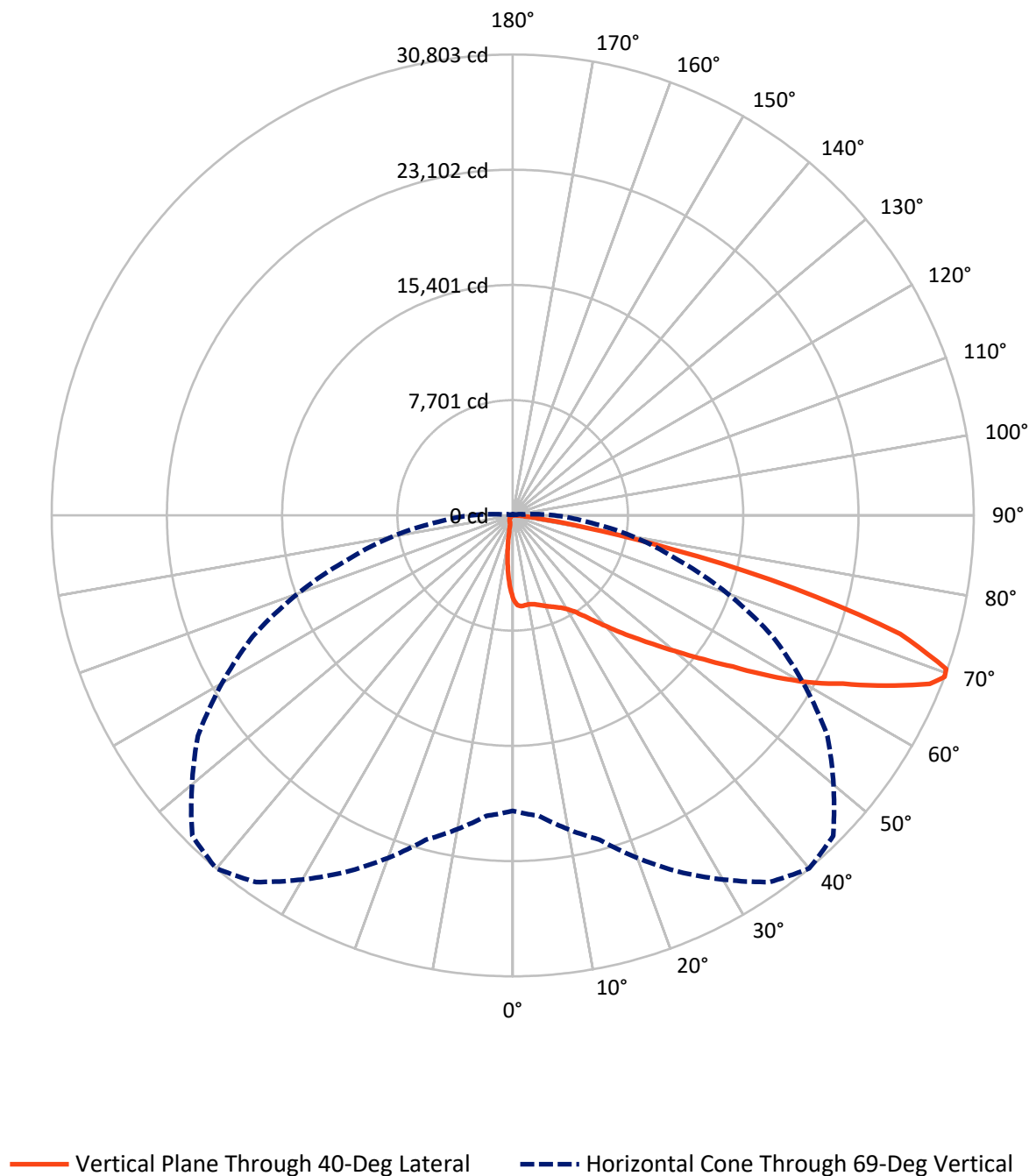


Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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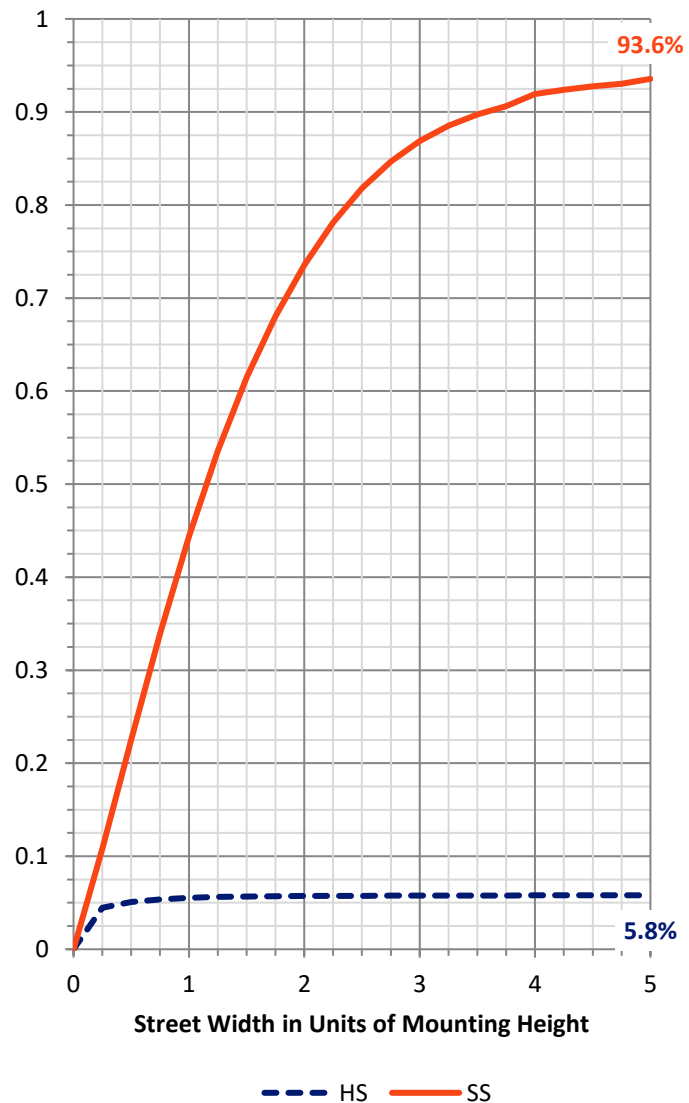
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2193.1	0.0	2193.1
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	35291.9	0.0	35291.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	37485.0	0.0	37485.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.1	1.2
10°-20°	1116.7	3.0
20°-30°	1880.9	5.0
30°-40°	3079.0	8.2
40°-50°	5331.3	14.2
50°-60°	8397.3	22.4
60°-70°	10966.5	29.3
70°-80°	5648.2	15.1
80°-90°	611.0	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°	37485.0	100.0
0°-180°	37485.0	100.0

Coefficient of Utilization



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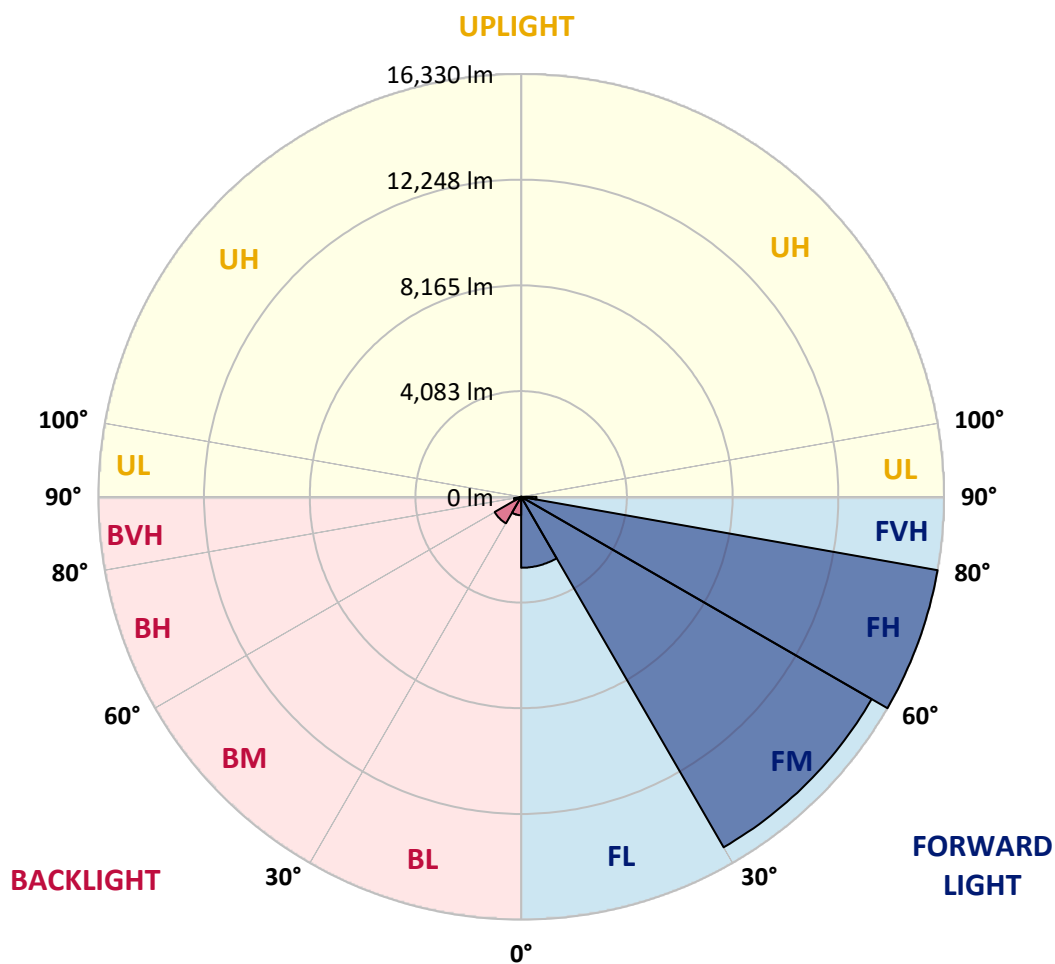
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2741.2	7.3			
FM	(30°-60°)	15628.9	41.7			
FH	(60°-80°)	16330.0	43.6			G5
FVH	(80°-90°)	591.8	1.6			G4/750
BL	(0°-30°)	710.4	1.9	B2/1000		
BM	(30°-60°)	1178.7	3.1	B2/2500		
BH	(60°-80°)	284.8	0.8	B1/500		G1/500
BVH	(80°-90°)	19.2	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5
2.5°	6149.3	6115.9	6095.8	6069.0	6035.5	6006.5	5995.4	5912.8	5834.7	5727.6	5604.9
5°	6263.1	6252.0	6216.3	6180.6	6140.4	6095.8	6071.2	5973.1	5861.5	5705.3	5491.1
7.5°	6274.3	6260.9	6216.3	6167.2	6111.4	6057.9	6015.5	5917.3	5814.7	5656.2	5395.2
10°	6256.4	6240.8	6207.4	6153.8	6084.6	6033.3	5990.9	5897.2	5810.2	5667.4	5377.3
12.5°	6236.4	6220.7	6205.1	6178.3	6118.1	6082.4	6046.7	5957.5	5879.4	5758.9	5442.0
15°	6256.4	6247.5	6265.4	6254.2	6220.7	6189.5	6153.8	6073.5	6002.1	5901.7	5560.3
17.5°	6341.2	6341.2	6397.0	6403.7	6372.5	6327.8	6276.5	6196.2	6136.0	6051.2	5700.9
20°	6539.8	6533.1	6604.5	6617.9	6542.0	6472.9	6397.0	6298.8	6252.0	6198.4	5839.2
22.5°	6881.2	6850.0	6892.3	6879.0	6729.5	6622.4	6528.7	6408.2	6383.6	6359.1	5993.2
25°	7325.2	7307.4	7336.4	7204.7	6941.4	6796.4	6684.8	6548.7	6548.7	6573.3	6167.2
27.5°	7970.0	7903.1	7804.9	7572.9	7177.9	6992.8	6872.3	6727.2	6765.2	6856.6	6397.0
30°	8630.5	8556.9	8331.5	7974.5	7465.8	7271.7	7131.1	6979.4	7068.6	7236.0	6704.9
32.5°	9282.0	9199.5	8880.4	8429.7	7878.6	7684.4	7548.3	7381.0	7530.5	7811.6	7155.6
35°	9913.5	9839.8	9471.7	8940.6	8427.5	8266.8	8141.9	7996.8	8188.7	8581.4	7791.5
37.5°	10623.0	10542.7	10094.2	9518.5	9094.6	8978.6	8887.1	8742.1	9076.7	9652.4	8677.4
40°	11495.4	11359.3	10754.7	10181.2	9866.6	9810.8	9748.4	9728.3	10248.2	11044.7	9857.7
42.5°	12495.0	12271.9	11446.3	10879.6	10714.5	10754.7	10739.0	10828.3	11714.1	12776.2	11294.6
45°	13494.6	13206.8	12216.1	11624.8	11647.2	11787.7	11874.7	12231.7	13550.4	14762.0	12840.9
47.5°	14342.5	14059.1	12954.7	12430.3	12698.1	12974.8	13211.3	13887.3	15438.1	16716.6	14043.5
50°	15067.7	14799.9	13737.8	13316.1	13918.6	14364.8	14748.6	15750.4	17468.5	18204.8	14886.9
52.5°	15661.2	15482.7	14550.0	14331.4	15313.1	15966.9	16529.1	17729.6	19266.9	19414.2	15542.9
55°	16239.1	16111.9	15422.4	15538.5	16950.8	17841.1	18552.9	19829.2	20815.4	20422.7	16172.1
57.5°	16904.0	16788.0	16417.6	17069.1	19104.0	20224.1	21000.6	21690.0	22178.7	21453.5	16765.7
60°	17582.3	17515.4	17524.3	18769.3	21576.2	22651.7	23080.1	23258.6	23517.4	22424.1	16799.1
62.5°	18229.4	18356.5	18789.4	20661.4	23943.6	24769.2	24985.6	25161.9	24858.4	22578.1	15520.6
65°	19324.9	19532.4	20565.5	23193.9	26547.5	27431.1	27654.2	27049.5	25070.4	20587.8	12624.4
67.5°	19860.4	20239.7	22082.7	25554.6	29073.3	30055.0	29972.5	27172.2	22497.8	15699.1	8101.7
69°	19748.8	20152.7	22433.0	26277.5	29912.2	30802.5	30278.1	25670.6	19166.5	11372.7	4973.5
70°	19307.1	19715.4	22252.3	26250.7	30019.3	30724.4	29711.4	23816.4	16205.6	8315.9	3110.4
72.5°	16123.1	16475.6	19755.5	23727.2	27654.2	27080.8	24856.2	16500.1	7896.4	2264.7	700.6
75°	9924.6	10121.0	14175.2	17874.6	20886.8	19414.2	16560.4	8208.8	2354.0	640.4	388.2
77.5°	5243.5	5332.7	7760.3	10536.0	13240.3	10955.5	8487.7	3201.9	1084.4	401.6	281.1
80°	3099.2	3166.2	4179.1	4817.3	5729.9	4786.0	3393.7	1965.7	776.5	252.1	249.9
82.5°	1773.8	1816.2	3030.0	2677.5	2258.0	1927.8	1689.1	1863.1	466.3	169.6	258.8
85°	651.5	660.5	1704.7	2037.1	1343.2	798.8	839.0	1544.0	125.0	107.1	203.0
87.5°	303.5	296.8	876.9	1247.3	785.4	506.5	653.8	339.2	49.1	69.2	55.8
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°	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5
2.5°	5533.5	5451.0	5301.5	5147.5	4991.3	4870.8	4752.6	4658.9	4627.6	4569.6	4574.1
5°	5363.9	5212.2	4899.8	4583.0	4252.8	3980.6	3724.0	3516.5	3416.1	3313.4	3313.4
7.5°	5216.7	4995.8	4507.1	3991.7	3458.4	3010.0	2606.1	2302.7	2135.3	2001.4	1999.2
10°	5160.9	4861.9	4179.1	3440.6	2697.6	2086.2	1606.5	1298.6	1140.2	1037.5	1033.1
12.5°	5185.4	4815.0	3927.0	2931.9	1999.2	1341.0	930.4	731.9	664.9	633.7	633.7
15°	5256.8	4801.7	3674.9	2434.3	1412.4	839.0	618.1	564.5	560.0	560.0	560.0
17.5°	5343.9	4806.1	3416.1	1950.1	961.7	600.2	533.3	526.6	531.0	531.0	531.0
20°	5433.1	4808.4	3137.1	1501.6	678.3	522.1	502.0	499.8	504.3	504.3	506.5
22.5°	5542.4	4819.5	2858.2	1122.3	560.0	493.1	477.5	477.5	479.7	479.7	477.5
25°	5667.4	4841.8	2568.2	832.3	511.0	473.0	459.6	457.4	459.6	457.4	455.2
27.5°	5823.6	4873.1	2244.6	651.5	488.6	452.9	441.8	441.8	439.6	437.3	435.1
30°	6019.9	4908.8	1880.9	553.4	466.3	435.1	423.9	421.7	419.5	415.0	415.0
32.5°	6318.9	4986.9	1521.7	502.0	441.8	410.6	401.6	401.6	397.2	392.7	390.5
35°	6778.6	5140.8	1200.4	470.8	415.0	383.8	372.6	372.6	368.2	365.9	363.7
37.5°	7414.5	5375.1	932.7	441.8	388.2	354.8	343.6	341.4	336.9	332.5	330.2
40°	8260.1	5665.2	734.1	415.0	361.5	325.8	316.8	312.4	303.5	296.8	296.8
42.5°	9322.2	5995.4	595.7	386.0	330.2	299.0	292.3	285.6	270.0	263.3	261.1
45°	10433.4	6292.1	504.3	352.5	299.0	272.2	267.8	256.6	236.5	229.8	229.8
47.5°	11234.4	6361.3	444.0	321.3	270.0	243.2	241.0	220.9	203.0	198.6	196.4
50°	11734.2	6225.2	394.9	290.1	243.2	216.4	209.7	185.2	174.0	169.6	167.3
52.5°	12071.1	5982.0	354.8	263.3	218.7	191.9	176.3	158.4	149.5	145.0	145.0
55°	12341.1	5638.4	314.6	238.7	198.6	171.8	149.5	136.1	127.2	122.7	122.7
57.5°	12416.9	5172.1	274.4	218.7	178.5	151.7	127.2	118.3	107.1	104.9	104.9
60°	11865.8	4330.9	243.2	194.1	160.7	131.6	111.6	100.4	89.3	87.0	84.8
62.5°	10413.3	3351.3	214.2	171.8	140.6	113.8	95.9	82.6	73.6	73.6	73.6
65°	7943.3	2246.9	187.4	149.5	122.7	95.9	82.6	66.9	62.5	62.5	64.7
67.5°	4754.8	1222.7	160.7	127.2	104.9	80.3	69.2	58.0	55.8	58.0	58.0
69°	2786.8	718.5	145.0	113.8	91.5	71.4	60.2	51.3	55.8	58.0	58.0
70°	1720.3	484.2	133.9	102.6	82.6	64.7	55.8	49.1	53.6	55.8	55.8
72.5°	479.7	249.9	107.1	80.3	66.9	53.6	44.6	44.6	51.3	53.6	53.6
75°	312.4	185.2	82.6	60.2	51.3	42.4	37.9	42.4	49.1	51.3	51.3
77.5°	258.8	151.7	66.9	49.1	42.4	40.2	35.7	37.9	44.6	46.9	46.9
80°	236.5	107.1	53.6	44.6	37.9	35.7	33.5	31.2	40.2	42.4	42.4
82.5°	225.4	84.8	46.9	40.2	35.7	31.2	29.0	31.2	35.7	37.9	40.2
85°	140.6	55.8	42.4	37.9	31.2	29.0	29.0	29.0	33.5	35.7	35.7
87.5°	51.3	44.6	37.9	31.2	26.8	26.8	26.8	26.8	29.0	33.5	33.5
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)