

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: P530683

Luminaire Tested: **GALN-SA5D-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5D-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18160 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

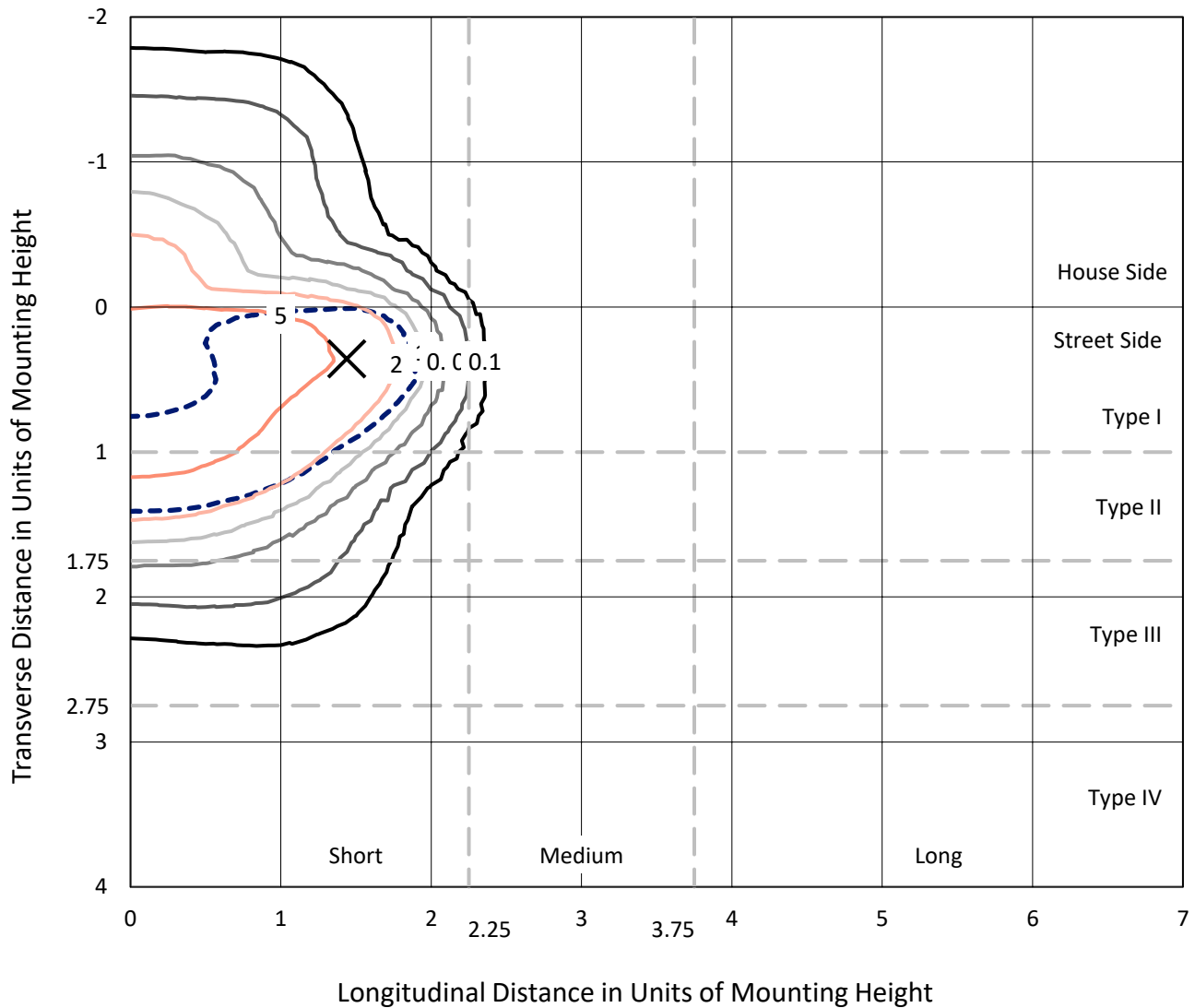
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

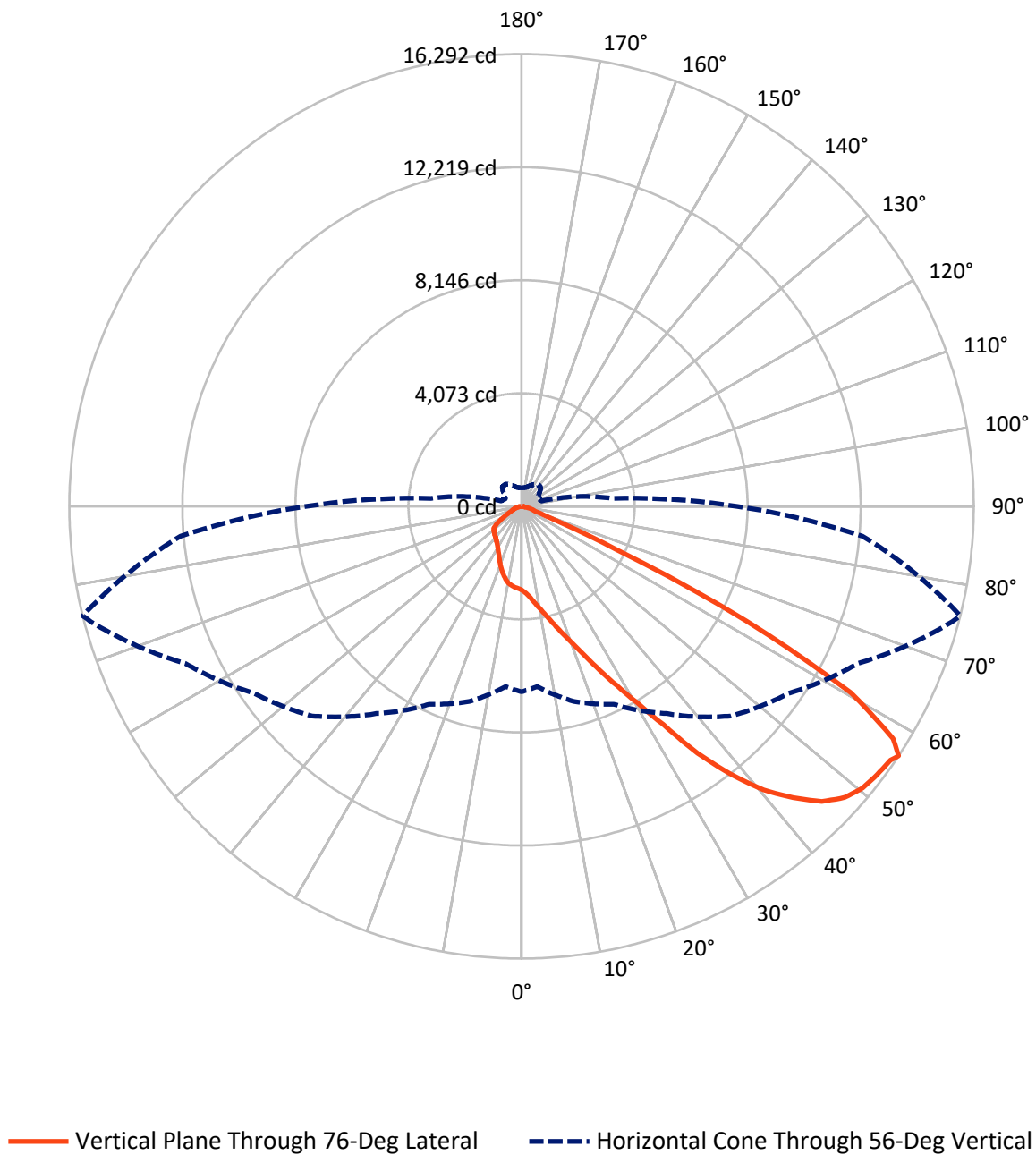
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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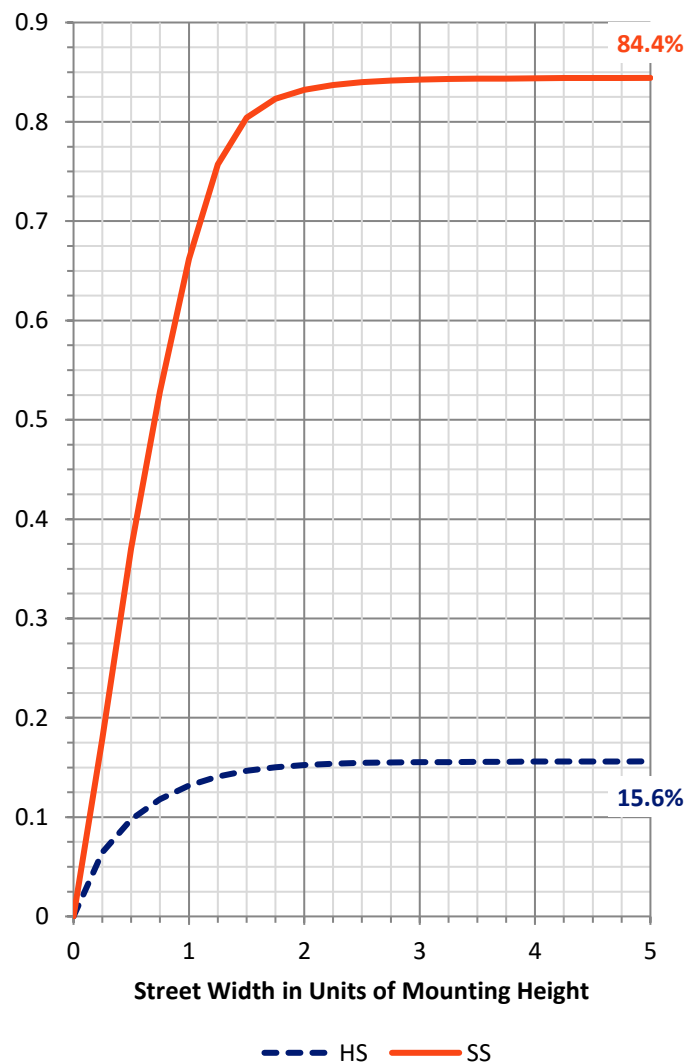
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2852.8	0.0	2852.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	15307.2	0.0	15307.2
	% Fixture	84.3	0.0	84.3
Total	Lumens	18160.0	0.0	18160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.5	1.7
10°-20°	978.2	5.4
20°-30°	1773.8	9.8
30°-40°	3059.1	16.8
40°-50°	4969.5	27.4
50°-60°	5238.1	28.8
60°-70°	1600.5	8.8
70°-80°	205.2	1.1
80°-90°	31.2	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°	18160.0	100.0
0°-180°	18160.0	100.0

Coefficient of Utilization



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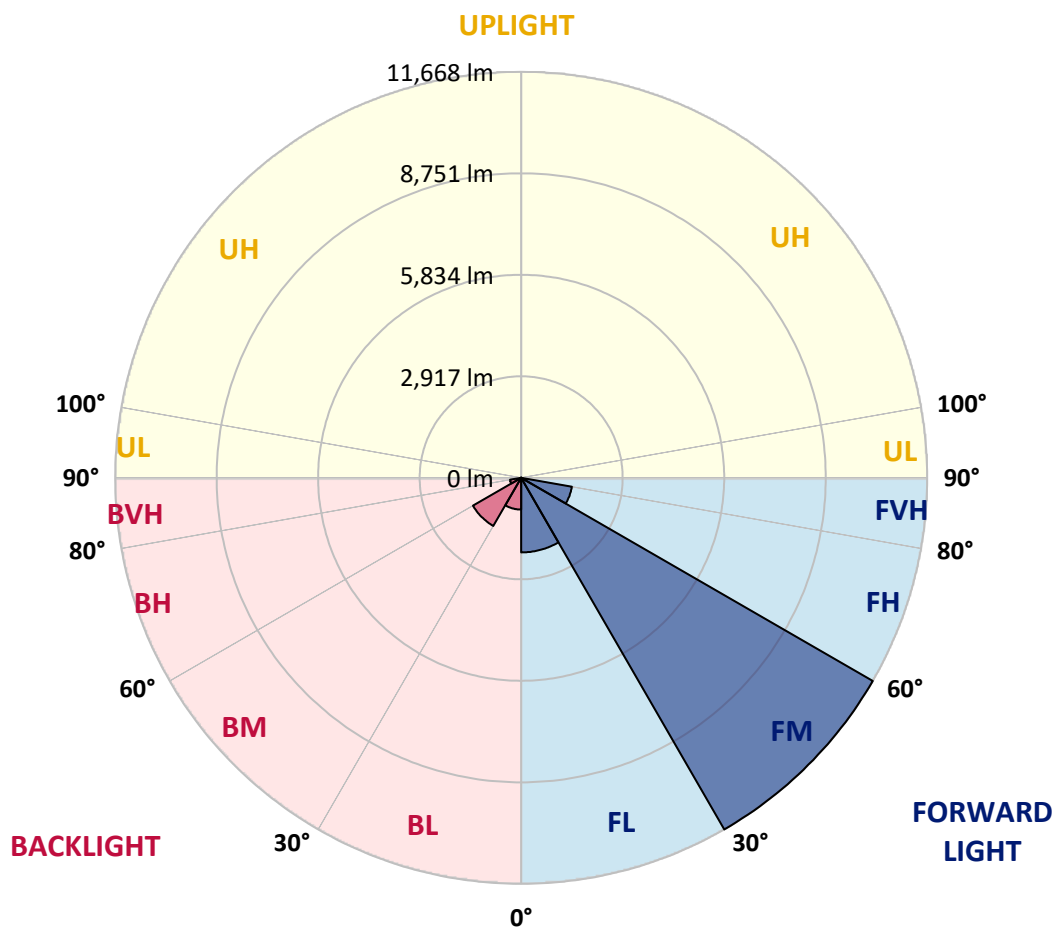
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2143.9	11.8			
FM	(30°-60°)	11667.8	64.2			
FH	(60°-80°)	1480.2	8.2			G1/1800
FVH	(80°-90°)	15.3	0.1			G1/100
BL	(0°-30°)	912.6	5.0	B2/1000		
BM	(30°-60°)	1598.9	8.8	B2/2500		
BH	(60°-80°)	325.5	1.8	B1/500		G1/500
BVH	(80°-90°)	15.9	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3022.8	3022.8	3022.8	3022.8	3022.8	3022.8	3022.8	3022.8	3022.8	3022.8	3022.8
2.5°	3481.4	3401.0	3404.4	3397.7	3387.6	3350.8	3240.3	3223.6	3150.0	3129.9	3062.9
5°	3899.8	3829.5	3869.7	3809.4	3752.5	3719.0	3538.3	3454.6	3337.4	3293.9	3200.2
7.5°	4160.9	4127.4	4114.0	4117.4	4063.8	3980.1	3899.8	3715.7	3558.4	3524.9	3327.4
10°	4288.1	4268.0	4288.1	4278.1	4301.5	4311.5	4170.9	4060.5	3829.5	3772.6	3464.6
12.5°	4318.2	4358.4	4375.1	4418.7	4475.6	4572.6	4562.6	4412.0	4104.0	4067.2	3675.5
15°	4391.9	4425.3	4408.6	4478.9	4586.0	4750.1	4837.1	4813.7	4482.3	4415.3	3919.9
17.5°	4458.8	4398.6	4455.5	4596.1	4703.2	4954.2	5165.1	5262.2	4894.0	4817.0	4144.2
20°	4549.2	4532.5	4522.4	4592.7	4783.5	5118.3	5536.7	5714.1	5355.9	5275.6	4465.5
22.5°	4823.7	4827.0	4820.3	4716.6	4853.8	5232.1	5861.4	6299.9	5908.3	5841.3	4830.4
25°	5185.2	5141.7	5108.2	5024.5	5007.8	5335.9	6189.5	7016.3	6571.1	6524.2	5225.4
27.5°	5566.8	5566.8	5466.4	5389.4	5282.3	5593.6	6490.7	7712.6	7371.1	7307.5	5570.2
30°	5981.9	6005.3	5992.0	5827.9	5761.0	5874.8	6798.7	8603.0	8288.3	8208.0	6139.2
32.5°	6594.5	6544.3	6601.2	6464.0	6266.5	6366.9	7284.1	9399.7	9480.0	9366.2	6885.7
35°	7404.6	7374.5	7337.6	7113.4	6879.0	6959.4	7970.3	10380.5	10976.3	10919.4	7638.9
37.5°	8131.0	8114.3	8084.1	7930.1	7659.0	7756.1	8750.3	11401.5	12435.8	12248.4	8703.4
40°	8894.2	8984.6	8887.5	8750.3	8502.6	8716.8	9667.5	12007.4	13664.3	13436.7	9516.8
42.5°	9928.6	9858.3	9901.8	9650.7	9516.8	9751.2	10588.0	12613.2	14618.4	14347.2	10380.5
45°	11029.9	11033.2	10916.1	10835.7	10487.6	10742.0	11153.7	12948.0	15378.2	15167.4	11033.2
47.5°	11736.2	11732.9	11860.1	11987.3	11629.1	11378.0	11538.7	13266.0	15769.9	15672.8	11270.9
50°	11625.7	11659.2	11823.2	12298.6	12486.0	12147.9	11900.2	13172.3	15947.3	15937.3	11475.1
52.5°	10112.7	10223.2	10497.6	11183.9	12127.9	12546.3	12278.5	13346.3	16034.3	16051.1	11779.7
55°	7699.2	7759.4	8281.6	9115.1	10159.6	11592.3	12127.9	13483.6	16101.3	16131.4	12147.9
56°	6678.2	6517.5	7270.7	7863.2	9111.8	10678.4	11746.2	13376.5	16061.1	16292.1	12332.1
57.5°	5041.3	4934.2	5543.4	6283.2	7484.9	9138.6	10561.2	12871.0	15790.0	15786.6	12067.6
60°	3066.3	2959.2	3427.8	3863.0	4535.8	5627.1	7136.8	10249.9	13349.7	13630.9	9771.2
62.5°	1824.4	1891.3	2353.3	2617.7	2835.3	2949.1	3692.3	6092.4	8907.6	9108.4	6062.3
65°	1215.1	1238.6	1586.7	2021.9	2118.9	1687.1	1503.0	2467.1	3863.0	3739.1	2500.6
67.5°	749.8	803.4	1064.5	1519.7	1683.8	1231.9	713.0	920.6	1064.5	1064.5	723.1
70°	455.3	482.0	709.7	1034.4	1154.9	793.3	518.9	518.9	512.2	502.1	431.8
72.5°	217.6	234.3	361.5	532.2	542.3	418.4	401.7	438.5	428.5	425.1	358.2
75°	93.7	100.4	127.2	167.4	190.8	177.4	244.4	314.7	324.7	314.7	257.8
77.5°	30.1	33.5	46.9	60.3	63.6	77.0	103.8	130.6	150.6	140.6	127.2
80°	3.3	6.7	13.4	30.1	46.9	60.3	77.0	87.0	97.1	97.1	90.4
82.5°	3.3	3.3	13.4	26.8	43.5	56.9	73.6	83.7	97.1	100.4	93.7
85°	0.0	3.3	10.0	23.4	36.8	36.8	33.5	33.5	23.4	23.4	23.4
87.5°	0.0	0.0	3.3	3.3	3.3	6.7	6.7	6.7	6.7	6.7	6.7
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°	3022.8	3022.8	3022.8	3022.8	3022.8	3022.8	3022.8	3022.8	3022.8	3022.8	3022.8
2.5°	3049.5	3042.8	2952.5	2895.6	2865.4	2805.2	2768.4	2741.6	2721.5	2698.1	2701.4
5°	3089.7	3066.3	2915.6	2811.9	2688.0	2621.1	2564.2	2517.3	2487.2	2480.5	2467.1
7.5°	3203.5	3079.7	2852.0	2664.6	2507.2	2440.3	2390.1	2360.0	2373.4	2343.2	2366.7
10°	3290.6	3106.4	2775.0	2503.9	2346.6	2296.4	2269.6	2293.0	2326.5	2313.1	2296.4
12.5°	3397.7	3133.2	2651.2	2349.9	2202.6	2165.8	2212.7	2256.2	2323.1	2349.9	2316.4
15°	3518.2	3163.4	2493.9	2172.5	2078.8	2108.9	2189.2	2266.2	2333.2	2366.7	2386.7
17.5°	3665.5	3153.3	2339.9	2031.9	1961.6	2048.6	2145.7	2216.0	2316.4	2366.7	2353.3
20°	3802.7	3119.8	2169.2	1891.3	1894.7	1975.0	2055.3	2169.2	2222.7	2289.7	2266.2
22.5°	3933.3	3059.6	1991.7	1794.2	1794.2	1918.1	1958.3	2031.9	2078.8	2112.2	2108.9
25°	4117.4	2945.8	1844.5	1700.5	1740.7	1821.0	1854.5	1877.9	1857.8	1884.6	1888.0
27.5°	4247.9	2828.6	1723.9	1616.8	1690.5	1750.7	1740.7	1727.3	1680.4	1643.6	1667.0
30°	4388.5	2691.4	1620.2	1559.9	1600.1	1653.6	1613.5	1573.3	1499.7	1439.4	1442.8
32.5°	4589.4	2627.8	1529.8	1493.0	1546.5	1553.2	1509.7	1449.5	1375.8	1318.9	1315.6
35°	4964.3	2587.6	1452.8	1449.5	1459.5	1462.8	1419.3	1345.7	1315.6	1268.7	1285.4
37.5°	5339.2	2567.5	1399.2	1385.8	1382.5	1385.8	1335.6	1265.3	1322.2	1318.9	1325.6
40°	5817.9	2657.9	1322.2	1305.5	1308.9	1308.9	1245.3	1225.2	1325.6	1335.6	1339.0
42.5°	6303.3	2771.7	1272.0	1218.5	1231.9	1231.9	1198.4	1175.0	1245.3	1178.3	1168.3
45°	6725.1	2939.1	1218.5	1131.4	1164.9	1181.7	1171.6	1131.4	1087.9	974.1	974.1
47.5°	6862.3	3086.4	1154.9	1047.8	1074.5	1148.2	1118.1	1034.4	957.4	863.6	857.0
50°	7103.3	3247.0	1104.7	950.7	1007.6	1098.0	1067.8	984.2	897.1	830.2	833.5
52.5°	7351.0	3431.1	1010.9	836.9	907.2	1057.8	1057.8	964.1	830.2	783.3	776.6
55°	7722.6	3424.5	843.6	686.2	810.1	997.5	1014.3	863.6	743.1	706.3	706.3
56°	7776.2	3270.5	759.9	642.7	766.6	980.8	984.2	836.9	709.7	669.5	669.5
57.5°	7374.5	2952.5	666.1	589.2	713.0	950.7	954.0	813.4	682.9	626.0	619.3
60°	5674.0	1998.4	555.7	525.6	646.1	857.0	873.7	739.8	599.2	555.7	552.3
62.5°	3203.5	1108.0	488.7	475.3	555.7	729.7	780.0	646.1	508.8	485.4	492.1
65°	1462.8	609.2	411.7	385.0	448.6	562.4	629.3	532.2	418.4	391.7	391.7
67.5°	535.6	415.1	351.5	304.6	314.7	364.9	408.4	344.8	277.8	237.7	247.7
70°	381.6	348.1	308.0	264.4	244.4	237.7	234.3	194.2	137.2	107.1	113.8
72.5°	308.0	287.9	257.8	224.3	190.8	160.7	137.2	100.4	63.6	43.5	40.2
75°	220.9	210.9	187.5	160.7	133.9	113.8	93.7	63.6	33.5	16.7	16.7
77.5°	113.8	113.8	110.5	100.4	83.7	66.9	53.6	36.8	20.1	6.7	6.7
80°	87.0	93.7	97.1	87.0	77.0	60.3	43.5	26.8	13.4	3.3	3.3
82.5°	83.7	97.1	103.8	90.4	77.0	56.9	43.5	26.8	13.4	3.3	3.3
85°	20.1	20.1	30.1	33.5	43.5	46.9	36.8	23.4	10.0	3.3	3.3
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	3.3	3.3	3.3	3.3	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)