

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: P955196

Luminaire Tested: **GALN-SB8B-722-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-722-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31848 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 292.8
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



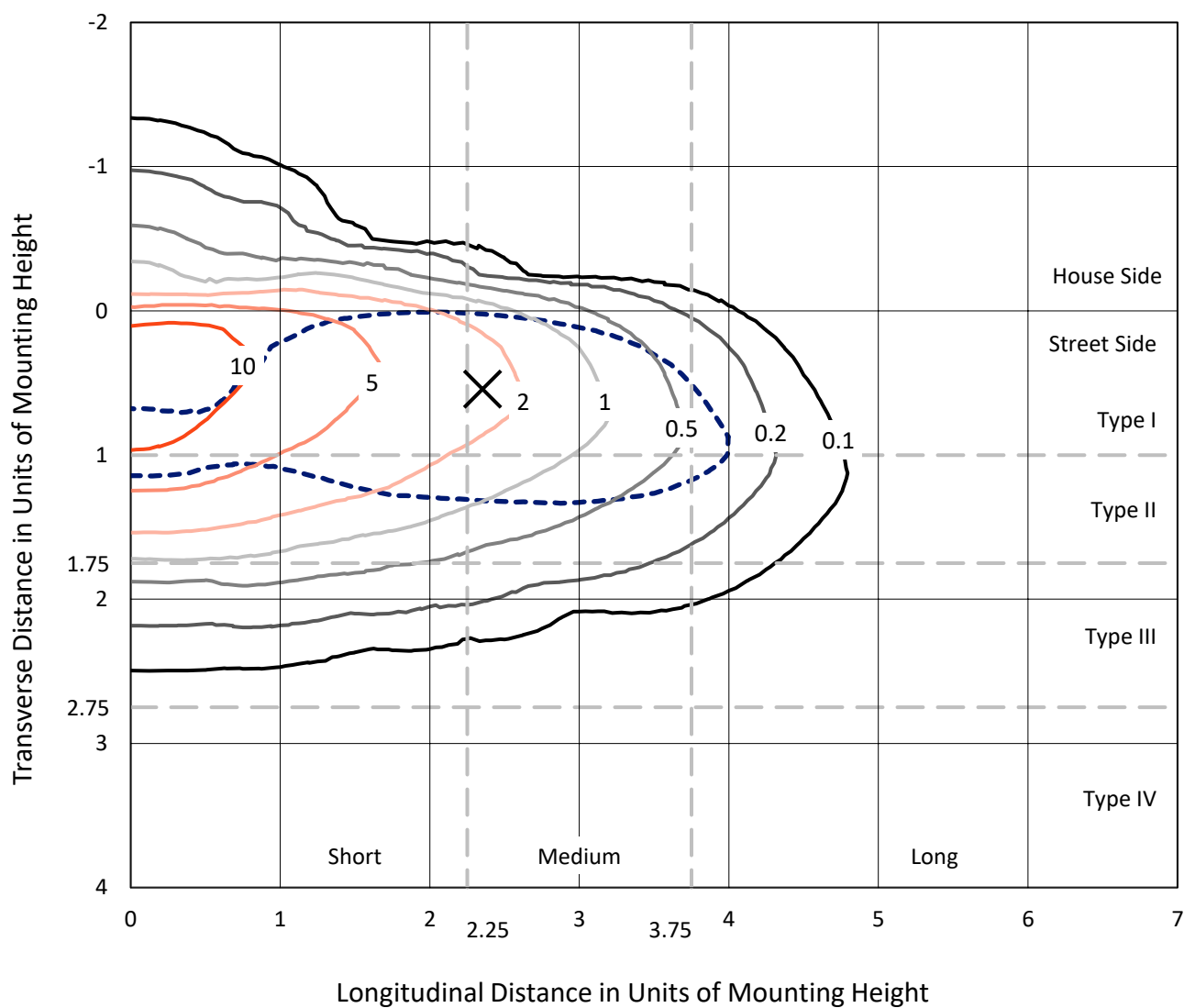
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

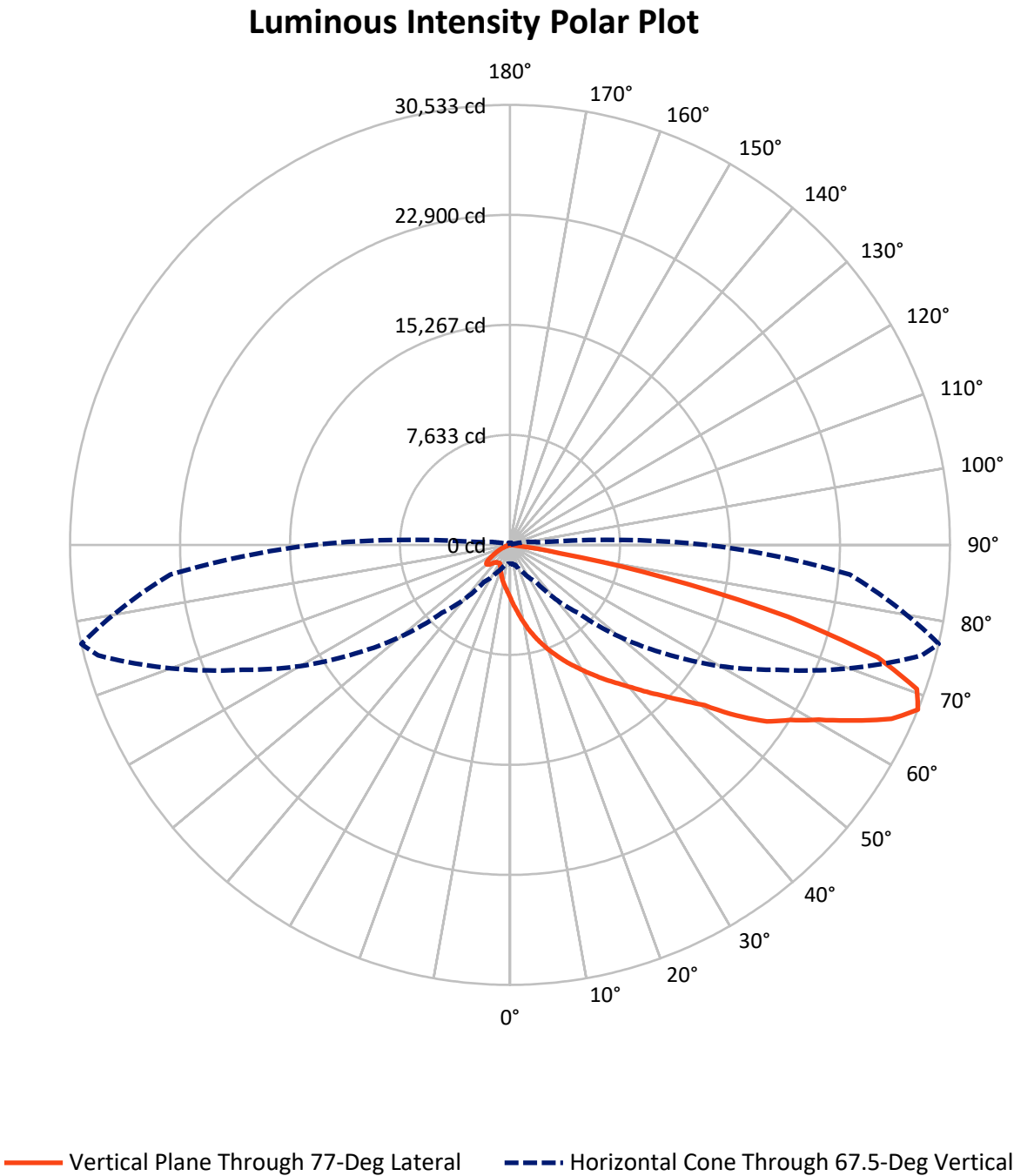
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc

Type II - Medium - N/A

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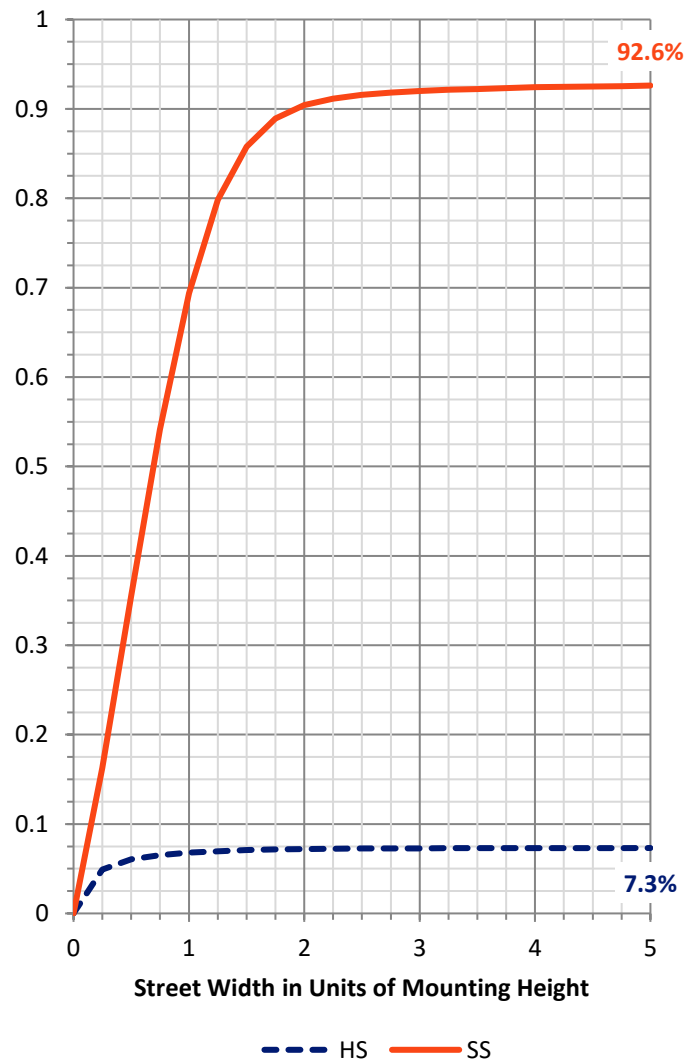
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2343.1	0.0	2343.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	29504.9	0.0	29504.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	31848.0	0.0	31848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.8	1.2
10°-20°	1312.7	4.1
20°-30°	2533.1	8.0
30°-40°	4397.5	13.8
40°-50°	6385.0	20.0
50°-60°	7332.4	23.0
60°-70°	6365.9	20.0
70°-80°	2998.4	9.4
80°-90°	148.3	0.5
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°	31848.0	100.0
0°-180°	31848.0	100.0

Coefficient of Utilization



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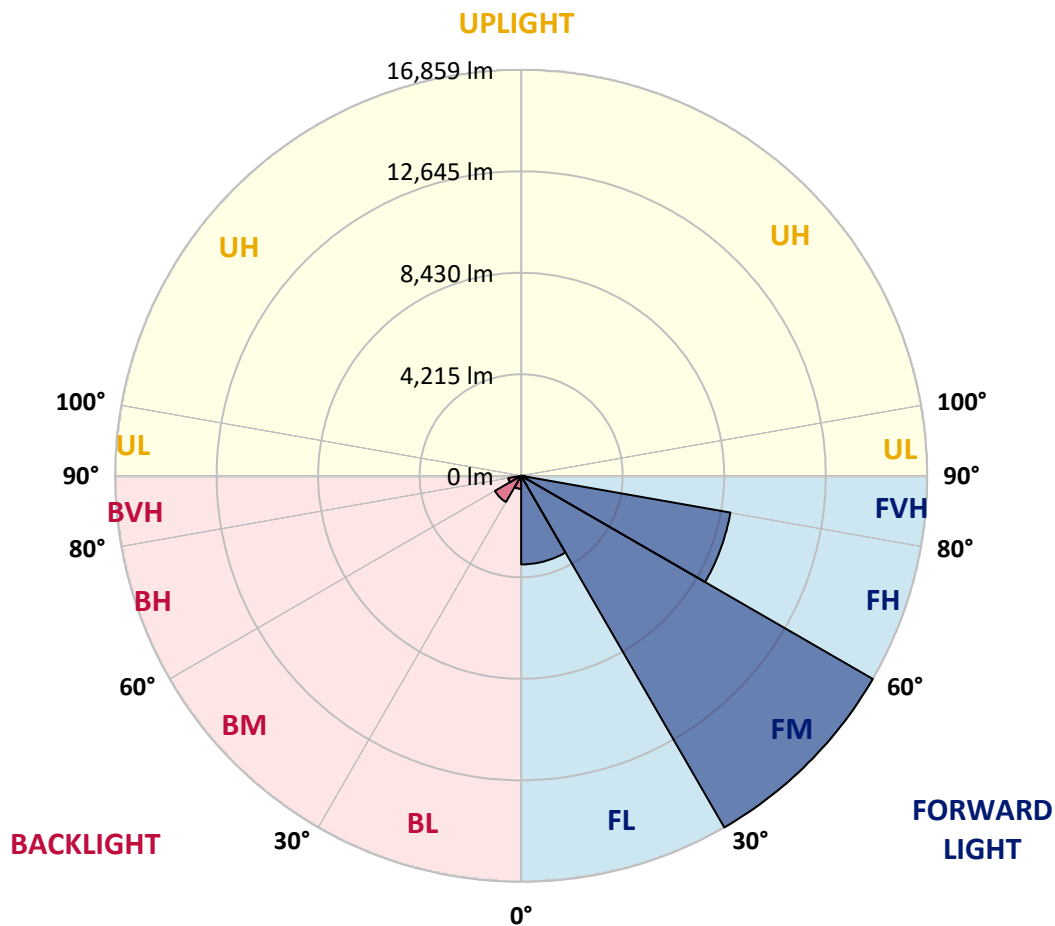
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3678.1	11.5			
FM	(30°-60°)	16859.5	52.9			
FH	(60°-80°)	8821.8	27.7			G4/12000
FVH	(80°-90°)	145.6	0.5			G2/225
BL	(0°-30°)	542.5	1.7	B2/1000		
BM	(30°-60°)	1255.4	3.9	B2/2500		
BH	(60°-80°)	542.4	1.7	B2/1000		G2/1000
BVH	(80°-90°)	2.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5
2.5°	5084.6	5116.2	5070.8	4983.7	4853.2	4768.2	4560.5	4364.7	4147.2	4078.0	3860.4
5°	6198.0	6225.7	6174.3	6079.4	5905.3	5739.2	5466.3	5056.9	4631.7	4495.3	4109.6
7.5°	7022.7	7038.5	7018.8	6931.8	6765.6	6577.7	6273.2	5788.7	5157.8	5007.5	4416.1
10°	7616.0	7667.4	7661.5	7627.9	7517.1	7364.9	7040.5	6488.8	5747.1	5553.3	4762.2
12.5°	8009.6	8066.9	8100.6	8175.7	8169.8	8072.9	7788.1	7204.7	6334.5	6107.1	5151.8
15°	8124.3	8185.6	8314.1	8488.2	8642.4	8691.9	8492.1	7906.7	6981.2	6690.5	5551.3
17.5°	8059.0	8154.0	8308.2	8583.1	8921.3	9144.8	9123.0	8585.1	7568.6	7236.3	5942.9
20°	8203.4	8294.4	8415.0	8646.4	9040.0	9445.4	9607.5	9233.8	8152.0	7803.9	6354.3
22.5°	9002.4	8986.6	8998.4	9036.0	9271.3	9672.8	10007.0	9823.1	8729.5	8373.5	6789.4
25°	10268.1	10196.9	10076.3	9872.6	9813.2	10007.0	10355.1	10345.2	9338.6	8956.9	7234.3
27.5°	11719.7	11707.8	11425.0	10934.6	10657.7	10582.5	10748.7	10853.5	9941.8	9534.4	7681.3
30°	13110.0	13141.7	12760.0	12214.1	11705.9	11411.2	11260.9	11336.0	10554.9	10157.3	8142.1
32.5°	14320.3	14354.0	13938.7	13299.9	12671.0	12315.0	11998.6	11812.7	11223.3	10790.2	8648.4
35°	15342.8	15376.4	14899.8	14193.8	13523.3	13201.0	12843.0	12334.8	11895.7	11492.3	9212.0
37.5°	16256.5	16246.6	15607.8	14895.8	14237.3	13982.2	13794.3	12977.5	12587.9	12198.3	9837.0
40°	16796.4	16837.9	16292.1	15506.9	14868.2	14682.3	14670.4	13774.5	13386.9	13009.1	10521.2
42.5°	16954.6	17027.8	16632.2	15987.5	15408.1	15206.3	15516.8	14636.8	14316.4	13948.5	11294.5
45°	16669.8	16741.0	16561.1	16114.1	15775.9	15645.4	16244.6	15530.7	15309.2	14945.3	12166.7
47.5°	15839.2	15928.2	15971.7	15876.8	15872.8	16005.3	16897.3	16472.1	16487.9	16116.1	13177.2
50°	14231.3	14381.7	14781.1	15117.3	15637.5	16290.1	17532.1	17492.5	17816.9	17496.5	14494.4
52.5°	11308.3	11521.9	12898.4	13818.0	14986.8	16236.7	18230.2	19130.1	20148.6	19679.8	16351.4
55°	9087.4	9087.4	10206.8	11927.4	13717.2	15884.7	18534.8	20194.0	21736.6	21625.9	17658.7
57.5°	7408.4	7497.4	8211.3	9732.1	11879.9	15046.2	18722.6	20862.5	23016.2	22935.1	18936.2
60°	4572.4	4764.2	6113.0	7614.0	9789.5	13553.0	18604.0	21538.9	24568.7	24633.9	20474.9
62.5°	2574.9	2646.1	3247.3	5478.2	7612.1	11545.7	17696.2	21916.6	26554.2	26831.1	22061.0
65°	1777.9	1813.5	2044.9	3409.5	5276.4	9192.2	15922.3	21681.3	28543.8	29103.5	23405.8
67.5°	1291.4	1309.2	1453.6	2082.5	3130.7	6664.8	13141.7	20494.6	29597.9	30533.3	23662.9
70°	992.8	1004.7	1109.5	1368.6	1849.1	4113.6	9544.3	18135.3	28834.5	29951.9	22345.8
72.5°	806.9	818.8	899.8	1012.6	1226.2	2432.5	5784.7	14727.7	25464.5	26670.9	19023.3
75°	680.3	696.1	769.3	842.5	961.2	1562.4	2713.4	10256.2	19149.8	19940.9	13228.7
77.5°	377.7	348.1	624.9	698.1	810.8	988.8	1269.7	6035.9	10724.9	10944.5	5869.7
80°	235.3	243.3	496.4	561.7	623.0	498.4	581.4	2323.8	3718.0	3532.1	1137.2
82.5°	13.8	31.6	381.7	405.4	427.2	213.6	219.5	789.1	895.9	822.7	201.7
85°	0.0	0.0	174.0	140.4	148.3	61.3	63.3	183.9	120.6	130.5	39.6
87.5°	0.0	0.0	0.0	4.0	0.0	5.9	11.9	15.8	5.9	7.9	13.8
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°	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5	3672.5
2.5°	3722.0	3583.5	3302.7	3027.8	2804.3	2596.7	2448.4	2307.9	2236.8	2232.8	2228.8
5°	3834.7	3544.0	2982.3	2485.9	2086.4	1766.1	1558.4	1410.1	1334.9	1309.2	1305.3
7.5°	3992.9	3555.9	2701.5	2011.3	1540.6	1265.7	1147.1	1099.6	1083.8	1066.0	1062.0
10°	4192.7	3583.5	2450.3	1619.7	1214.3	1075.9	1028.4	1008.6	996.7	984.9	980.9
12.5°	4416.1	3609.3	2201.2	1344.8	1067.9	996.7	963.1	939.4	923.6	909.7	905.8
15°	4633.7	3625.1	1942.1	1153.0	992.8	935.4	899.8	874.1	852.4	836.6	834.6
17.5°	4849.3	3646.8	1698.8	1038.3	931.5	874.1	838.5	806.9	789.1	771.3	769.3
20°	5088.6	3642.9	1469.4	957.2	870.2	812.8	775.2	745.6	727.8	708.0	706.0
22.5°	5310.1	3623.1	1267.7	888.0	806.9	751.5	710.0	680.3	662.5	646.7	644.7
25°	5565.2	3607.3	1099.6	824.7	747.6	692.2	646.7	619.0	599.2	585.4	583.4
27.5°	5810.4	3583.5	977.0	767.3	690.2	636.8	593.3	561.7	543.9	534.0	534.0
30°	6051.7	3577.6	931.5	712.0	638.8	585.4	541.9	512.2	498.4	494.4	492.4
32.5°	6342.4	3593.4	951.3	692.2	591.3	537.9	496.4	474.6	460.8	460.8	460.8
35°	6652.9	3589.5	980.9	710.0	559.7	490.5	458.8	445.0	431.1	431.1	431.1
37.5°	7042.5	3595.4	1004.7	739.7	547.8	450.9	433.1	415.3	407.4	407.4	407.4
40°	7623.9	3791.2	992.8	765.4	543.9	423.2	387.6	381.7	375.8	375.8	375.8
42.5°	8335.9	4216.4	1008.6	767.3	541.9	403.4	356.0	367.8	354.0	352.0	350.0
45°	9115.1	4681.2	1109.5	725.8	539.9	393.6	340.2	354.0	332.2	332.2	332.2
47.5°	9888.4	5142.0	1212.3	666.5	534.0	391.6	326.3	318.4	312.5	314.5	314.5
50°	10954.3	5517.7	1251.9	585.4	520.1	387.6	300.6	302.6	298.6	302.6	302.6
52.5°	12115.2	5596.8	1204.4	494.4	480.6	375.8	282.8	290.7	288.7	292.7	292.7
55°	12839.1	5511.8	994.8	411.4	419.3	328.3	265.0	280.8	280.8	280.8	280.8
57.5°	13586.6	5149.9	706.0	334.2	348.1	269.0	249.2	270.9	269.0	267.0	267.0
60°	14124.6	4564.5	464.8	274.9	276.9	221.5	231.4	255.1	253.1	243.3	243.3
62.5°	14526.0	3917.8	298.6	233.4	211.6	199.7	211.6	231.4	223.5	201.7	197.8
65°	14480.5	3021.9	229.4	199.7	174.0	174.0	183.9	201.7	178.0	142.4	138.4
67.5°	13636.1	2044.9	189.9	168.1	146.3	144.4	152.3	168.1	152.3	120.6	116.7
70°	12127.1	1336.9	152.3	130.5	116.7	106.8	122.6	144.4	128.5	96.9	93.0
72.5°	9842.9	814.8	114.7	94.9	85.0	69.2	96.9	118.7	102.8	71.2	67.2
75°	6368.1	415.3	79.1	61.3	45.5	41.5	71.2	89.0	71.2	43.5	37.6
77.5°	2436.5	174.0	43.5	27.7	23.7	19.8	39.6	53.4	29.7	9.9	7.9
80°	468.7	73.2	21.8	13.8	11.9	7.9	5.9	4.0	0.0	0.0	0.0
82.5°	81.1	23.7	7.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.7	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)