

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: P534197

Luminaire Tested: **GALN-SA9C-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30245 lumens
Efficiency: N/A
Efficacy: 62.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

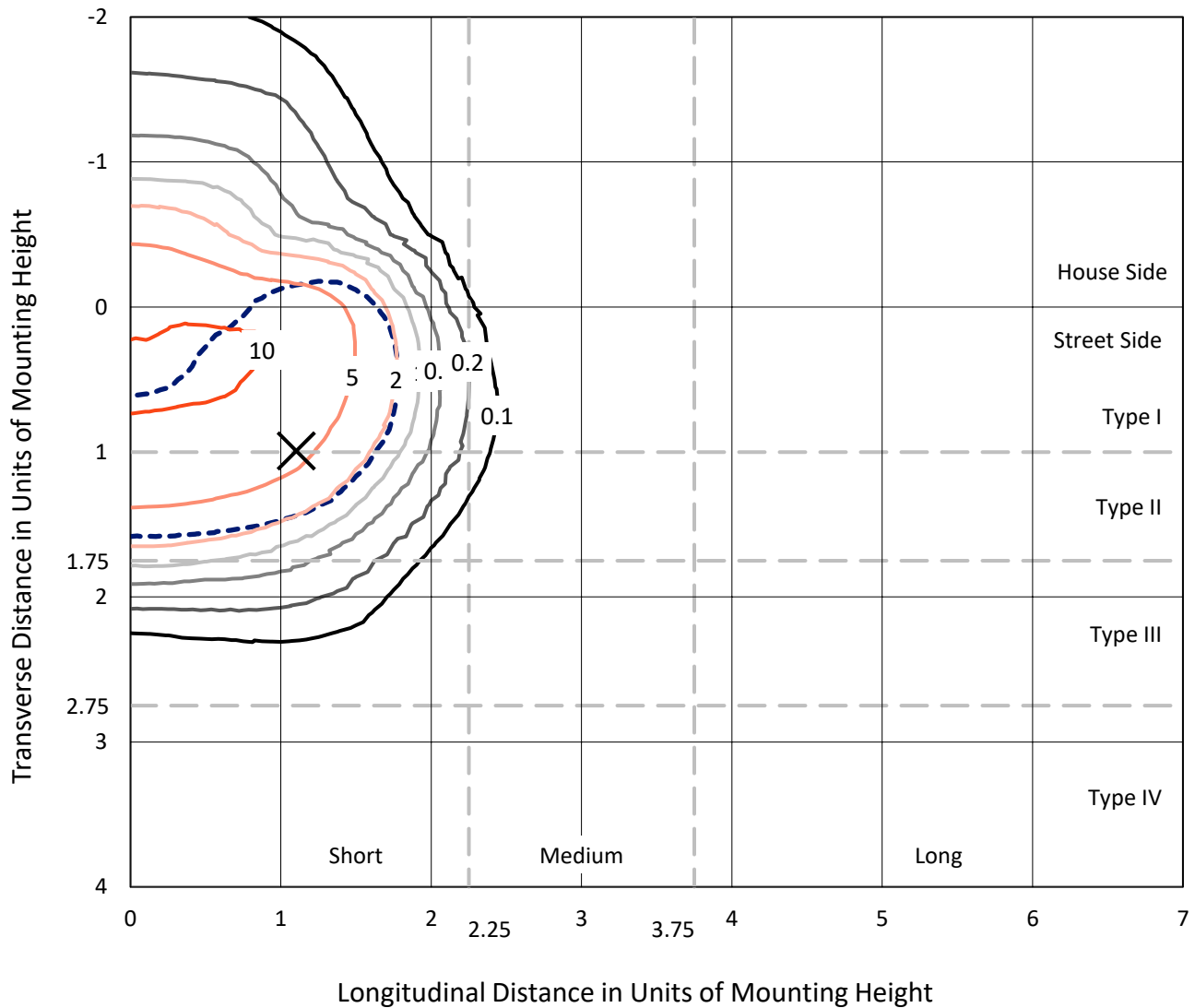
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

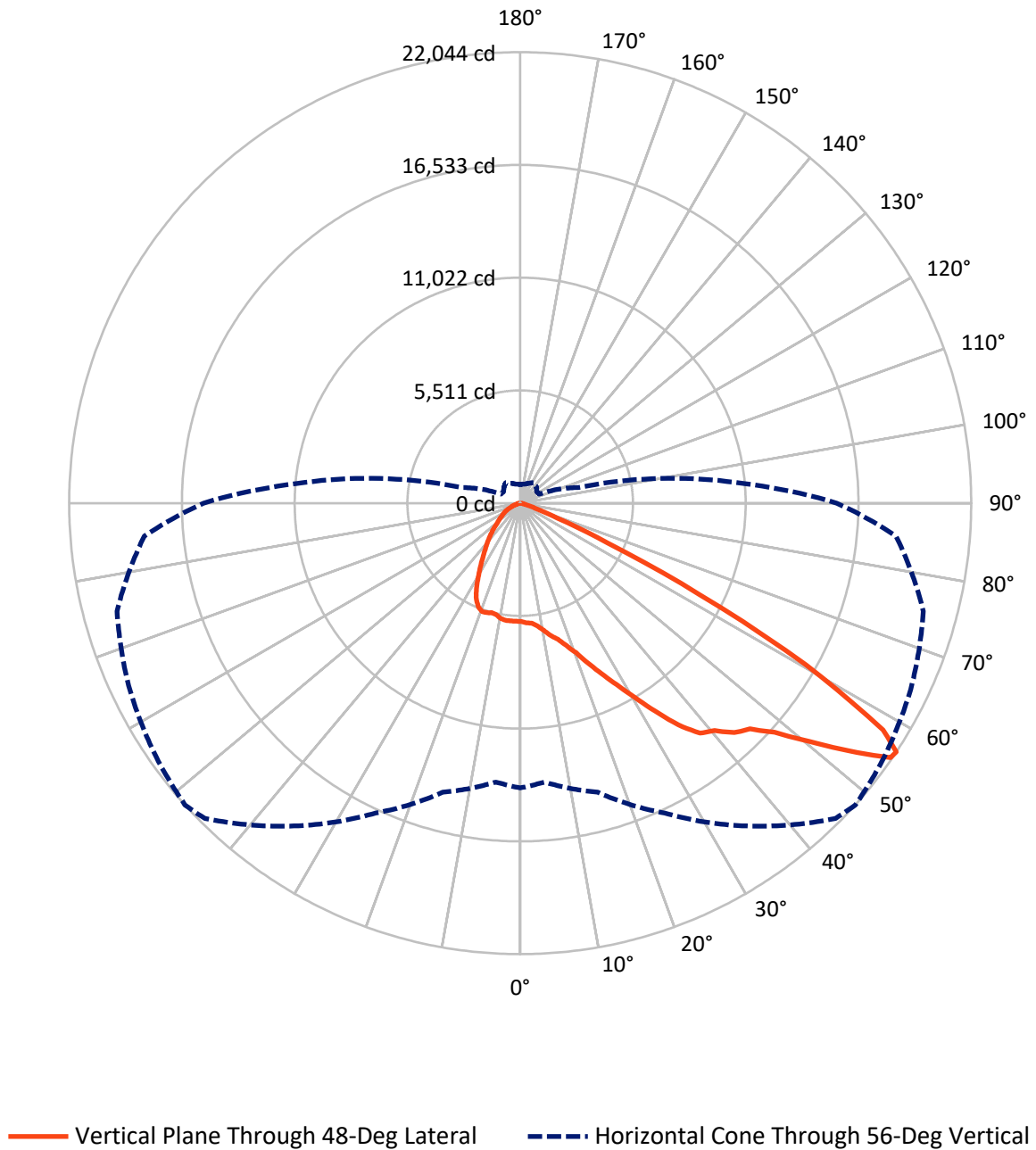
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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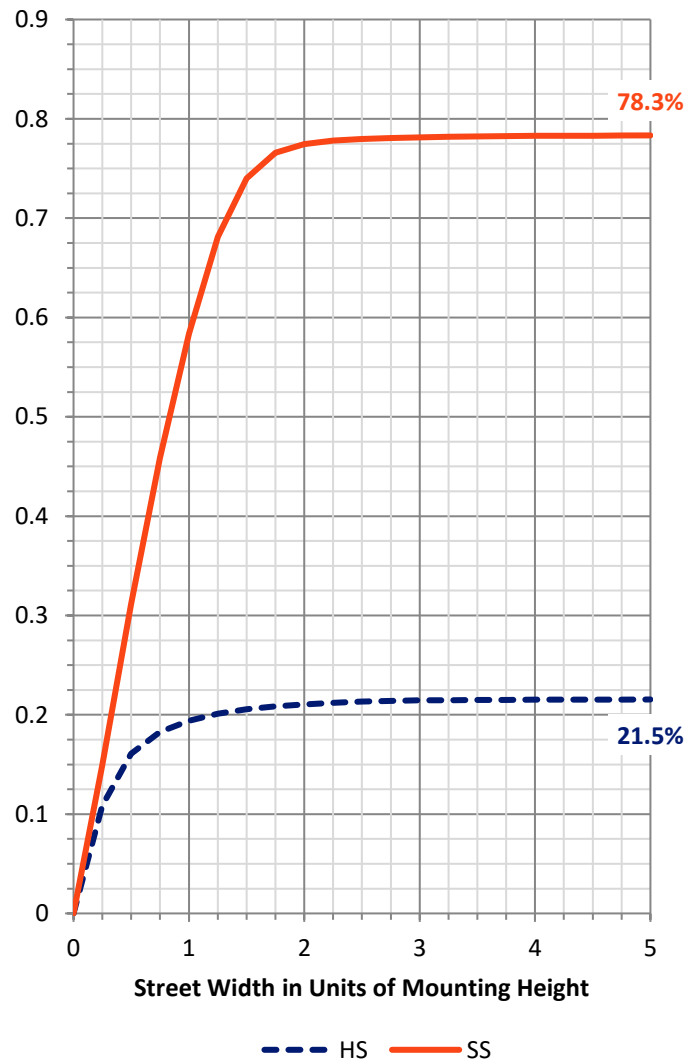
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6577.7	0.0	6577.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	23667.3	0.0	23667.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	30245.0	0.0	30245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.7	1.9
10°-20°	1798.4	5.9
20°-30°	3261.9	10.8
30°-40°	5123.8	16.9
40°-50°	7474.6	24.7
50°-60°	9005.5	29.8
60°-70°	2636.7	8.7
70°-80°	334.5	1.1
80°-90°	46.9	0.2
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°	30245.0	100.0
0°-180°	30245.0	100.0

Coefficient of Utilization



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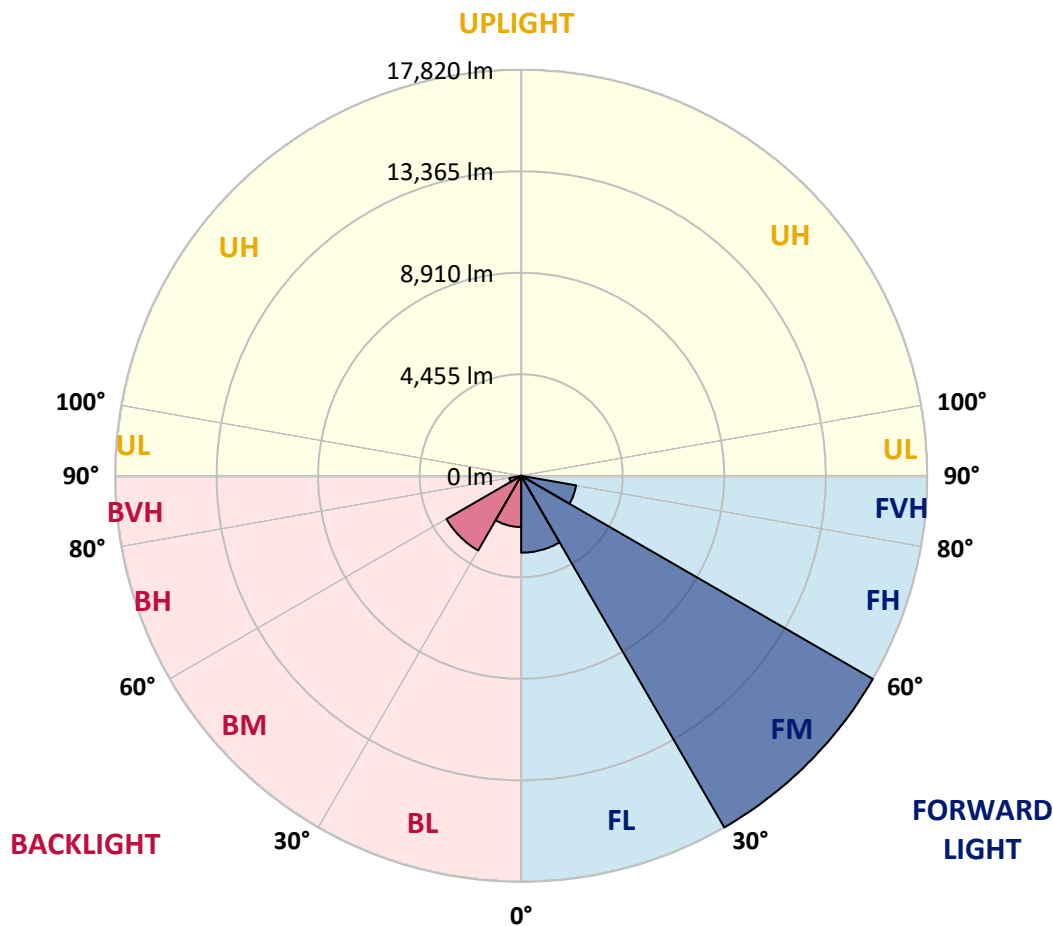
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3374.7	11.2			
FM	(30°-60°)	17820.4	58.9			
FH	(60°-80°)	2448.6	8.1			G2/5000
FVH	(80°-90°)	23.5	0.1			G1/100
BL	(0°-30°)	2248.2	7.4	B3/2500		
BM	(30°-60°)	3783.5	12.5	B3/5000		
BH	(60°-80°)	522.7	1.7	B2/1000		G2/1000
BVH	(80°-90°)	23.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	5776.8	5776.8	5776.8	5776.8	5776.8	5776.8	5776.8	5776.8	5776.8	5776.8	5776.8
2.5°	5881.4	5853.9	5853.9	5809.8	5859.4	5837.4	5853.9	5798.8	5853.9	5771.3	5837.4
5°	5909.0	5914.5	5892.5	5920.0	5920.0	5953.0	5898.0	5947.5	5975.1	5914.5	5886.9
7.5°	6052.2	6063.2	6057.7	6035.6	6079.7	6074.2	6068.7	6030.1	6041.1	6019.1	5986.1
10°	6333.0	6327.5	6355.0	6300.0	6266.9	6305.5	6316.5	6255.9	6211.9	6195.3	6090.7
12.5°	6740.5	6674.4	6635.9	6580.8	6597.3	6542.3	6641.4	6536.8	6514.7	6415.6	6311.0
15°	7070.9	7059.9	7065.4	6977.3	6878.2	6900.2	6900.2	6845.2	6812.1	6691.0	6542.3
17.5°	7748.3	7517.0	7566.6	7456.4	7373.8	7368.3	7318.8	7329.8	7241.7	6988.3	6762.6
20°	8277.0	8177.8	8100.7	7913.5	7786.9	7825.4	7803.4	7748.3	7720.8	7390.3	7070.9
22.5°	8750.6	8783.6	8657.0	8607.4	8431.2	8447.7	8491.7	8442.2	8232.9	7891.5	7417.9
25°	9416.9	9378.4	9207.6	9147.1	8981.9	9042.4	9213.2	9174.6	9042.4	8425.7	7687.7
27.5°	10204.4	10072.2	10105.3	9829.9	9670.2	9840.9	10044.7	10237.5	9863.0	9053.5	8007.1
30°	10760.6	10622.9	10611.9	10600.9	10562.4	10760.6	10997.4	11173.6	10870.8	9681.2	8535.8
32.5°	11036.0	11069.0	11162.6	11129.6	11465.5	11873.0	12120.8	12374.2	11994.2	10705.5	9235.2
35°	11768.4	11559.1	11768.4	11790.4	12137.4	13001.9	13315.8	13921.6	13828.0	12153.9	10088.8
37.5°	12197.9	12181.4	12208.9	12418.2	12754.1	13822.5	14268.6	14736.6	14560.4	13024.0	11151.6
40°	12908.3	12952.4	12946.9	13106.6	13475.5	14439.3	14621.0	15001.0	15017.5	14230.0	12715.6
42.5°	14048.3	13872.0	13756.4	13921.6	14439.3	14973.4	15336.9	15259.8	15805.0	15694.9	14725.6
45°	15072.6	15177.2	15006.5	15281.8	15469.1	15755.4	15744.4	15909.6	16603.5	17126.7	16240.0
47.5°	16030.8	16096.9	16179.5	16366.7	16774.2	16818.3	16724.7	16653.1	17611.3	18151.0	17413.0
50°	16603.5	16664.1	17049.6	17385.5	18145.5	18244.6	18299.7	18117.9	18767.7	18828.3	18519.9
52.5°	16449.3	16515.4	17055.1	18162.0	19373.5	20282.2	20116.9	19808.6	19770.0	20006.8	19544.2
55°	15083.6	15023.0	15766.4	17490.1	19759.0	21939.8	21961.8	21636.9	21014.6	20854.9	19390.0
56°	13921.6	13684.8	14632.0	16713.6	19263.4	21796.6	22044.4	21697.4	21113.7	20397.8	18437.3
57.5°	11404.9	11630.7	12572.4	14296.1	17550.7	20766.8	20910.0	20827.3	20386.8	19186.3	16223.5
60°	6289.0	6685.5	7517.0	9626.2	12495.3	15937.2	16052.8	16724.7	16807.3	14692.6	11162.6
62.5°	2670.9	2626.8	3491.4	5044.4	7115.0	9620.7	9835.4	10523.8	10650.5	8469.7	5600.6
65°	1084.9	1145.4	1580.5	2538.7	3761.3	4383.5	4686.4	4912.2	5330.7	3496.9	2065.1
67.5°	715.9	710.4	930.7	1448.3	2026.6	1955.0	1955.0	2065.1	1910.9	1426.3	892.1
70°	512.1	528.7	666.3	1002.3	1261.1	936.2	897.6	859.1	974.7	941.7	721.4
72.5°	335.9	358.0	446.1	600.3	655.3	512.1	512.1	616.8	804.0	760.0	589.2
75°	220.3	225.8	275.3	346.9	324.9	264.3	291.9	413.0	583.7	561.7	418.5
77.5°	148.7	154.2	187.2	225.8	181.7	148.7	159.7	209.3	286.4	286.4	220.3
80°	55.1	60.6	77.1	71.6	82.6	104.6	115.6	143.2	170.7	170.7	148.7
82.5°	0.0	5.5	16.5	38.5	60.6	82.6	93.6	110.1	126.7	143.2	137.7
85°	0.0	5.5	16.5	27.5	44.1	49.6	55.1	38.5	33.0	33.0	27.5
87.5°	0.0	0.0	5.5	5.5	5.5	5.5	5.5	5.5	11.0	5.5	5.5
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°	5776.8	5776.8	5776.8	5776.8	5776.8	5776.8	5776.8	5776.8	5776.8	5776.8	5776.8
2.5°	5776.8	5771.3	5771.3	5754.8	5787.8	5771.3	5782.3	5776.8	5705.2	5760.3	5721.7
5°	5837.4	5875.9	5815.4	5804.3	5760.3	5776.8	5776.8	5721.7	5771.3	5765.8	5754.8
7.5°	5991.6	5925.5	5859.4	5793.3	5782.3	5765.8	5705.2	5683.2	5721.7	5677.7	5743.8
10°	6057.7	6068.7	5969.6	5881.4	5798.8	5683.2	5600.6	5551.0	5490.4	5556.5	5595.1
12.5°	6360.5	6250.4	6079.7	5942.0	5661.2	5545.5	5462.9	5440.9	5545.5	5567.5	5529.0
15°	6465.2	6448.7	6228.4	5920.0	5628.1	5490.4	5507.0	5462.9	5473.9	5418.9	5429.9
17.5°	6680.0	6492.7	6233.9	5848.4	5622.6	5589.6	5490.4	5314.2	5215.1	5171.0	5209.6
20°	6916.8	6735.0	6360.5	5875.9	5672.2	5584.1	5259.2	5044.4	4840.6	4730.5	4736.0
22.5°	7126.0	6900.2	6305.5	5886.9	5716.2	5352.8	4961.8	4537.7	4284.4	4113.7	4119.2
25°	7379.3	7059.9	6327.5	5909.0	5600.6	4983.8	4422.1	4009.1	3706.2	3590.5	3629.1
27.5°	7522.5	7159.1	6448.7	5958.5	5297.7	4460.6	3854.9	3469.4	3293.2	3238.1	3232.6
30°	7952.1	7379.3	6597.3	5859.4	4791.1	3898.9	3337.2	3100.4	2929.7	2880.1	2891.2
32.5°	8590.9	7781.3	6790.1	5600.6	4273.4	3397.8	3001.3	2825.1	2665.4	2571.8	2560.7
35°	9125.0	8469.7	6993.8	5198.6	3673.1	3012.3	2764.5	2544.2	2301.9	2197.3	2169.7
37.5°	10143.8	9246.2	6949.8	4592.8	3100.4	2725.9	2511.2	2241.3	2032.1	1888.9	1872.4
40°	11498.5	10154.8	6735.0	3854.9	2676.4	2472.6	2241.3	1982.5	1723.7	1602.5	1591.5
42.5°	13145.1	11267.3	6344.0	3105.9	2252.3	2219.3	2010.0	1712.7	1481.4	1393.3	1398.8
45°	14483.3	12220.0	5947.5	2494.7	1938.5	1971.5	1789.8	1508.9	1349.2	1277.6	1277.6
47.5°	15672.8	12864.3	5518.0	2059.6	1646.6	1723.7	1564.0	1398.8	1261.1	1206.0	1195.0
50°	16818.3	13519.6	5088.4	1668.6	1404.3	1481.4	1464.9	1332.7	1222.5	1156.5	1162.0
52.5°	17534.2	13624.2	4543.2	1365.7	1228.1	1316.2	1371.2	1250.1	1128.9	1090.4	1079.4
55°	16658.6	12275.0	3524.5	1123.4	1040.8	1156.5	1261.1	1123.4	1029.8	963.7	958.2
56°	15480.1	10975.4	2946.2	1035.3	985.7	1112.4	1222.5	1073.9	969.2	930.7	903.1
57.5°	13106.6	8981.9	2175.3	919.7	914.2	1035.3	1162.0	1024.3	903.1	870.1	870.1
60°	8172.3	5055.4	1316.2	771.0	793.0	919.7	1046.3	914.2	804.0	804.0	820.5
62.5°	3722.7	2103.7	798.5	655.3	682.9	793.0	930.7	826.0	765.5	826.0	837.1
65°	1266.6	908.6	578.2	523.2	539.7	655.3	798.5	837.1	831.6	870.1	892.1
67.5°	710.4	583.7	484.6	435.1	424.0	484.6	655.3	837.1	804.0	787.5	798.5
70°	600.3	495.6	429.5	385.5	369.0	391.0	506.6	633.3	567.2	550.7	539.7
72.5°	484.6	413.0	374.5	346.9	297.4	253.3	231.3	242.3	269.8	286.4	313.9
75°	341.4	313.9	313.9	280.9	214.8	159.7	126.7	104.6	71.6	49.6	55.1
77.5°	192.7	192.7	198.3	170.7	137.7	104.6	77.1	55.1	27.5	11.0	5.5
80°	132.2	143.2	154.2	137.7	115.6	93.6	66.1	38.5	16.5	0.0	0.0
82.5°	132.2	148.7	159.7	137.7	115.6	88.1	66.1	38.5	16.5	5.5	0.0
85°	27.5	33.0	38.5	44.1	66.1	66.1	49.6	33.0	16.5	5.5	0.0
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
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)