

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: P269560

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-SL3-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35407.9 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 445
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

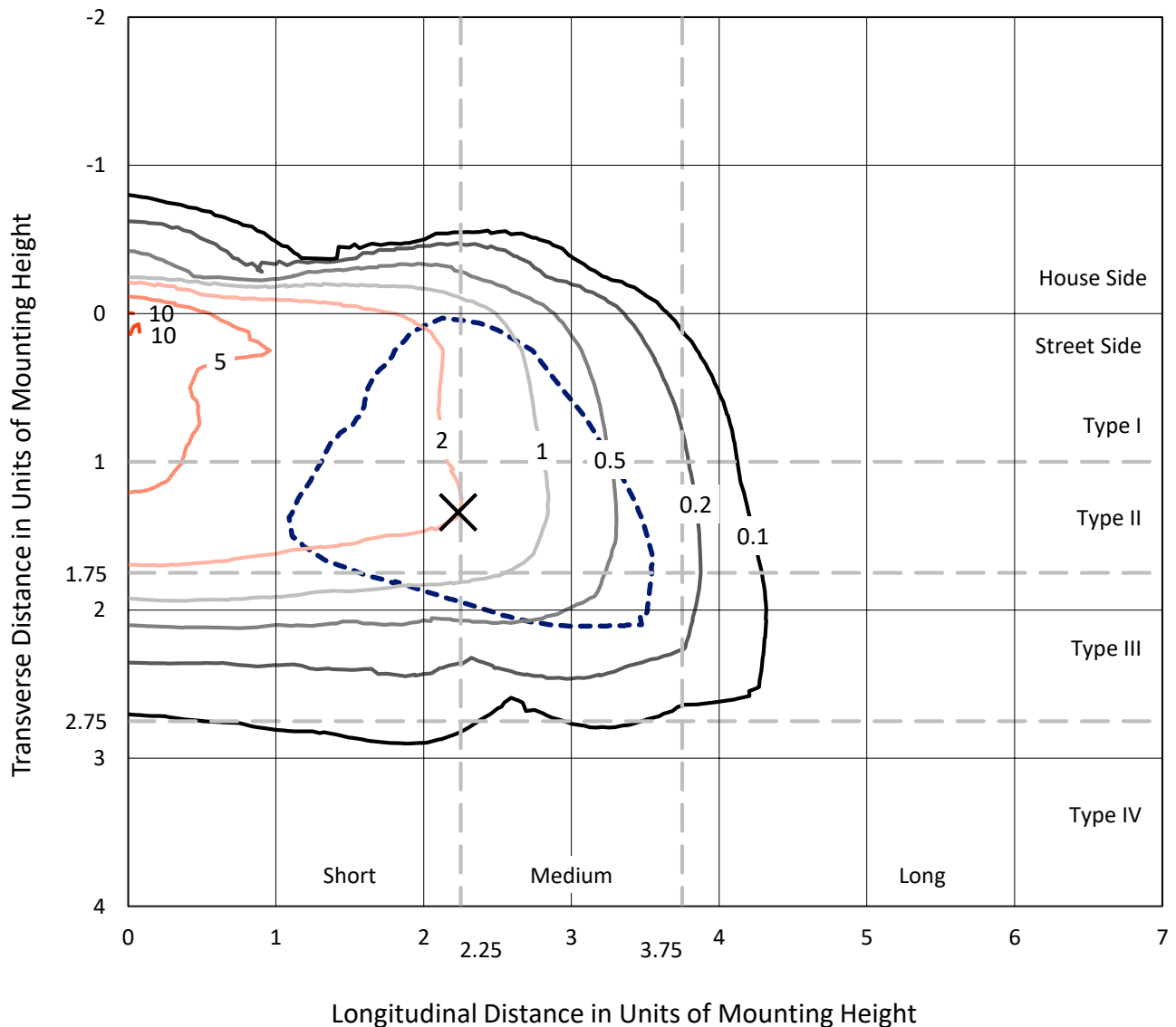


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

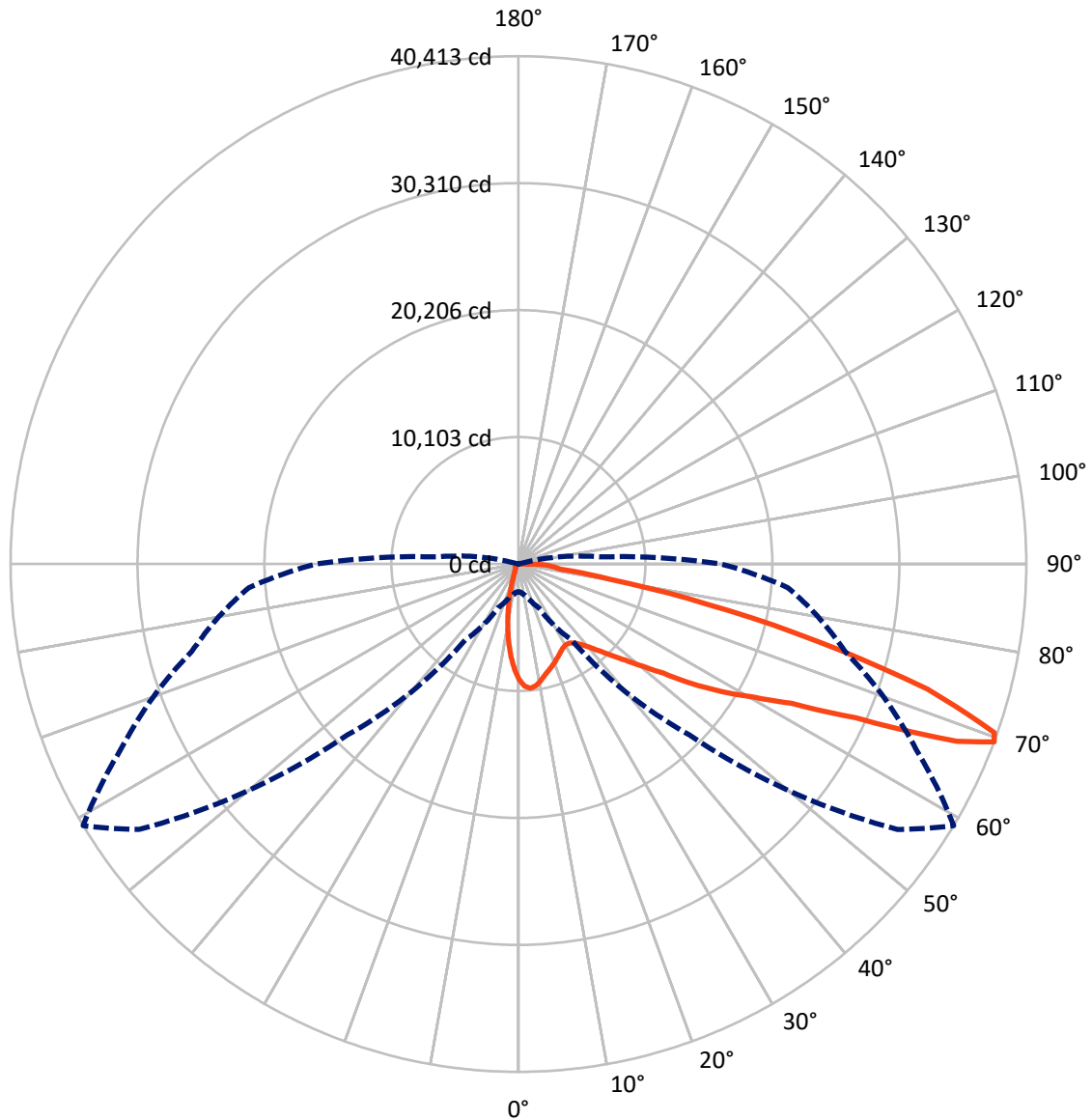


Based on 30 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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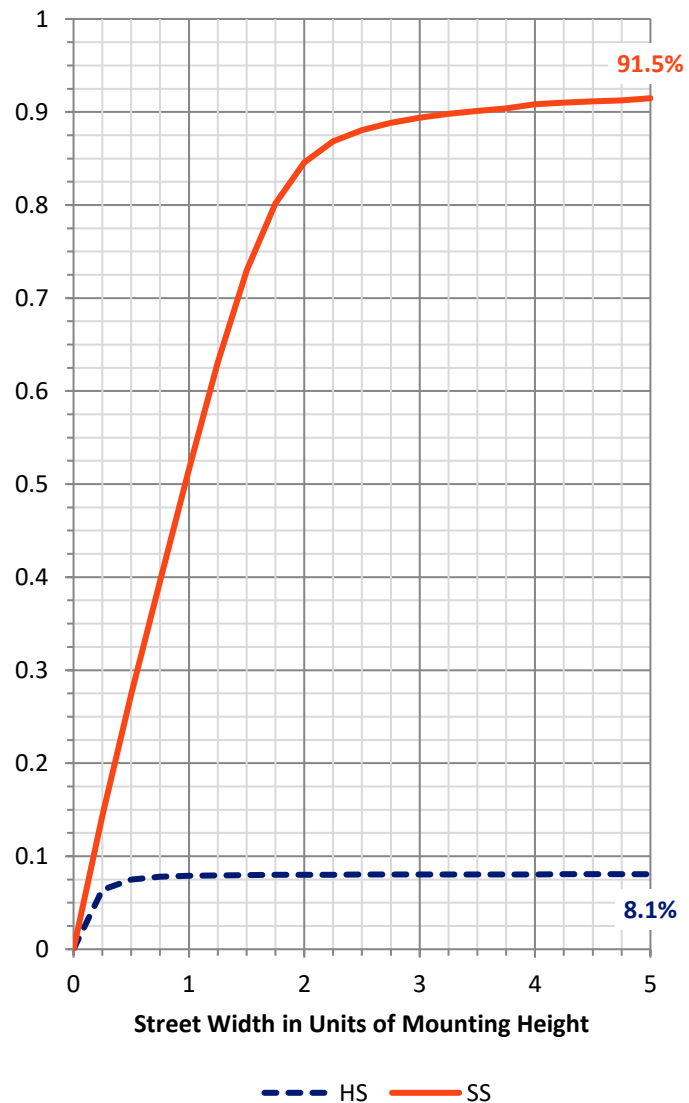
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2883.5	0.0	2883.5
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	32524.4	0.0	32524.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	35407.9	0.0	35407.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	748.1	2.1
10°-20°	1545.7	4.4
20°-30°	2080.0	5.9
30°-40°	3020.0	8.5
40°-50°	5028.6	14.2
50°-60°	7844.5	22.2
60°-70°	9706.9	27.4
70°-80°	4919.4	13.9
80°-90°	514.7	1.5
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°	35407.9	100.0
0°-180°	35407.9	100.0



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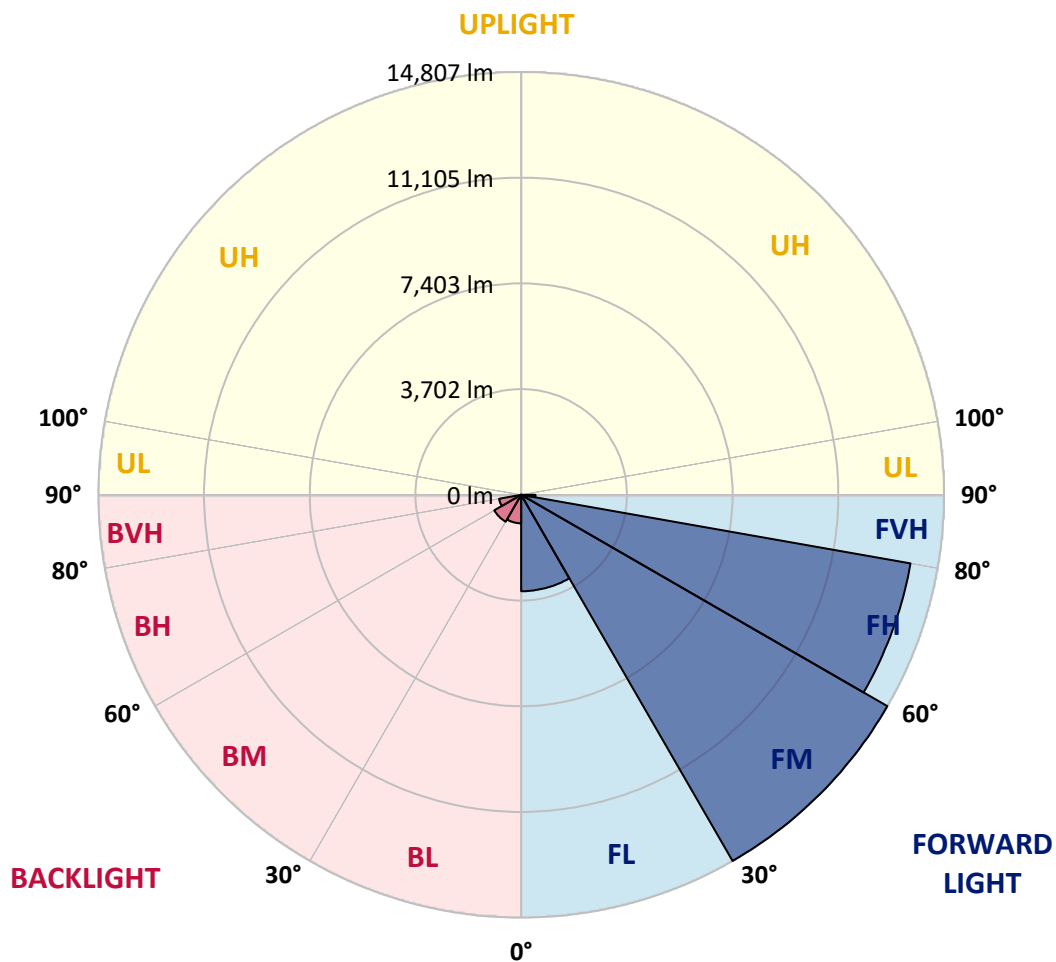
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3375.8	9.5			
FM (30°-60°)	14806.6	41.8			
FH (60°-80°)	13843.2	39.1			G5
FVH (80°-90°)	498.9	1.4			G3/500
BL (0°-30°)	998.1	2.8	B2/1000		
BM (30°-60°)	1086.5	3.1	B2/2500		
BH (60°-80°)	783.1	2.2	B2/1000		G2/1000
BVH (80°-90°)	15.8	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9216.3	9216.3	9216.3	9216.3	9216.3	9216.3	9216.3	9216.3	9216.3	9216.3	9216.3
2.5°	10101.3	10097.2	10053.1	10033.1	9997.1	9921.1	9802.8	9740.9	9640.7	9466.5	9232.2
5°	10009.0	10057.2	10083.1	10085.1	10111.2	10083.1	9977.0	9925.0	9786.9	9506.6	9086.0
7.5°	9384.4	9402.4	9476.5	9540.5	9664.7	9782.8	9820.9	9798.8	9716.7	9416.5	8857.7
10°	8715.6	8733.6	8821.7	8905.8	9074.0	9256.2	9448.5	9488.4	9522.6	9288.3	8637.6
12.5°	8139.1	8157.0	8247.1	8357.2	8553.4	8777.7	9076.0	9142.1	9292.2	9166.1	8461.3
15°	7642.5	7650.4	7738.5	7874.7	8109.0	8397.3	8735.7	8841.7	9072.1	9080.1	8307.2
17.5°	7219.9	7240.0	7294.1	7424.2	7680.5	8036.9	8431.3	8583.5	8853.8	9007.9	8157.0
20°	6961.8	6981.7	6979.7	7051.9	7282.1	7662.5	8127.0	8309.2	8637.6	8933.9	8022.9
22.5°	6911.6	6911.6	6859.5	6849.5	6985.7	7304.1	7810.7	8032.9	8443.3	8901.8	7928.8
25°	7089.9	7081.9	6951.8	6845.5	6851.6	7041.9	7504.4	7768.6	8279.1	8923.9	7878.8
27.5°	7466.3	7456.2	7292.1	7089.9	6927.6	6925.7	7272.0	7556.4	8149.1	9028.0	7898.7
30°	7986.8	7982.8	7804.7	7550.3	7256.0	6985.7	7192.0	7450.3	8065.0	9216.3	7944.8
32.5°	8555.5	8549.4	8415.3	8147.0	7774.7	7256.0	7276.0	7492.4	8089.0	9466.5	8056.9
35°	9158.1	9148.1	9090.0	8855.9	8445.3	7754.6	7552.4	7720.6	8241.1	9840.9	8277.2
37.5°	9810.8	9820.9	9862.9	9638.6	9208.2	8453.3	8014.9	8129.0	8547.5	10349.5	8635.5
40°	10773.9	10771.9	10785.9	10491.7	10077.1	9308.2	8661.5	8697.6	9060.0	11024.2	9180.1
42.5°	12521.8	12399.8	12029.4	11428.6	11012.2	10285.4	9476.5	9438.4	9686.8	11859.2	9943.0
45°	14870.5	14610.2	13649.0	12497.8	11965.2	11386.6	10479.5	10357.5	10515.6	12862.2	10884.0
47.5°	16890.7	16620.4	15260.9	13611.1	12976.3	12431.7	11654.9	11434.6	11486.6	13985.4	12077.4
50°	17577.5	17445.4	16258.0	14580.1	13955.3	13747.2	13018.3	12750.2	12676.1	15284.9	13460.9
52.5°	17339.2	17329.2	16538.2	15208.8	14852.4	15108.8	14734.3	14423.9	14151.7	16654.4	14868.4
55°	16956.8	17006.8	16652.4	15759.4	15747.4	16352.0	17080.9	16822.6	16033.8	18142.1	16081.7
57.5°	15901.5	16115.9	16588.3	16800.6	17293.1	17911.8	19035.1	19187.2	18254.2	19281.3	17088.8
60°	12902.3	13372.8	14918.5	16950.7	19285.4	20827.1	21393.7	21523.7	20076.2	20228.4	18448.4
62.5°	9158.1	9638.6	11598.8	15036.5	19315.4	24657.2	24907.6	24397.0	22082.5	21631.9	20793.0
65°	4861.4	5231.8	6833.5	10854.0	16746.6	25546.3	31052.3	29530.6	25622.4	24392.9	23822.3
67.5°	2486.8	2598.8	3235.5	5311.9	11512.8	22691.0	36560.5	37631.6	31723.0	27132.0	23676.2
69°	2200.5	2266.6	2688.9	3840.3	7372.2	19219.2	36828.7	40412.7	34916.6	26903.8	21515.8
70°	2130.4	2188.5	2572.8	3475.8	5762.4	16117.7	35801.6	40168.4	35733.5	26034.8	19901.9
72.5°	1808.0	1858.1	2290.6	3071.3	4683.1	8000.8	29082.2	34037.7	32065.4	21688.0	14405.8
75°	1209.4	1373.5	2198.4	2879.2	4356.8	4545.1	19173.2	24597.2	22849.3	14628.2	7504.4
77.5°	290.3	312.3	620.6	2290.6	3984.4	4000.4	9861.0	15290.9	12471.8	5213.8	1774.0
80°	156.1	150.1	174.2	454.5	3710.1	3754.1	4439.0	7422.2	4452.9	865.0	584.6
82.5°	110.1	104.2	112.1	190.3	1167.3	3419.8	3211.5	3359.8	1846.0	332.4	262.2
85°	40.1	38.1	62.1	172.1	366.4	1966.2	3299.7	2771.0	1495.7	152.2	192.1
87.5°	14.1	11.9	24.1	94.1	112.1	837.0	2036.3	2094.3	588.7	92.0	90.1
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°	9216.3	9216.3	9216.3	9216.3	9216.3	9216.3	9216.3	9216.3	9216.3	9216.3	9216.3
2.5°	9134.1	9010.0	8781.7	8547.5	8331.2	8070.9	7940.7	7812.6	7758.7	7738.5	7644.4
5°	8869.9	8659.7	8175.0	7688.6	7240.0	6763.5	6449.1	6196.9	6048.6	5976.7	5862.5
7.5°	8531.5	8187.1	7452.2	6701.4	6002.7	5313.8	4803.2	4410.9	4140.6	4010.5	3892.3
10°	8203.1	7744.6	6699.4	5676.3	4727.2	3814.3	3109.5	2598.8	2272.5	2122.3	2026.2
12.5°	7908.8	7314.1	5972.7	4677.1	3485.9	2416.7	1700.0	1293.4	1091.3	1021.2	987.1
15°	7646.5	6917.7	5285.8	3728.1	2360.7	1381.6	929.0	790.9	758.9	758.9	754.8
17.5°	7398.3	6529.2	4623.0	2837.1	1481.7	844.9	706.7	688.8	688.8	696.7	696.7
20°	7159.9	6158.8	3982.4	2036.3	933.0	670.8	638.8	634.7	638.8	648.8	648.8
22.5°	6955.7	5822.5	3383.7	1397.6	692.8	604.6	588.7	582.6	584.6	590.6	594.7
25°	6803.6	5538.1	2819.2	947.1	596.7	550.7	532.5	522.5	514.5	514.5	518.6
27.5°	6707.5	5297.8	2272.5	688.8	536.6	500.5	472.5	456.5	438.6	428.5	432.4
30°	6637.3	5069.7	1760.0	562.6	480.6	444.5	408.5	382.4	356.4	344.4	348.5
32.5°	6611.3	4885.4	1315.5	496.6	430.5	390.5	346.3	312.3	284.4	274.3	276.3
35°	6681.5	4739.3	963.1	448.6	390.5	340.4	290.3	252.2	230.2	224.2	226.3
37.5°	6865.6	4661.1	720.8	408.5	354.4	298.3	242.3	206.3	192.1	192.1	194.3
40°	7214.0	4659.1	578.7	380.4	322.3	258.4	200.2	174.2	166.1	170.1	172.1
42.5°	7722.5	4765.2	504.6	354.4	294.4	220.3	166.1	148.2	146.2	150.1	152.2
45°	8417.3	4959.5	464.6	332.4	264.3	184.2	140.1	128.2	128.2	134.1	136.2
47.5°	9268.3	5243.8	430.5	310.4	234.3	154.1	120.2	112.1	114.2	120.2	122.1
50°	10293.4	5602.2	396.4	286.3	212.2	128.2	104.2	98.2	100.2	108.2	110.1
52.5°	11460.7	6084.7	368.5	264.3	184.2	106.1	88.2	84.1	88.2	96.1	98.2
55°	12461.7	6517.3	334.3	246.2	148.2	88.2	72.0	72.0	76.0	86.1	88.2
57.5°	13424.8	6969.7	304.3	212.2	116.2	70.1	60.0	62.1	68.1	78.2	80.0
60°	14838.5	7736.6	268.4	178.3	88.2	56.1	50.0	52.0	60.0	70.1	72.0
62.5°	17239.1	8903.8	232.2	148.2	68.1	44.0	40.1	44.0	54.1	66.0	68.1
65°	19405.5	9378.3	190.3	124.1	52.0	34.0	34.0	40.1	52.0	64.0	66.0
67.5°	18198.1	7894.8	148.2	98.2	40.1	26.1	28.0	38.1	50.0	64.0	66.0
69°	16093.9	6455.1	126.1	78.2	34.0	24.1	26.1	38.1	50.0	62.1	64.0
70°	14454.0	5450.0	112.1	66.0	30.1	24.1	26.1	36.0	50.0	62.1	64.0
72.5°	9680.8	2943.2	90.1	48.1	28.0	22.0	22.0	36.0	48.1	60.0	62.1
75°	4160.6	812.8	72.0	34.0	24.1	20.0	20.0	34.0	46.1	58.1	62.1
77.5°	760.9	206.3	58.1	30.1	24.1	20.0	18.1	32.0	44.0	56.1	58.1
80°	302.3	102.0	46.1	26.1	22.0	18.1	16.0	30.1	42.0	54.1	56.1
82.5°	182.1	58.1	38.1	24.1	22.0	16.0	14.1	26.1	40.1	52.0	54.1
85°	148.2	40.1	30.1	24.1	20.0	16.0	11.9	24.1	36.0	50.0	52.0
87.5°	72.0	28.0	28.0	22.0	20.0	16.0	11.9	22.0	34.0	48.1	50.0
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)