

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: P193707

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-SL3-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35086 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

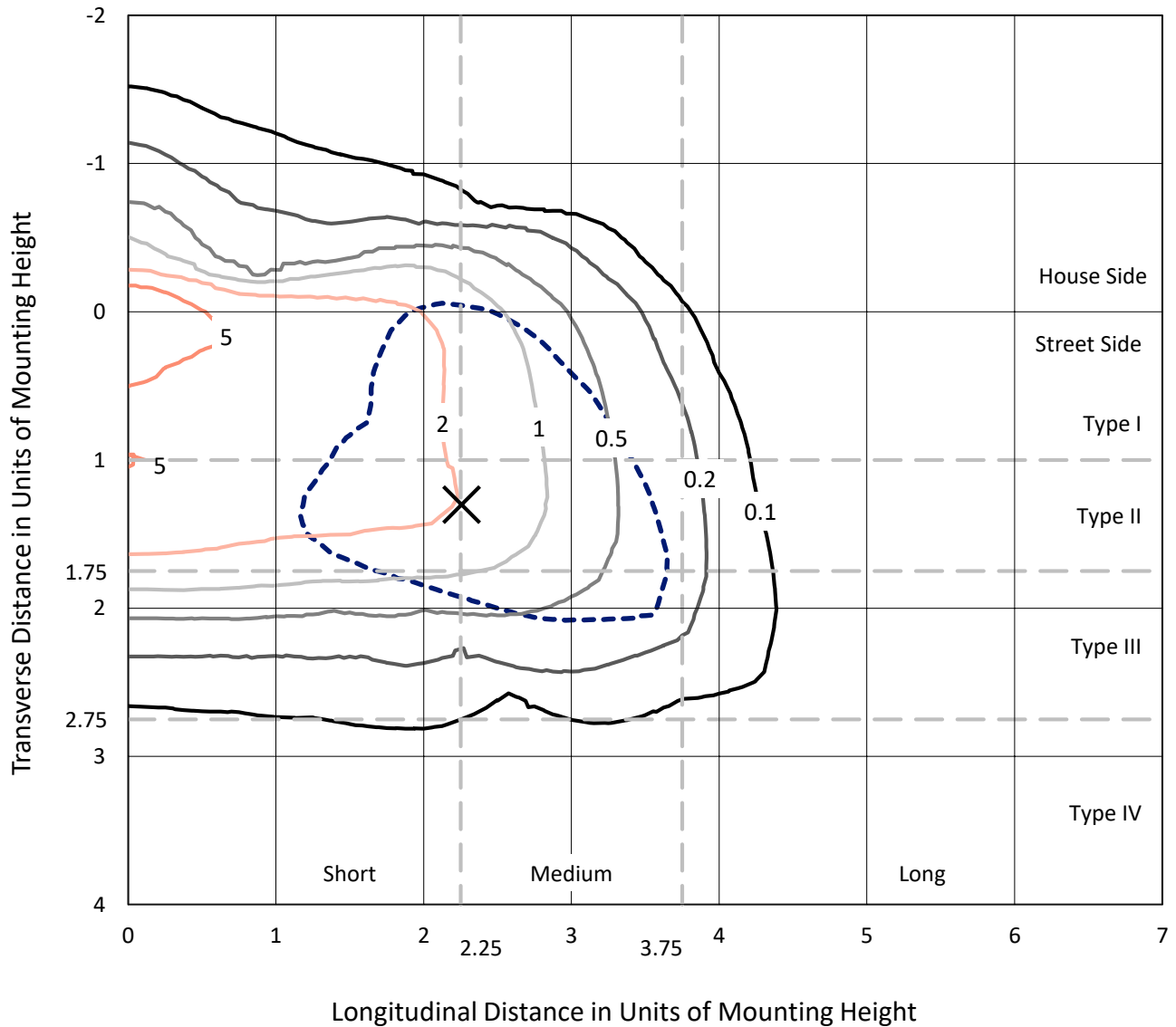
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

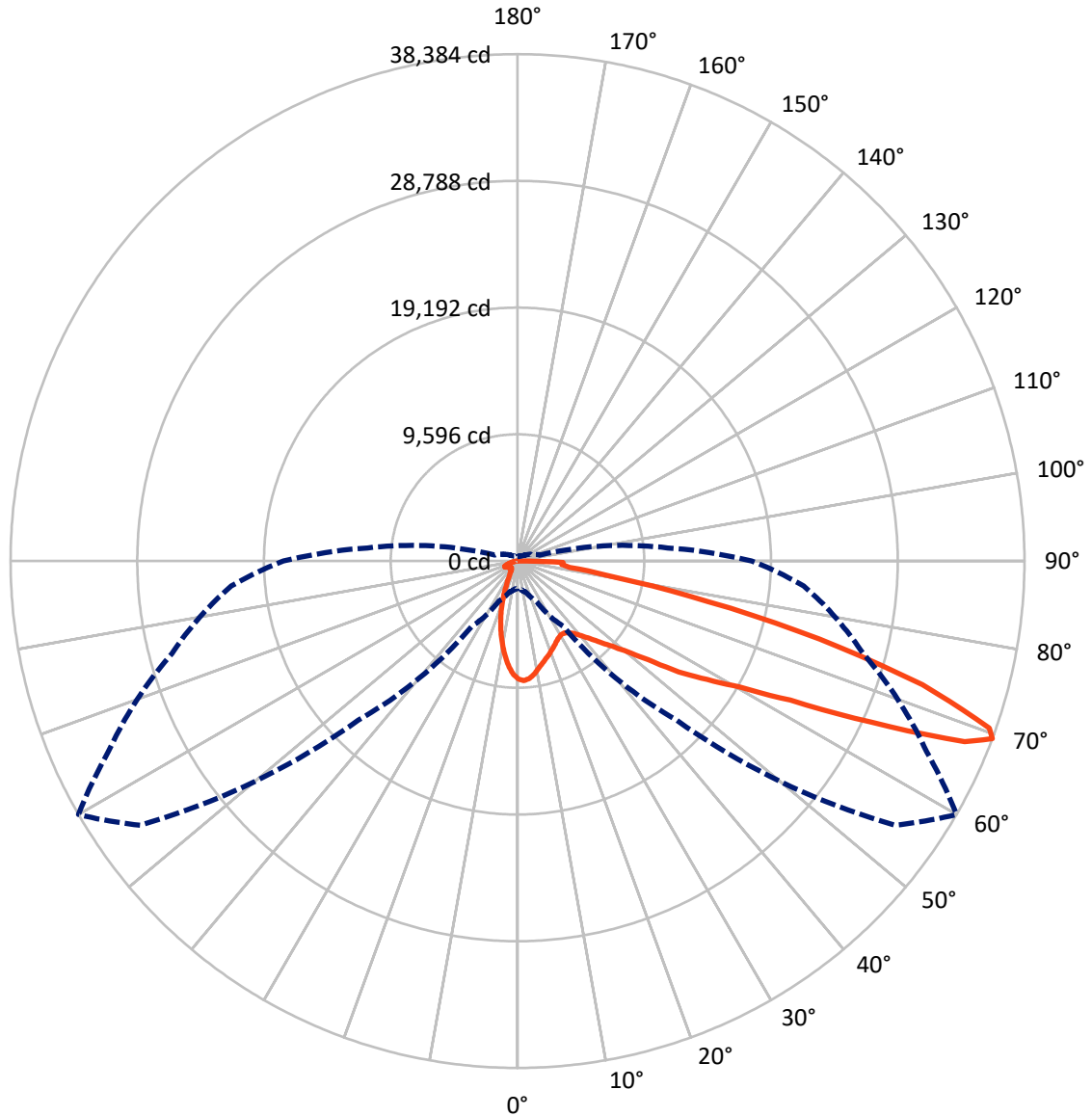


Based on 30 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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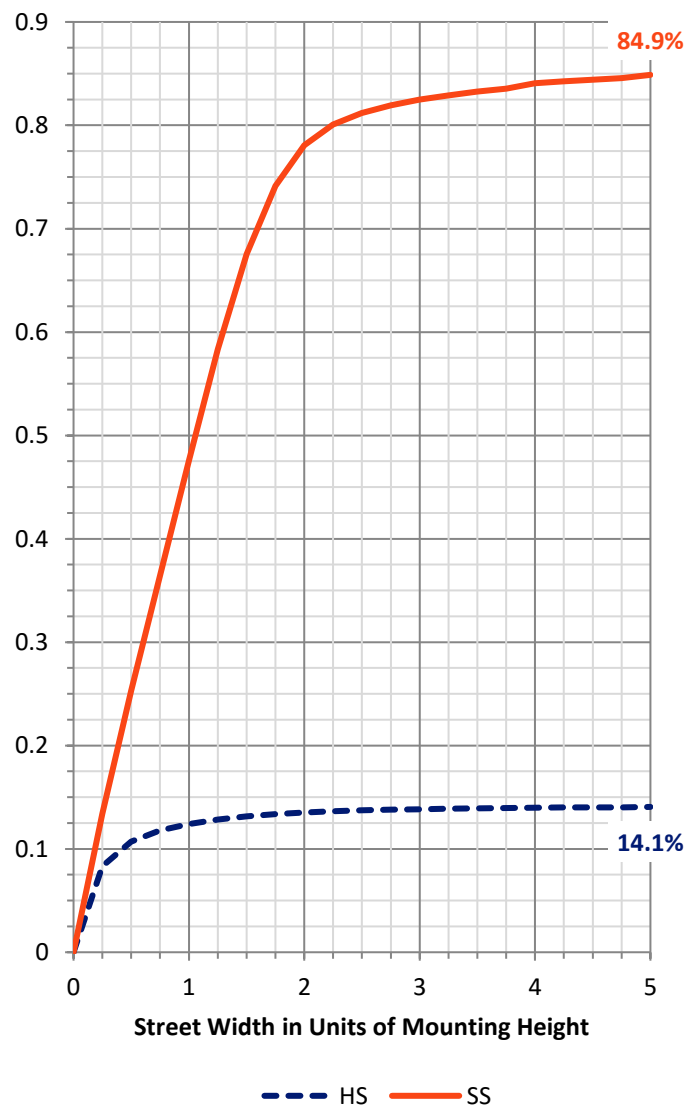
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4991.6	0.0	4991.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	30094.4	0.0	30094.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	35086.0	0.0	35086.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	755.9	2.2
10°-20°	1610.6	4.6
20°-30°	2052.2	5.8
30°-40°	2821.2	8.0
40°-50°	4577.7	13.0
50°-60°	7341.5	20.9
60°-70°	9771.0	27.8
70°-80°	5275.6	15.0
80°-90°	880.3	2.5
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°	35086.0	100.0
0°-180°	35086.0	100.0

Coefficient of Utilization



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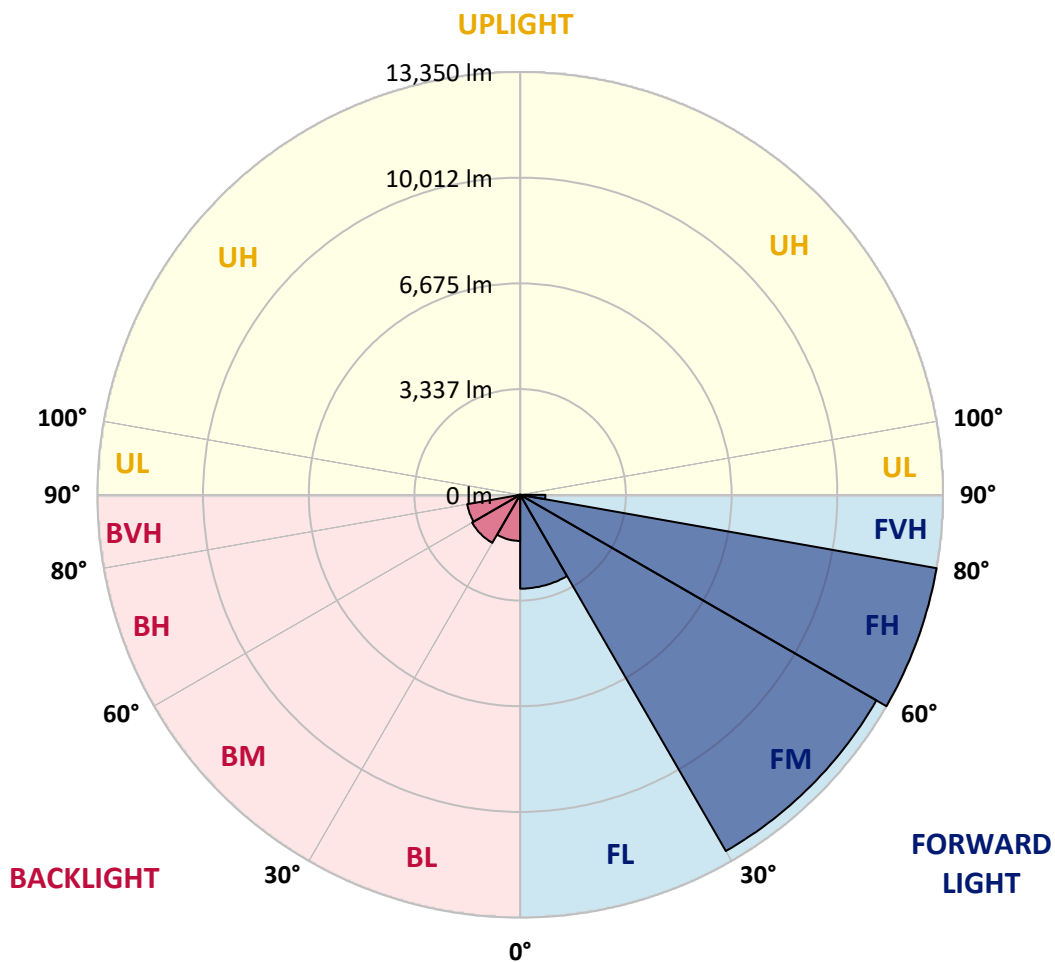
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2962.5	8.4			
FM	(30°-60°)	12986.8	37.0			
FH	(60°-80°)	13349.6	38.0			G5
FVH	(80°-90°)	795.5	2.3			G5
BL	(0°-30°)	1456.2	4.2	B3/2500		
BM	(30°-60°)	1753.7	5.0	B2/2500		
BH	(60°-80°)	1697.0	4.8	B3/2500		G3/2500
BVH	(80°-90°)	84.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	8940.4	8940.4	8940.4	8940.4	8940.4	8940.4	8940.4	8940.4	8940.4	8940.4	8940.4
2.5°	9123.5	9143.8	9135.4	9130.3	9145.5	9121.8	9072.6	9057.4	9033.7	8977.7	8882.8
5°	8781.1	8842.1	8838.8	8884.5	8960.8	8981.1	8959.1	8962.5	8918.4	8848.9	8691.3
7.5°	8189.6	8215.0	8228.6	8328.6	8467.6	8579.4	8674.4	8704.9	8684.5	8625.2	8421.8
10°	7579.5	7599.8	7632.0	7749.0	7925.2	8079.5	8259.1	8362.5	8406.6	8396.4	8169.3
12.5°	7055.7	7076.1	7118.5	7250.7	7460.8	7650.6	7911.7	8040.5	8145.6	8208.3	7964.2
15°	6586.3	6630.3	6671.0	6823.6	7059.1	7308.3	7603.2	7765.9	7928.6	8069.3	7782.8
17.5°	6220.2	6264.2	6288.0	6427.0	6677.8	6982.9	7328.6	7520.1	7723.5	7954.0	7603.2
20°	6008.3	6028.7	6018.5	6096.5	6321.9	6645.6	7055.7	7277.8	7523.5	7845.6	7423.5
22.5°	5949.0	5950.7	5913.4	5904.9	6050.7	6323.6	6764.2	7033.7	7335.4	7774.4	7269.3
25°	6093.1	6088.0	5986.3	5903.2	5918.5	6077.8	6482.9	6796.4	7177.8	7759.1	7150.7
27.5°	6413.4	6428.6	6277.8	6121.9	5967.6	5962.6	6269.3	6599.8	7049.0	7828.6	7099.8
30°	6862.5	6888.0	6726.9	6528.6	6238.8	5999.8	6186.3	6482.9	6969.3	7972.7	7091.3
32.5°	7354.0	7381.2	7259.1	7050.7	6671.0	6230.3	6243.9	6493.1	6965.9	8174.4	7149.0
35°	7877.8	7908.3	7845.6	7669.3	7247.3	6655.8	6464.2	6657.5	7076.1	8482.8	7303.2
37.5°	8462.5	8509.9	8526.9	8359.1	7908.3	7216.8	6825.2	6969.3	7325.2	8911.6	7586.2
40°	9304.8	9370.9	9365.9	9125.2	8665.9	7974.4	7382.9	7420.1	7713.4	9484.5	8038.8
42.5°	10918.4	10931.9	10509.9	9986.2	9499.8	8771.0	8040.5	8010.0	8248.9	10209.9	8704.9
45°	12970.8	12914.9	11976.0	10964.1	10370.9	9686.2	8896.4	8747.2	8928.6	11094.6	9538.7
47.5°	14674.2	14545.4	13359.0	11962.4	11292.9	10681.1	9901.4	9640.4	9740.4	12098.0	10616.7
50°	15265.7	15169.1	14186.1	12792.9	12165.8	11894.6	11138.7	10769.2	10796.3	13294.6	11879.4
52.5°	15138.6	15125.0	14469.1	13340.3	12982.7	13169.1	12891.2	12391.2	12126.8	14623.3	13242.0
55°	14838.6	14867.4	14630.1	13977.6	13916.6	14399.6	15181.0	14811.5	13989.5	15964.0	14650.5
57.5°	13796.3	13870.8	14392.8	14779.3	15419.9	16138.6	17025.0	16919.9	15994.5	17413.1	16325.0
60°	11115.0	11287.8	12687.8	14623.3	16967.4	19214.8	19611.4	19367.3	18062.2	19211.4	18536.8
62.5°	7787.9	7967.6	9632.0	12660.7	16713.1	22689.2	24235.0	23182.4	21031.7	21860.4	21399.4
65°	4169.4	4255.8	5527.0	8784.5	14109.8	23406.2	30992.4	29390.8	25733.2	25126.5	23848.5
67.5°	2299.9	2347.4	2833.8	4435.5	9037.1	20611.3	35297.4	36507.5	31609.3	27301.0	23402.8
69°	2079.6	2123.7	2442.3	3359.2	6047.3	17041.9	34877.1	38383.7	34185.6	27085.7	21755.4
70°	2033.8	2074.5	2361.0	3096.5	4894.8	14047.1	33468.6	37904.1	34799.1	26314.6	20318.1
72.5°	1830.5	1874.5	2152.5	2781.3	4182.9	7003.2	26511.2	32048.3	31594.1	22816.4	15411.5
75°	1706.7	1747.4	2218.6	2723.7	4005.0	4432.1	17477.5	23619.7	23224.8	15960.6	8310.0
77.5°	730.5	727.1	1028.8	2305.0	4064.3	4291.4	9391.3	14755.5	13462.4	6821.9	2386.4
80°	488.1	479.6	488.1	677.9	3727.0	4315.1	4920.2	7489.6	5657.5	1738.9	1176.2
82.5°	420.3	413.5	428.8	413.5	1310.1	4925.3	4182.9	3982.9	2689.8	988.1	583.0
85°	283.0	271.2	369.5	371.2	618.6	4376.2	4711.7	3364.3	2176.2	586.4	288.1
87.5°	135.6	132.2	215.2	262.7	362.7	1777.9	5286.3	3447.4	2194.9	300.0	137.3
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°	8940.4	8940.4	8940.4	8940.4	8940.4	8940.4	8940.4	8940.4	8940.4	8940.4	8940.4
2.5°	8854.0	8784.5	8716.7	8635.4	8550.6	8455.7	8408.3	8360.8	8348.9	8335.4	8287.9
5°	8609.9	8511.6	8342.2	8155.7	7959.1	7767.6	7621.8	7530.3	7460.8	7425.2	7362.5
7.5°	8294.7	8150.6	7854.0	7532.0	7201.5	6899.8	6638.8	6474.4	6318.5	6245.6	6162.6
10°	7994.7	7779.5	7318.5	6843.9	6369.3	5913.4	5484.6	5181.2	4911.7	4760.9	4654.1
12.5°	7737.1	7442.2	6803.2	6160.9	5510.0	4860.9	4218.5	3713.5	3291.4	3069.4	2955.9
15°	7486.2	7130.3	6313.4	5498.2	4662.6	3779.6	2935.5	2362.7	2013.5	1874.5	1827.1
17.5°	7259.1	6803.2	5821.9	4830.4	3788.0	2720.3	1972.8	1657.6	1523.7	1477.9	1462.7
20°	7013.4	6472.7	5311.7	4132.1	2876.2	1901.6	1540.6	1401.7	1347.4	1333.9	1327.1
22.5°	6776.1	6147.3	4823.6	3384.7	2066.0	1467.8	1323.7	1266.1	1257.6	1269.5	1269.5
25°	6574.4	5855.8	4296.5	2603.3	1516.9	1235.6	1184.7	1171.2	1203.4	1247.4	1255.9
27.5°	6423.6	5616.8	3735.5	1922.0	1208.4	1074.5	1072.9	1094.9	1174.5	1259.3	1276.2
30°	6320.2	5389.7	3135.5	1386.4	1013.5	945.7	972.9	1020.3	1137.3	1257.6	1289.8
32.5°	6267.6	5221.9	2510.1	1072.9	867.8	830.5	876.2	933.9	1049.1	1161.0	1203.4
35°	6308.3	5098.2	1920.3	894.9	766.1	737.3	784.7	840.7	908.5	955.9	988.1
37.5°	6460.8	5049.0	1449.1	801.7	696.6	669.5	706.8	739.0	766.1	779.6	794.9
40°	6789.7	5101.6	1161.0	754.2	657.6	623.7	639.0	650.8	667.8	681.3	688.1
42.5°	7274.4	5259.2	1040.7	735.6	637.3	588.1	584.7	589.8	611.8	637.3	642.4
45°	7952.3	5537.1	1032.2	747.4	627.1	559.3	544.1	550.8	584.7	623.7	630.5
47.5°	8818.4	5960.9	1100.0	783.0	635.6	544.1	518.6	527.1	569.5	622.0	630.5
50°	9867.5	6552.4	1213.5	835.6	672.9	547.4	510.2	515.2	559.3	616.9	625.4
52.5°	11106.5	7391.3	1337.3	886.4	711.8	569.5	516.9	505.1	545.7	596.6	606.8
55°	12484.4	8467.6	1464.4	932.2	732.2	596.6	530.5	491.5	520.3	562.7	571.2
57.5°	14175.9	9972.6	1684.7	976.2	745.7	615.2	544.1	478.0	488.1	518.6	525.4
60°	16465.7	12101.4	2072.8	1049.1	776.3	622.0	542.4	466.1	455.9	472.9	476.3
62.5°	19209.7	14413.2	2396.5	1140.6	827.1	627.1	532.2	457.6	428.8	428.8	432.2
65°	20838.4	15031.8	2216.9	1216.9	869.5	622.0	520.3	449.1	408.5	389.8	391.5
67.5°	19457.1	13220.0	1900.0	1232.2	867.8	598.3	501.7	433.9	388.1	359.3	357.6
69°	17726.7	11406.5	1757.6	1191.5	827.1	567.8	478.0	416.9	372.9	342.4	340.7
70°	16331.8	10299.7	1664.4	1147.4	783.0	545.7	459.3	401.7	361.0	332.2	328.8
72.5°	11874.3	6749.0	1422.0	986.4	645.7	457.6	396.6	352.5	322.0	305.1	301.7
75°	5933.7	3218.6	1154.2	800.0	494.9	366.1	325.4	294.9	279.7	276.3	274.6
77.5°	1949.1	1474.5	825.4	596.6	367.8	286.4	262.7	240.7	237.3	247.5	244.1
80°	1071.2	857.6	523.7	394.9	250.8	210.2	206.8	194.9	200.0	216.9	213.6
82.5°	545.7	445.8	323.7	237.3	169.5	150.8	164.4	157.6	164.4	179.7	178.0
85°	269.5	244.1	205.1	144.1	111.9	96.6	116.9	122.0	125.4	137.3	137.3
87.5°	155.9	144.1	108.5	67.8	55.9	50.8	67.8	66.1	78.0	84.7	83.0
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)