

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: P952719

Luminaire Tested: **GALN-SB6C-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952719
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6C-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42905 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 300.9
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

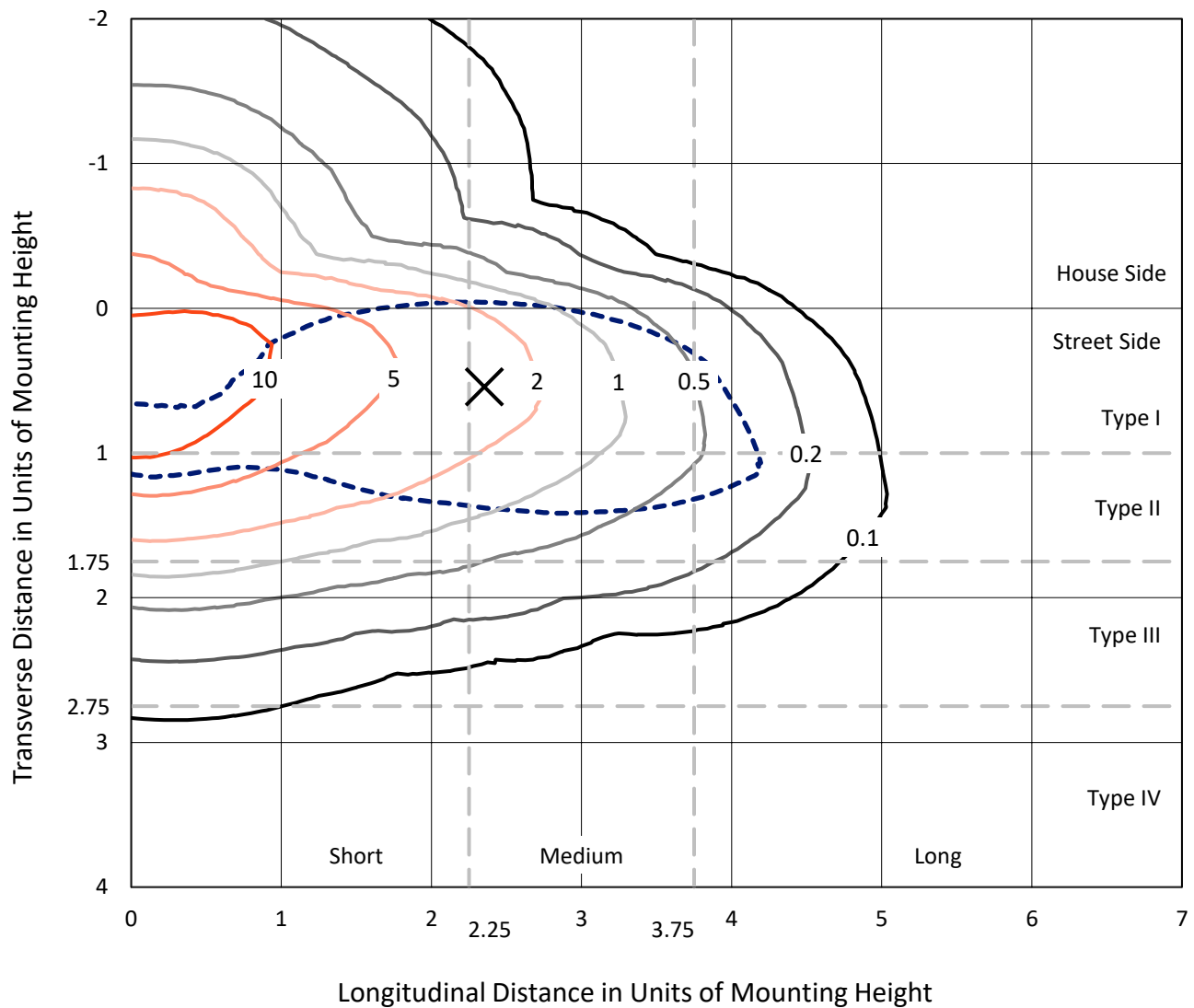


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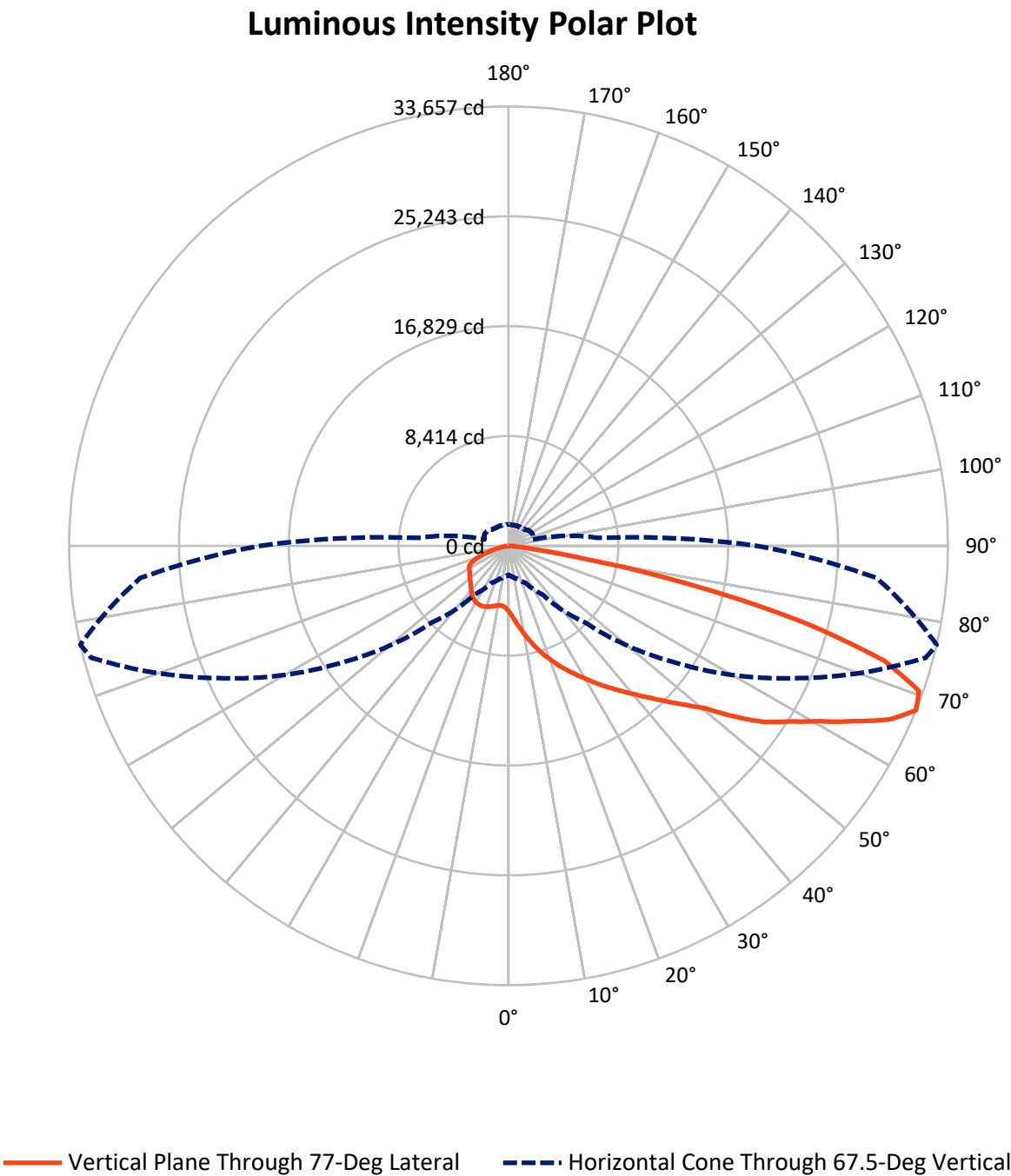
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
Type II - Medium - N/A

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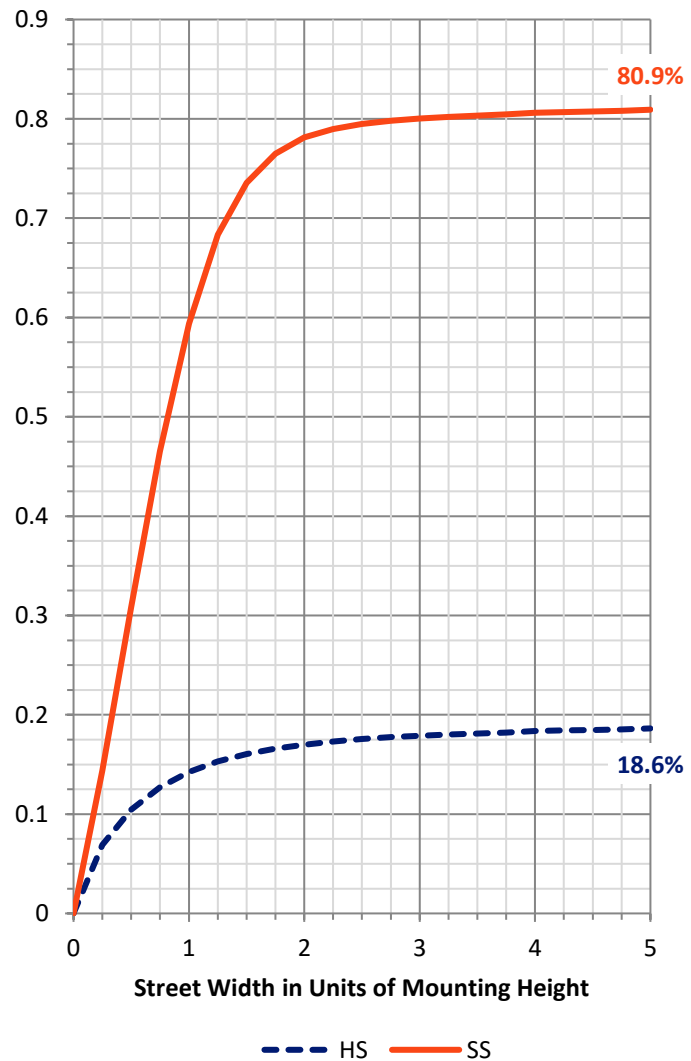
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8115.9	0.0	8115.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	34789.1	0.0	34789.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	42905.0	0.0	42905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.6	1.3
10°-20°	1938.5	4.5
20°-30°	3660.1	8.5
30°-40°	5896.4	13.7
40°-50°	8065.2	18.8
50°-60°	9097.6	21.2
60°-70°	8491.5	19.8
70°-80°	4654.7	10.8
80°-90°	561.5	1.3
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°	42905.0	100.0
0°-180°	42905.0	100.0

Coefficient of Utilization



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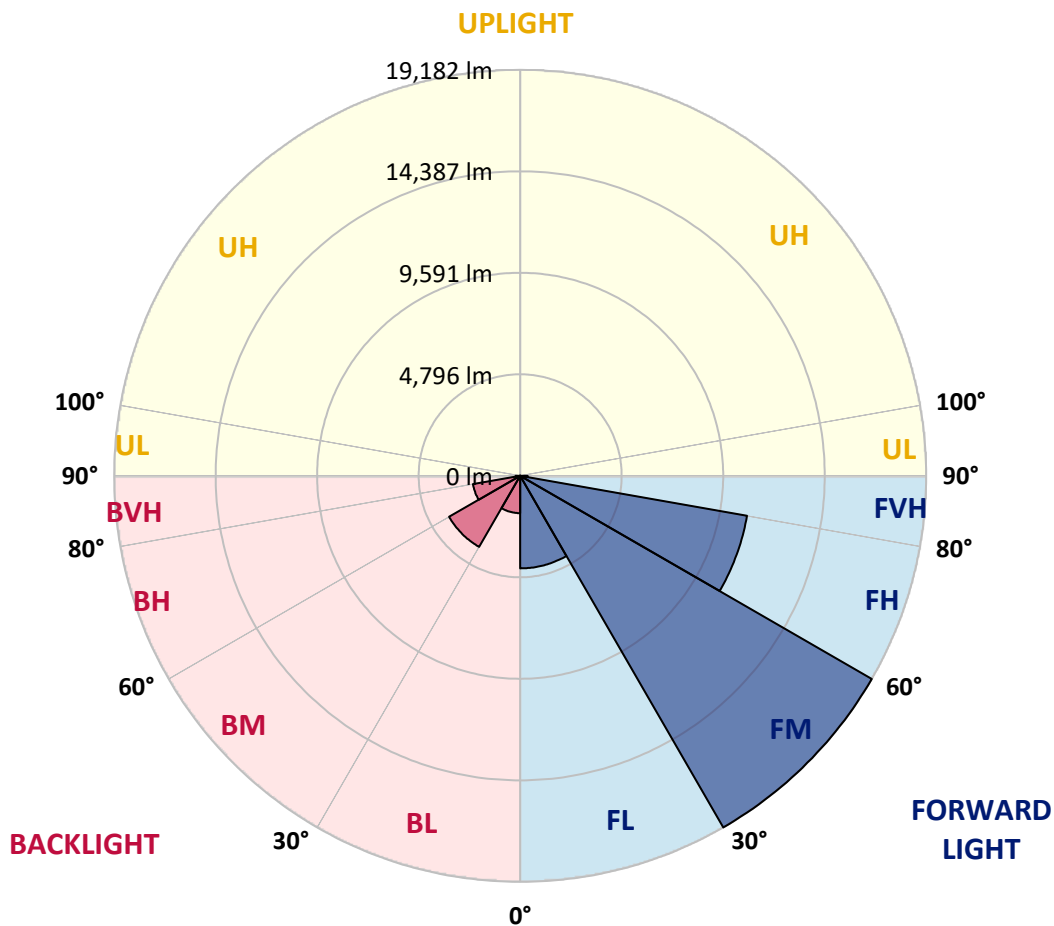
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4373.6	10.2			
FM	(30°-60°)	19182.4	44.7			
FH	(60°-80°)	10882.0	25.4			G4/12000
FVH	(80°-90°)	351.1	0.8			G3/500
BL	(0°-30°)	1764.6	4.1	B3/2500		
BM	(30°-60°)	3876.8	9.0	B3/5000		
BH	(60°-80°)	2264.2	5.3	B3/2500		G3/2500
BVH	(80°-90°)	210.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5034.1	5034.1	5034.1	5034.1	5034.1	5034.1	5034.1	5034.1	5034.1	5034.1	5034.1
2.5°	6303.1	6347.4	6292.1	6292.1	6106.0	6008.6	5822.5	5680.8	5426.1	5381.8	5213.5
5°	7450.4	7505.7	7428.2	7395.0	7175.7	6974.2	6661.9	6354.1	5900.1	5853.5	5457.1
7.5°	8338.5	8409.3	8340.7	8305.3	8110.4	7884.5	7519.0	7089.4	6449.3	6358.5	5784.9
10°	9062.7	9073.8	9051.6	9064.9	8912.1	8726.1	8351.8	7851.2	7051.7	6927.7	6181.3
12.5°	9472.4	9523.4	9567.6	9647.4	9620.8	9505.6	9169.0	8571.0	7689.6	7530.1	6613.2
15°	9665.1	9753.7	9853.3	10037.2	10185.6	10214.4	9957.4	9344.0	8338.5	8145.8	7049.5
17.5°	9733.8	9817.9	9975.2	10240.9	10559.8	10774.7	10659.5	10094.8	8980.7	8759.3	7507.9
20°	10081.5	10105.8	10201.1	10453.5	10799.0	11155.6	11242.0	10816.8	9616.4	9366.1	7981.9
22.5°	10825.6	10776.9	10803.5	10918.6	11166.7	11512.2	11709.3	11454.6	10269.7	9981.8	8460.3
25°	12054.8	11913.1	11771.3	11638.4	11764.7	11959.6	12183.2	12092.4	10954.1	10588.6	8943.1
27.5°	13607.3	13434.6	13122.3	12686.0	12533.2	12601.8	12701.5	12683.8	11587.5	11217.6	9441.4
30°	15135.5	14933.9	14561.9	13930.7	13527.6	13346.0	13270.7	13219.7	12276.3	11882.0	9944.2
32.5°	16355.8	16196.3	15830.9	15124.4	14539.7	14229.7	13979.4	13797.8	12996.1	12601.8	10475.7
35°	17423.3	17274.9	16856.3	16085.6	15450.0	15120.0	14792.2	14404.6	13744.6	13346.0	11047.1
37.5°	18397.8	18249.4	17675.8	16874.1	16234.0	16005.9	15713.5	15055.8	14495.4	14118.9	11651.7
40°	19013.5	18980.3	18444.3	17536.3	16871.8	16758.9	16661.4	15811.0	15328.2	14978.2	12316.1
42.5°	19170.7	19243.8	18818.6	18072.2	17438.8	17348.0	17576.1	16665.9	16262.8	15928.4	13069.1
45°	18792.0	19002.4	18723.4	18216.2	17841.9	17793.2	18386.7	17600.5	17297.1	16991.4	13977.2
47.5°	17833.0	18189.6	18074.4	18003.6	17950.4	18160.8	19099.9	18592.7	18468.7	18202.9	15013.7
50°	15897.4	16572.9	16774.4	17221.8	17735.6	18446.5	19748.8	19675.7	19837.4	19569.4	16276.1
52.5°	12550.9	13481.1	14650.5	15771.1	17075.6	18351.3	20461.9	21230.4	21912.6	21766.4	18282.6
55°	10360.5	10779.1	11678.3	13733.6	15795.5	17950.4	20783.1	22486.2	23972.3	23841.6	19804.1
57.5°	8677.3	9051.6	9605.3	11321.7	13859.8	17040.2	20982.4	23252.5	25383.1	25369.8	21305.7
60°	6872.3	7268.8	7835.7	9051.6	11598.6	15467.7	20938.1	24125.1	27183.6	27294.4	23137.3
62.5°	4834.8	5271.1	5900.1	7034.0	9288.6	13430.1	20034.5	24756.3	29303.1	29604.3	25341.0
65°	3178.1	3466.1	3940.0	4918.9	6921.0	10810.1	18309.2	24838.2	31571.0	32080.4	27409.5
67.5°	2228.0	2338.8	2617.8	3149.4	4562.4	8289.7	15560.7	23990.0	33083.7	33657.3	28306.5
70°	1738.6	1793.9	1935.7	2148.3	2865.9	5574.5	11924.1	21784.1	32760.3	33358.3	27369.7
72.5°	1501.6	1554.7	1607.9	1634.5	1922.4	3441.7	8077.1	18214.0	29715.1	30120.4	23797.3
75°	1362.1	1375.3	1419.6	1410.8	1466.2	2232.5	4662.0	13270.7	23445.2	23305.6	17567.3
77.5°	1145.0	1162.7	1235.8	1224.7	1302.3	1526.0	2420.7	8564.4	15199.7	14251.8	9778.0
80°	970.1	978.9	1058.6	1045.4	1131.7	1105.2	1235.8	4365.2	6447.1	5461.5	2819.4
82.5°	336.6	416.4	808.4	832.7	863.7	668.8	713.1	1780.6	1968.9	1508.2	591.3
85°	163.9	175.0	411.9	584.7	582.5	336.6	347.7	635.6	620.1	487.2	197.1
87.5°	26.6	33.2	48.7	228.1	181.6	88.6	119.6	124.0	128.5	110.7	44.3
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°	5034.1	5034.1	5034.1	5034.1	5034.1	5034.1	5034.1	5034.1	5034.1	5034.1	5034.1
2.5°	5089.5	4978.7	4746.2	4531.3	4363.0	4201.3	4110.5	4033.0	3988.7	3979.9	3979.9
5°	5226.8	4998.7	4575.6	4219.1	3986.5	3813.8	3723.0	3665.4	3636.6	3618.9	3616.7
7.5°	5423.9	5089.5	4487.1	4081.8	3838.1	3714.1	3667.6	3658.7	3656.5	3658.7	3665.4
10°	5696.3	5237.8	4478.2	4048.5	3844.8	3776.1	3773.9	3776.1	3785.0	3787.2	3789.4
12.5°	5990.9	5390.7	4513.6	4077.3	3928.9	3891.3	3884.6	3882.4	3889.1	3893.5	3895.7
15°	6312.0	5592.2	4573.4	4139.3	4022.0	3982.1	3975.4	3962.2	3959.9	3957.7	3955.5
17.5°	6642.0	5791.5	4639.9	4205.8	4081.8	4026.4	4002.0	3971.0	3946.7	3940.0	3946.7
20°	6976.4	5988.6	4686.4	4239.0	4086.2	4008.7	3959.9	3906.8	3864.7	3840.3	3849.2
22.5°	7333.0	6194.6	4715.2	4230.1	4046.3	3940.0	3851.4	3789.4	3725.2	3683.1	3685.3
25°	7680.7	6374.0	4713.0	4183.6	3968.8	3833.7	3720.8	3641.0	3552.4	3508.1	3508.1
27.5°	8015.1	6535.7	4657.6	4101.7	3858.1	3707.5	3572.4	3477.1	3390.8	3348.7	3346.5
30°	8360.6	6670.8	4571.2	3982.1	3727.4	3561.3	3412.9	3331.0	3253.4	3213.6	3211.4
32.5°	8703.9	6794.8	4449.4	3833.7	3576.8	3417.3	3271.2	3195.9	3149.4	3149.4	3151.6
35°	9067.1	6881.2	4287.7	3661.0	3417.3	3264.5	3149.4	3105.1	3100.6	3074.1	3067.4
37.5°	9450.3	6936.5	4090.6	3483.8	3260.1	3116.1	3080.7	3027.5	2983.2	2925.7	2916.8
40°	9853.3	6991.9	3853.6	3300.0	3094.0	3014.3	2998.7	2927.9	2801.6	2659.9	2640.0
42.5°	10342.8	7029.6	3607.8	3116.1	2919.0	2892.4	2914.6	2792.8	2591.2	2484.9	2487.1
45°	10909.8	7091.6	3381.9	2934.5	2739.6	2739.6	2832.6	2673.2	2507.1	2440.6	2451.7
47.5°	11645.1	7235.5	3171.5	2735.2	2573.5	2617.8	2651.0	2529.2	2436.2	2354.3	2352.0
50°	12708.1	7581.0	2954.5	2533.7	2447.3	2535.9	2489.4	2418.5	2310.0	2243.5	2236.9
52.5°	14028.1	7784.8	2761.8	2352.0	2338.8	2427.3	2360.9	2294.5	2212.5	2123.9	2106.2
55°	14927.3	7822.4	2600.1	2219.2	2265.7	2256.8	2232.5	2172.7	2128.4	2011.0	2013.2
57.5°	15932.8	7897.7	2467.2	2139.4	2219.2	2121.7	2112.9	2061.9	2004.3	1924.6	1898.0
60°	17135.4	8015.1	2352.0	2108.4	2179.3	2033.1	1988.8	1968.9	1911.3	1871.4	1882.5
62.5°	18446.5	8121.4	2234.7	2112.9	2132.8	1946.8	1880.3	1873.7	1838.2	1824.9	1824.9
65°	19341.3	7831.3	2088.5	2108.4	2059.7	1858.2	1774.0	1771.8	1743.0	1738.6	1736.4
67.5°	19029.0	6912.2	1891.4	2046.4	1984.4	1769.6	1676.6	1667.7	1630.0	1632.3	1632.3
70°	17465.4	5601.1	1619.0	1893.6	1891.4	1689.8	1574.7	1545.9	1494.9	1503.8	1512.7
72.5°	14533.1	4150.4	1253.5	1638.9	1743.0	1616.8	1457.3	1410.8	1346.6	1355.4	1353.2
75°	10495.6	2821.6	912.5	1246.9	1517.1	1530.4	1342.1	1262.4	1184.9	1198.2	1202.6
77.5°	5370.7	1599.0	671.1	859.3	1191.5	1390.9	1238.0	1131.7	1114.0	1238.0	1220.3
80°	1751.9	801.7	465.1	602.4	781.8	1138.4	1085.2	963.4	959.0	987.8	848.2
82.5°	522.7	338.9	299.0	396.4	431.9	872.6	936.8	728.6	626.8	660.0	682.1
85°	179.4	163.9	170.5	197.1	206.0	511.6	655.6	482.8	456.2	502.7	496.1
87.5°	42.1	57.6	48.7	44.3	44.3	124.0	254.7	201.5	279.1	186.0	179.4
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)