

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: P193668

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193668
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-10-LED-E1-SL3-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 800mA 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: 33184 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 419
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

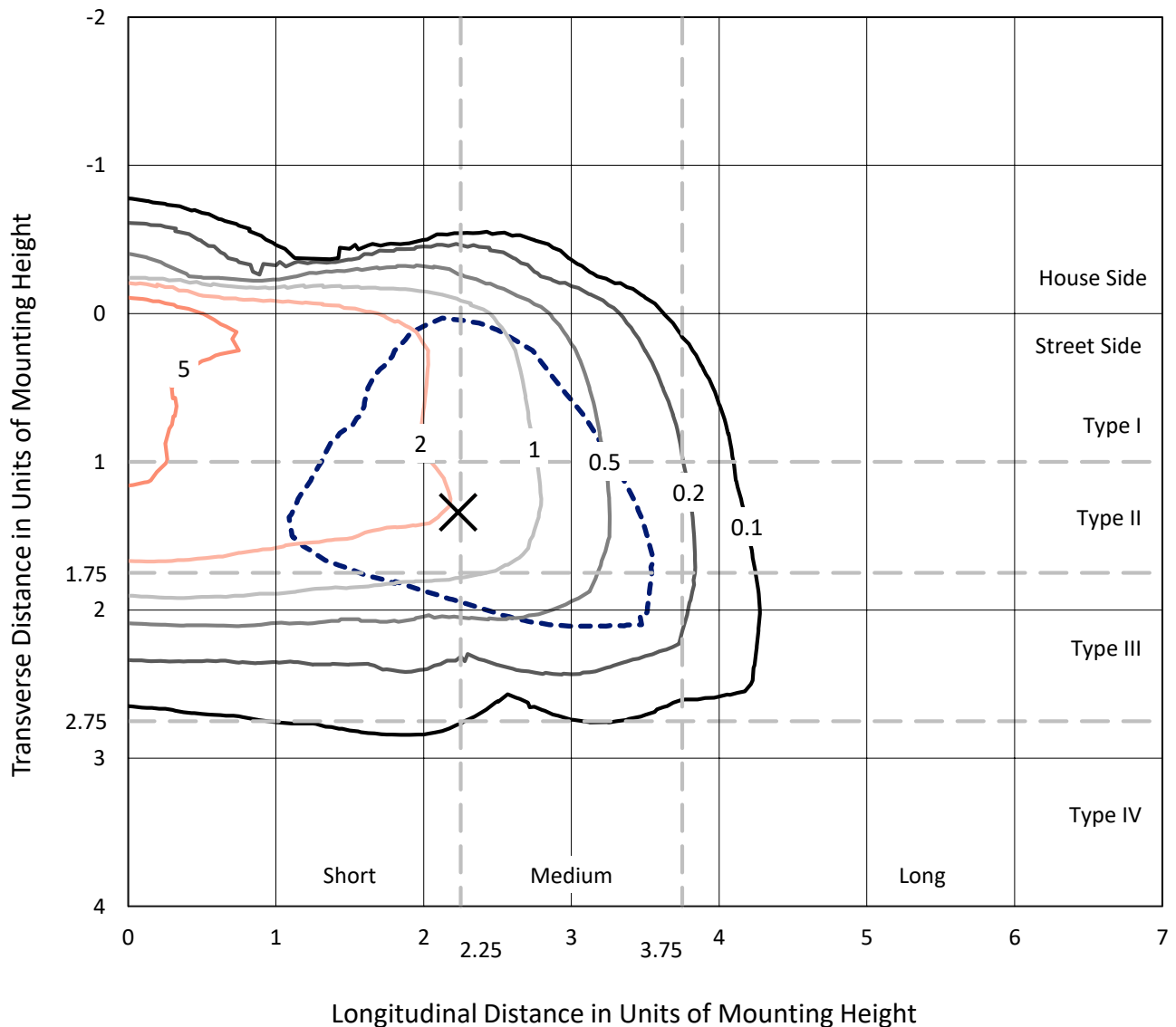


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

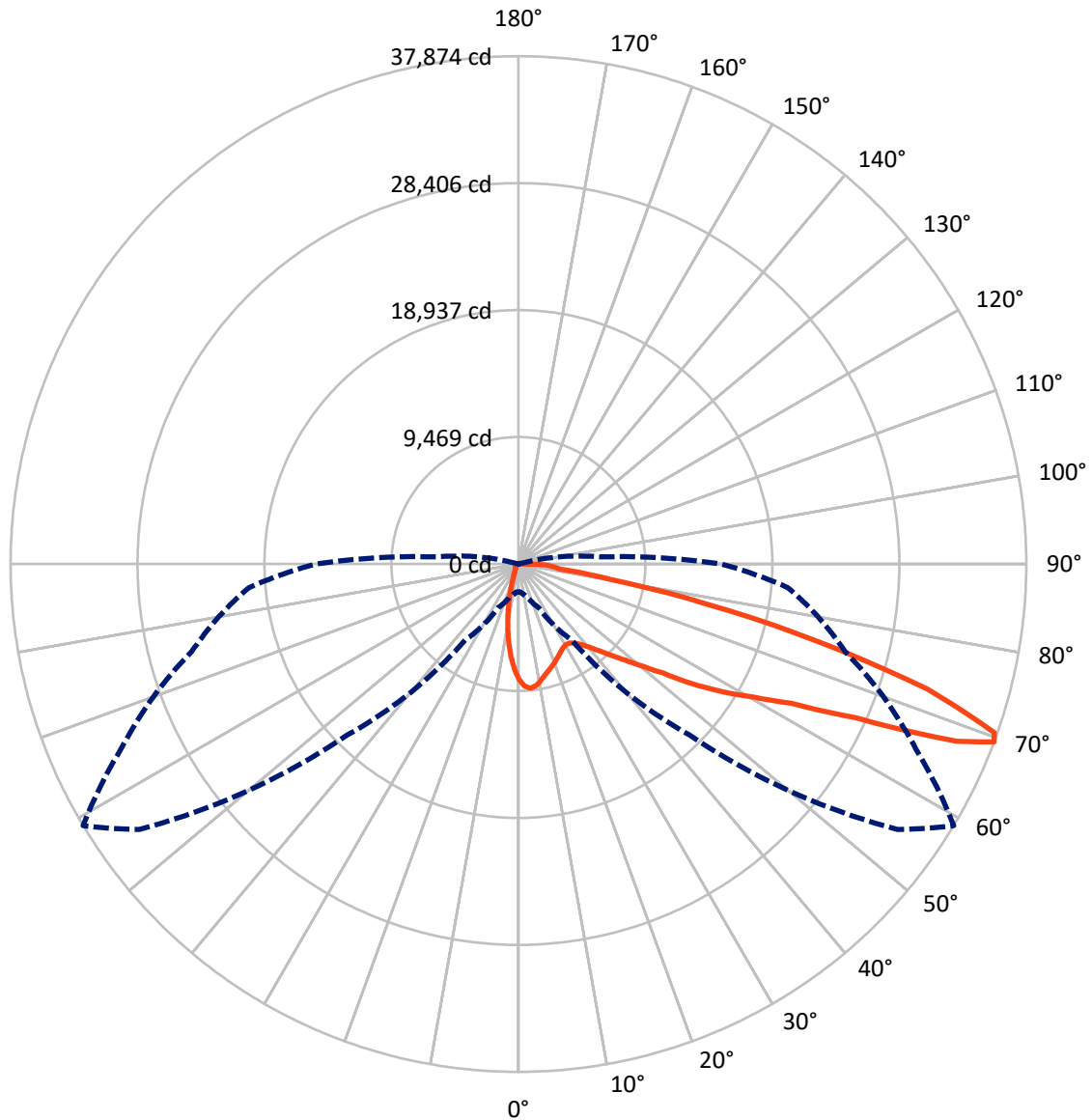


Based on 30 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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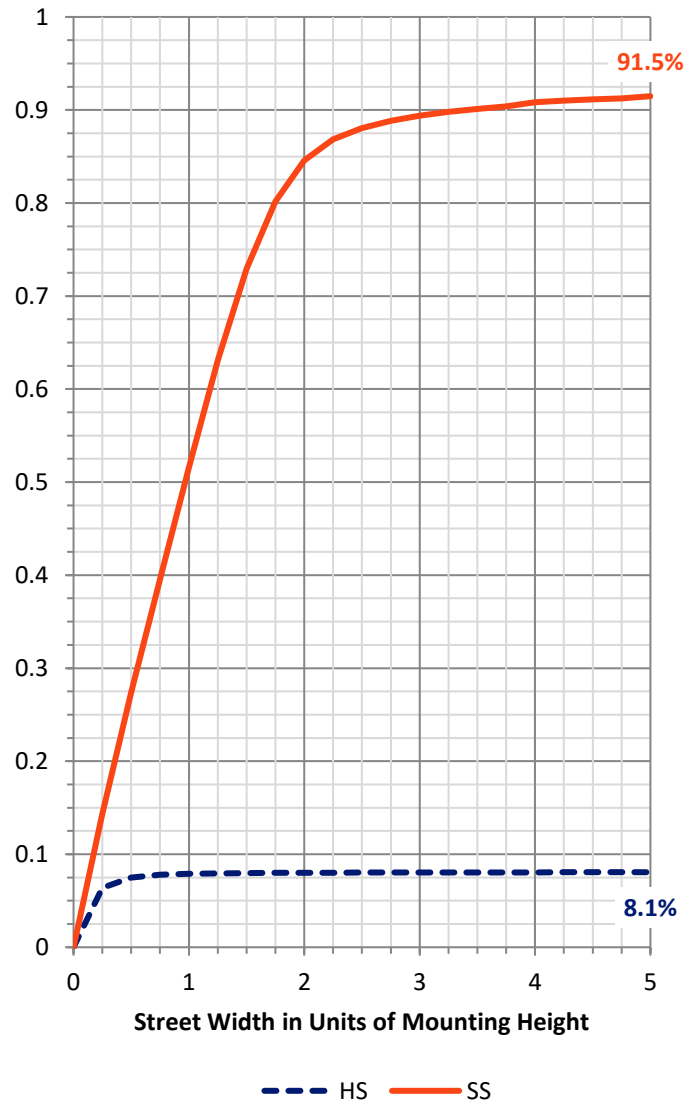
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2702.4	0.0	2702.4
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	30481.6	0.0	30481.6
	% Fixture	91.9	0.0	91.9
Total	Lumens	33184.0	0.0	33184.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	701.1	2.1
10°-20°	1448.7	4.4
20°-30°	1949.4	5.9
30°-40°	2830.3	8.5
40°-50°	4712.7	14.2
50°-60°	7351.8	22.2
60°-70°	9097.3	27.4
70°-80°	4610.4	13.9
80°-90°	482.4	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°	33184.0	100.0
0°-180°	33184.0	100.0



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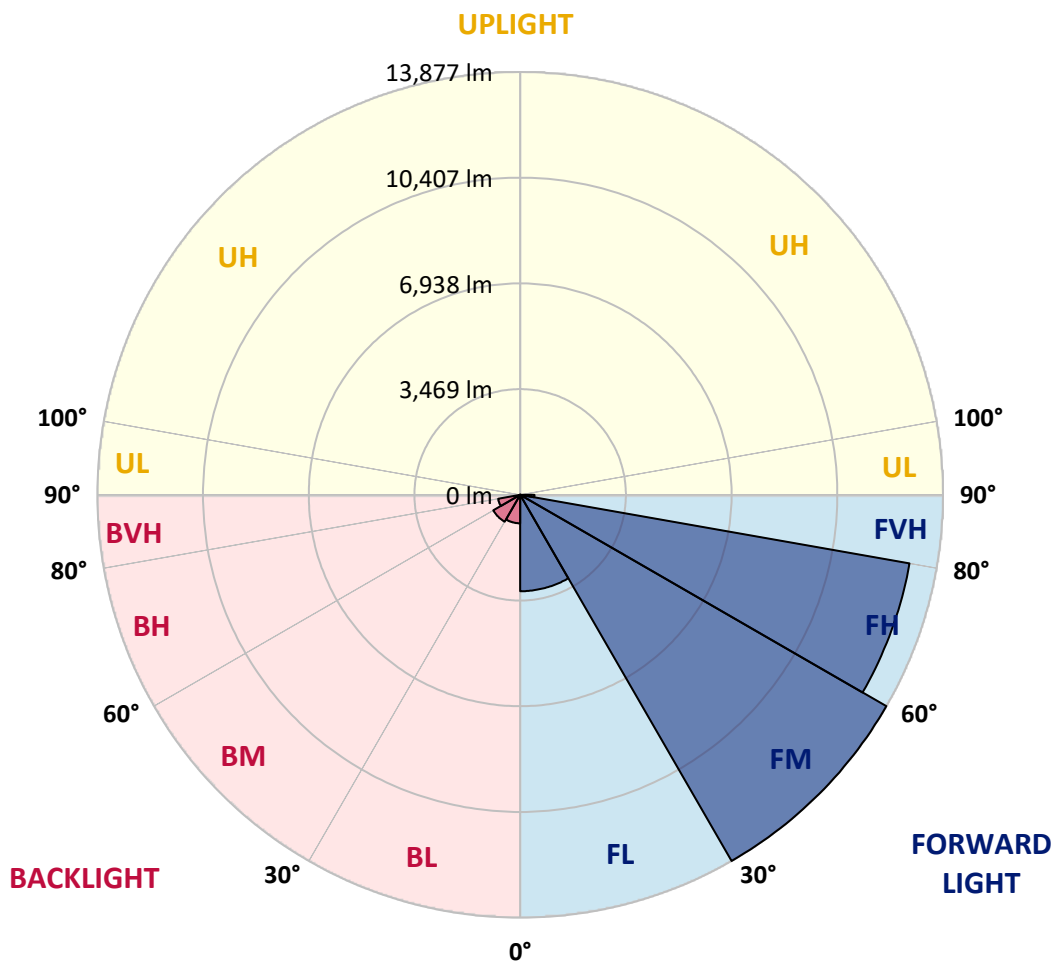
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3163.7	9.5			
FM (30°-60°)	13876.6	41.8			
FH (60°-80°)	12973.7	39.1			G5
FVH (80°-90°)	467.6	1.4			G3/500
BL (0°-30°)	935.4	2.8	B2/1000		
BM (30°-60°)	1018.3	3.1	B2/2500		
BH (60°-80°)	733.9	2.2	B2/1000		G2/1000
BVH (80°-90°)	14.8	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°	8637.3	8637.3	8637.3	8637.3	8637.3	8637.3	8637.3	8637.3	8637.3	8637.3	8637.3
2.5°	9466.7	9463.0	9421.7	9402.9	9369.2	9297.8	9187.1	9129.0	9035.1	8871.9	8652.3
5°	9380.4	9425.4	9449.8	9451.7	9476.1	9449.8	9350.4	9301.6	9172.1	8909.4	8515.4
7.5°	8795.0	8811.8	8881.3	8941.3	9057.7	9168.4	9204.0	9183.4	9106.5	8825.0	8301.5
10°	8168.2	8185.1	8267.7	8346.5	8504.1	8674.9	8855.0	8892.5	8924.4	8704.9	8095.0
12.5°	7627.8	7644.7	7729.1	7832.3	8016.2	8226.4	8506.0	8567.9	8708.6	8590.4	7929.9
15°	7162.4	7169.9	7252.5	7380.1	7599.7	7869.9	8187.0	8286.4	8502.2	8509.7	7785.4
17.5°	6766.5	6785.3	6835.9	6957.9	7198.1	7532.1	7901.8	8044.4	8297.7	8442.2	7644.7
20°	6524.4	6543.2	6541.3	6608.9	6824.7	7181.2	7616.5	7787.3	8095.0	8372.8	7519.0
22.5°	6477.5	6477.5	6428.7	6419.4	6547.0	6845.3	7320.1	7528.3	7913.0	8342.7	7430.8
25°	6644.5	6637.0	6515.1	6415.6	6421.2	6599.5	7033.0	7280.7	7759.2	8363.4	7383.9
27.5°	6997.3	6987.9	6834.1	6644.5	6492.5	6490.7	6815.3	7081.8	7637.2	8460.9	7402.6
30°	7485.2	7481.4	7314.4	7076.1	6800.3	6547.0	6740.2	6982.3	7558.4	8637.3	7445.8
32.5°	8018.1	8012.5	7886.8	7635.3	7286.3	6800.3	6819.0	7021.7	7580.9	8871.9	7550.9
35°	8582.9	8573.5	8519.1	8299.6	7914.9	7267.5	7078.0	7235.6	7723.5	9222.8	7757.3
37.5°	9194.6	9204.0	9243.4	9033.3	8629.8	7922.4	7511.5	7618.4	8010.6	9699.4	8093.2
40°	10097.2	10095.3	10108.5	9832.6	9444.2	8723.7	8117.6	8151.3	8491.0	10331.8	8603.6
42.5°	11735.4	11620.9	11273.8	10710.8	10320.5	9639.4	8881.3	8845.6	9078.3	11114.3	9318.5
45°	13936.5	13692.5	12791.8	11712.9	11213.7	10671.4	9821.4	9706.9	9855.2	12054.4	10200.4
47.5°	15829.8	15576.5	14302.4	12756.2	12161.3	11650.9	10922.9	10716.5	10765.2	13107.1	11318.8
50°	16473.4	16349.6	15236.8	13664.4	13078.9	12883.8	12200.7	11949.3	11879.9	14324.9	12615.4
52.5°	16250.1	16240.7	15499.5	14253.6	13919.6	14159.8	13808.9	13518.0	13262.8	15608.4	13934.6
55°	15891.7	15938.6	15606.5	14769.6	14758.3	15325.0	16008.1	15766.0	15026.7	17002.6	15071.7
57.5°	14902.8	15103.6	15546.5	15745.4	16207.0	16786.8	17839.5	17982.1	17107.7	18070.3	16015.6
60°	12091.9	12532.9	13981.5	15886.1	18074.0	19518.9	20050.0	20171.9	18815.2	18957.9	17289.7
62.5°	8582.9	9033.3	10870.3	14092.2	18102.2	23108.6	23343.1	22864.6	20695.5	20273.3	19487.0
65°	4556.0	4903.2	6404.4	10172.3	15694.7	23941.7	29102.0	27675.9	24013.0	22860.9	22326.1
67.5°	2330.6	2435.6	3032.4	4978.2	10789.6	21265.9	34264.1	35268.0	29730.6	25427.9	22189.1
69°	2062.2	2124.2	2520.1	3599.0	6909.1	18012.1	34515.6	37874.4	32723.6	25214.0	20164.4
70°	1996.6	2051.0	2411.2	3257.5	5400.4	15105.5	33552.9	37645.5	33489.1	24399.6	18652.0
72.5°	1694.4	1741.4	2146.7	2878.5	4389.0	7498.3	27255.6	31899.8	30051.5	20325.8	13501.1
75°	1133.4	1287.3	2060.4	2698.3	4083.2	4259.6	17969.0	23052.3	21414.1	13709.4	7033.0
77.5°	272.1	292.7	581.7	2146.7	3734.2	3749.2	9241.6	14330.5	11688.5	4886.3	1662.5
80°	146.4	140.7	163.3	426.0	3477.1	3518.4	4160.1	6956.0	4173.2	810.6	547.9
82.5°	103.2	97.6	105.1	178.3	1094.0	3205.0	3009.8	3148.7	1730.1	311.5	245.8
85°	37.5	35.7	58.2	161.4	343.4	1842.7	3092.4	2597.0	1401.7	142.6	180.1
87.5°	13.1	11.3	22.5	88.2	105.1	784.4	1908.4	1962.8	551.7	86.3	84.4
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°	8637.3	8637.3	8637.3	8637.3	8637.3	8637.3	8637.3	8637.3	8637.3	8637.3	8637.3
2.5°	8560.4	8444.1	8230.1	8010.6	7807.9	7564.0	7442.0	7321.9	7271.3	7252.5	7164.3
5°	8312.7	8115.7	7661.6	7205.6	6785.3	6338.7	6044.1	5807.6	5668.8	5601.2	5494.3
7.5°	7995.6	7672.8	6984.2	6280.5	5625.6	4980.1	4501.6	4133.8	3880.5	3758.5	3647.8
10°	7687.8	7258.1	6278.6	5319.8	4430.3	3574.7	2914.1	2435.6	2129.8	1989.0	1899.0
12.5°	7412.0	6854.7	5597.5	4383.4	3266.9	2264.9	1593.1	1212.2	1022.7	957.0	925.1
15°	7166.2	6483.2	4953.8	3494.0	2212.3	1294.8	870.7	741.2	711.2	711.2	707.4
17.5°	6933.5	6119.1	4332.7	2658.9	1388.6	791.9	662.4	645.5	645.5	653.0	653.0
20°	6710.2	5772.0	3732.3	1908.4	874.4	628.6	598.6	594.8	598.6	608.0	608.0
22.5°	6518.8	5456.7	3171.2	1309.8	649.3	566.7	551.7	546.0	547.9	553.6	557.3
25°	6376.2	5190.3	2642.1	887.6	559.2	516.0	499.1	489.8	482.2	482.2	486.0
27.5°	6286.1	4965.1	2129.8	645.5	502.9	469.1	442.8	427.8	410.9	401.6	405.3
30°	6220.5	4751.2	1649.4	527.3	450.3	416.6	382.8	358.4	334.0	322.8	326.5
32.5°	6196.1	4578.6	1232.8	465.4	403.4	365.9	324.6	292.7	266.5	257.1	259.0
35°	6261.7	4441.6	902.6	420.3	365.9	319.0	272.1	236.4	215.8	210.2	212.0
37.5°	6434.4	4368.4	675.5	382.8	332.1	279.6	227.1	193.3	180.1	180.1	182.0
40°	6760.9	4366.5	542.3	356.5	302.1	242.1	187.6	163.3	155.7	159.5	161.4
42.5°	7237.5	4466.0	472.9	332.1	275.8	206.4	155.7	138.9	137.0	140.7	142.6
45°	7888.6	4648.0	435.3	311.5	247.7	172.6	131.4	120.1	120.1	125.7	127.6
47.5°	8686.1	4914.4	403.4	290.9	219.5	144.5	112.6	105.1	107.0	112.6	114.5
50°	9646.9	5250.3	371.5	268.3	198.9	120.1	97.6	91.9	93.8	101.3	103.2
52.5°	10740.8	5702.6	345.3	247.7	172.6	99.5	82.6	78.8	82.6	90.1	91.9
55°	11679.1	6107.9	313.4	230.8	138.9	82.6	67.6	67.6	71.3	80.7	82.6
57.5°	12581.7	6532.0	285.2	198.9	108.8	65.7	56.3	58.2	63.8	73.2	75.1
60°	13906.4	7250.6	251.4	167.0	82.6	52.5	46.9	48.8	56.3	65.7	67.6
62.5°	16156.3	8344.6	217.7	138.9	63.8	41.3	37.5	41.3	50.7	61.9	63.8
65°	18186.6	8789.3	178.3	116.3	48.8	31.9	31.9	37.5	48.8	60.0	61.9
67.5°	17055.1	7398.9	138.9	91.9	37.5	24.4	26.3	35.7	46.9	60.0	61.9
69°	15083.0	6049.7	118.2	73.2	31.9	22.5	24.4	35.7	46.9	58.2	60.0
70°	13546.2	5107.7	105.1	61.9	28.1	22.5	24.4	33.8	46.9	58.2	60.0
72.5°	9072.7	2758.4	84.4	45.0	26.3	20.6	20.6	33.8	45.0	56.3	58.2
75°	3899.3	761.8	67.6	31.9	22.5	18.8	18.8	31.9	43.2	54.4	58.2
77.5°	713.1	193.3	54.4	28.1	22.5	18.8	16.9	30.0	41.3	52.5	54.4
80°	283.3	95.7	43.2	24.4	20.6	16.9	15.0	28.1	39.4	50.7	52.5
82.5°	170.8	54.4	35.7	22.5	20.6	15.0	13.1	24.4	37.5	48.8	50.7
85°	138.9	37.5	28.1	22.5	18.8	15.0	11.3	22.5	33.8	46.9	48.8
87.5°	67.6	26.3	26.3	20.6	18.8	15.0	11.3	20.6	31.9	45.0	46.9
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)