

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: P944328

Luminaire Tested: **GALN-SB9B-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-722-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32080 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 329.5
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



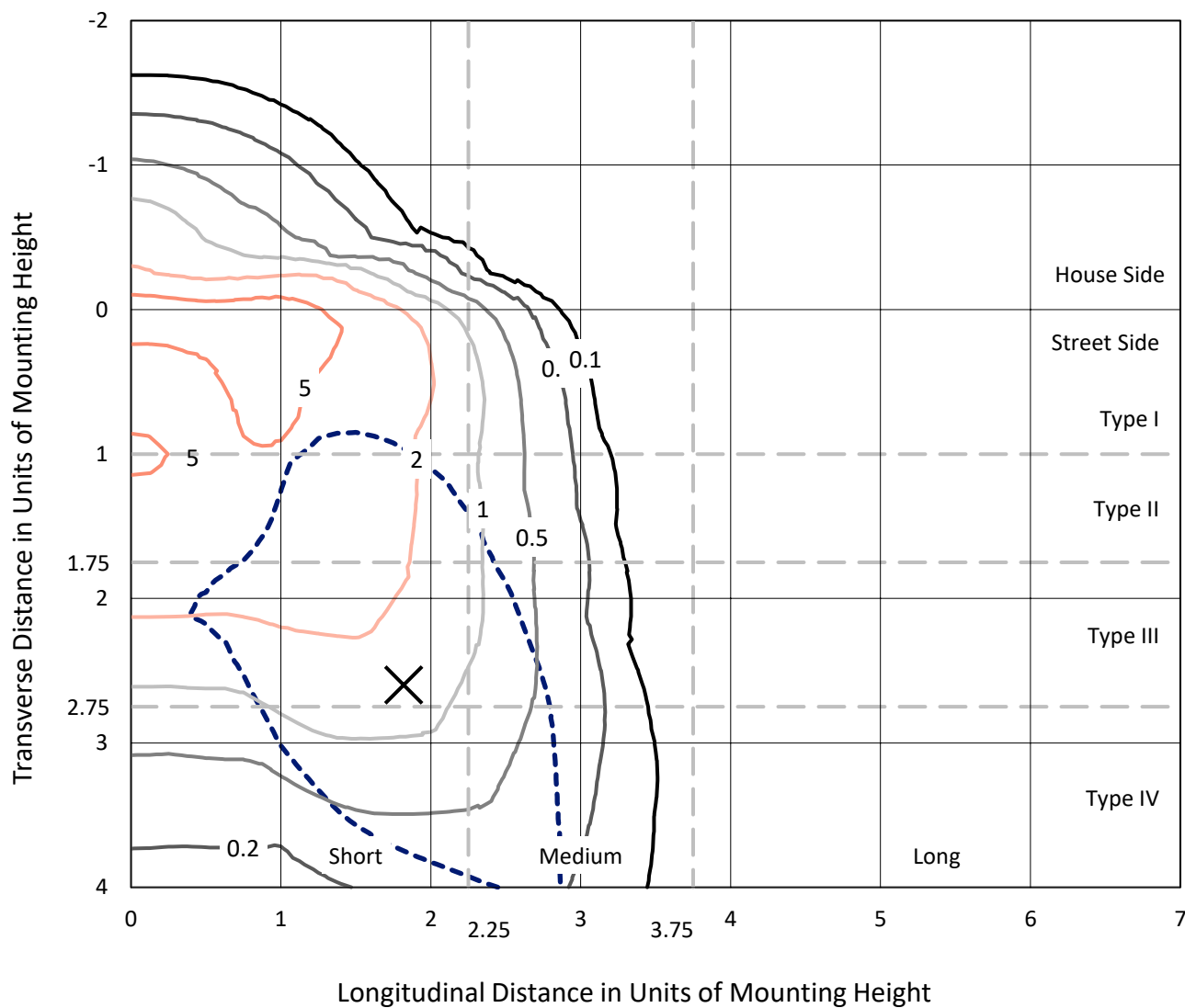
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

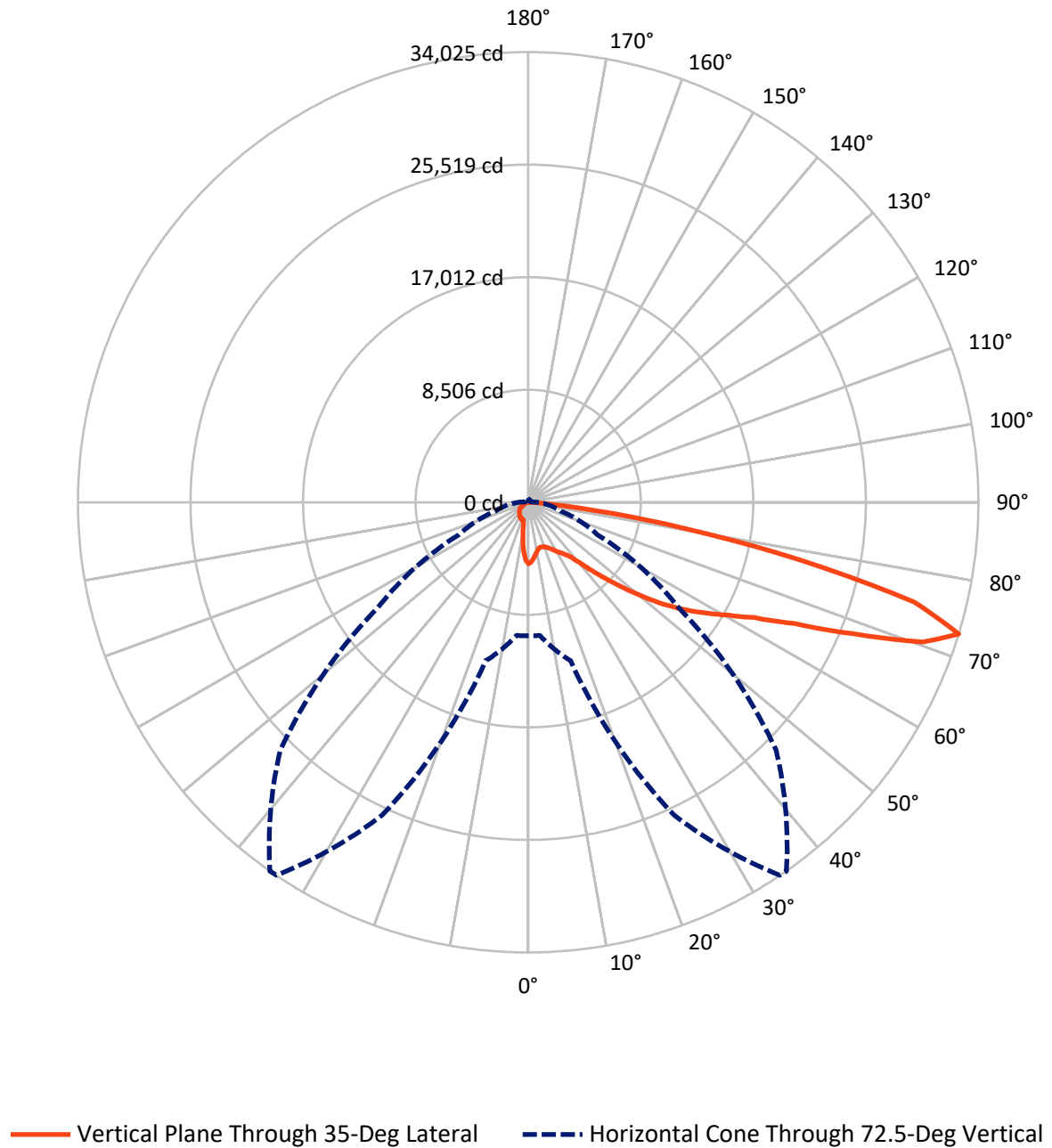
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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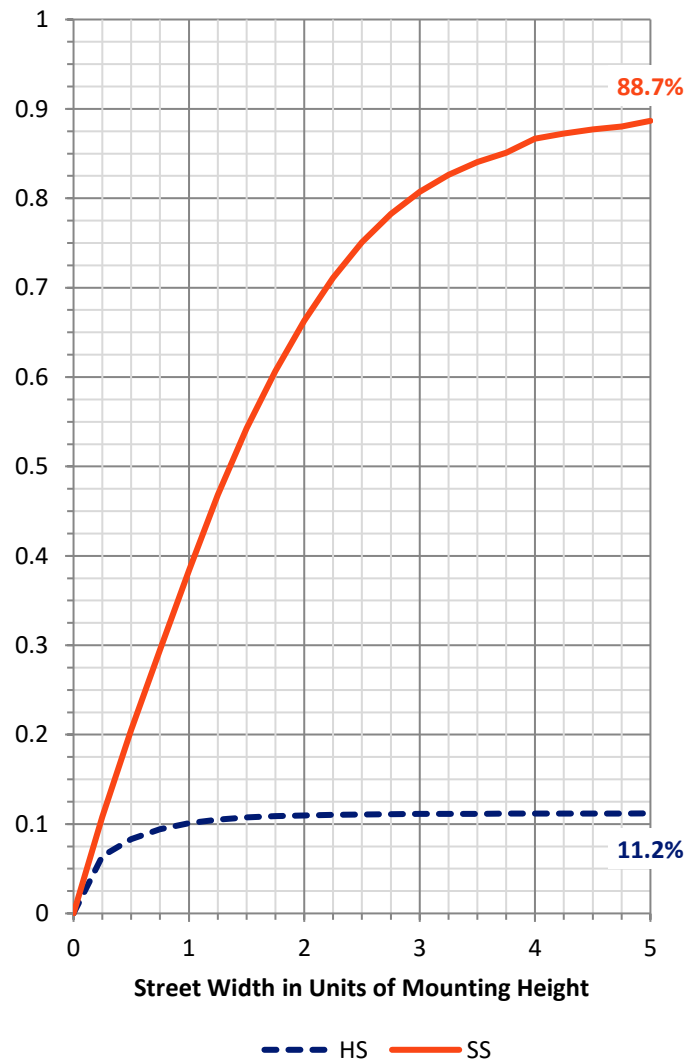
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3610.5	0.0	3610.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	28469.5	0.0	28469.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	32080.0	0.0	32080.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.1	1.2
10°-20°	893.8	2.8
20°-30°	1451.9	4.5
30°-40°	2422.5	7.6
40°-50°	4583.5	14.3
50°-60°	7283.2	22.7
60°-70°	9009.8	28.1
70°-80°	5600.6	17.5
80°-90°	452.6	1.4
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°	32080.0	100.0
0°-180°	32080.0	100.0

Coefficient of Utilization



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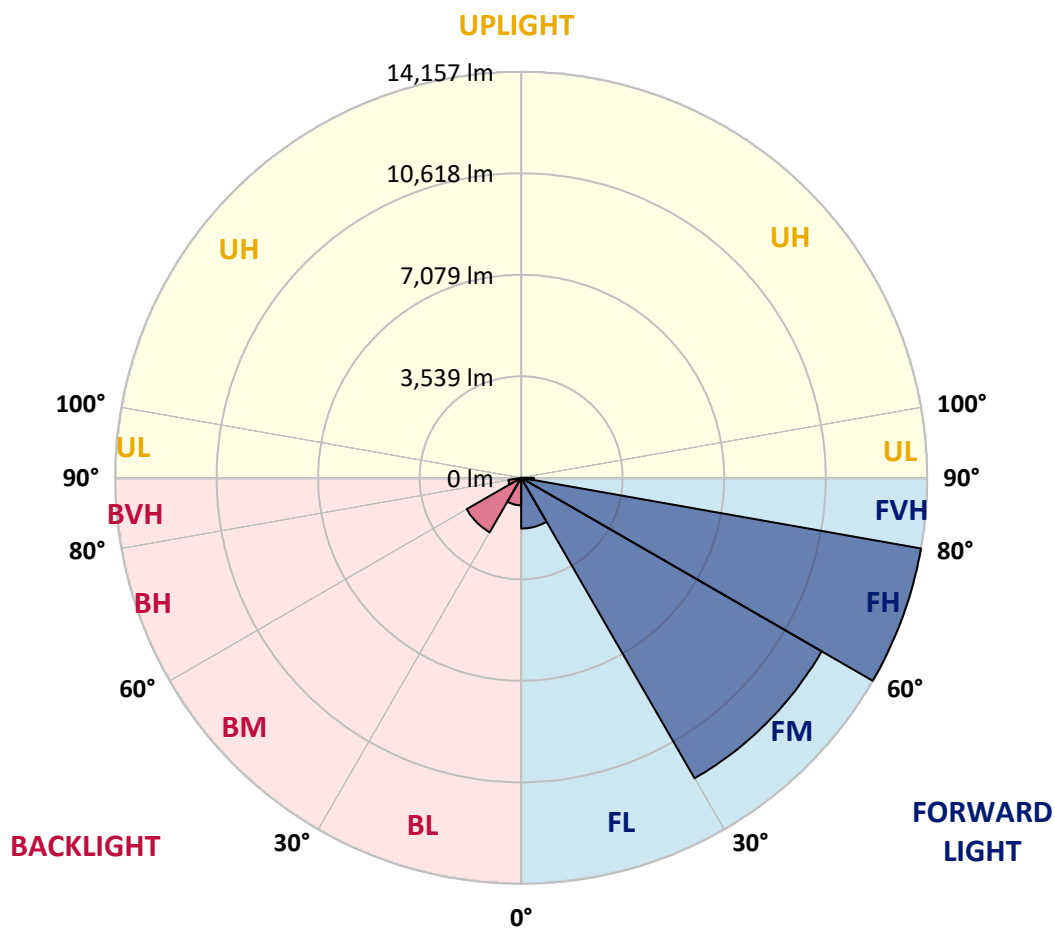
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1768.4	5.5			
FM	(30°-60°)	12097.4	37.7			
FH	(60°-80°)	14157.3	44.1			G5
FVH	(80°-90°)	446.5	1.4			G3/500
BL	(0°-30°)	959.4	3.0	B2/1000		
BM	(30°-60°)	2191.9	6.8	B2/2500		
BH	(60°-80°)	453.1	1.4	B1/500		G1/500
BVH	(80°-90°)	6.2	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4649.5	4649.5	4649.5	4649.5	4649.5	4649.5	4649.5	4649.5	4649.5	4649.5	4649.5
2.5°	4442.6	4480.2	4487.3	4499.0	4499.0	4513.1	4536.6	4569.5	4623.6	4651.8	4670.6
5°	4094.7	4122.9	4158.2	4186.4	4240.5	4247.5	4339.2	4428.5	4553.1	4647.1	4712.9
7.5°	3744.5	3777.4	3824.4	3892.6	3963.1	3984.3	4122.9	4273.4	4470.8	4647.1	4757.6
10°	3497.7	3500.0	3542.3	3610.5	3723.3	3749.2	3918.4	4132.3	4379.1	4618.9	4799.9
12.5°	3359.0	3375.4	3394.3	3446.0	3554.1	3570.5	3751.5	4003.1	4287.5	4602.5	4849.3
15°	3359.0	3370.7	3382.5	3408.4	3495.3	3509.4	3669.3	3920.8	4240.5	4609.5	4929.2
17.5°	3394.3	3413.1	3403.7	3434.2	3525.9	3535.3	3676.3	3897.3	4238.1	4654.2	5051.4
20°	3478.9	3493.0	3474.2	3493.0	3584.7	3603.5	3749.2	3941.9	4278.1	4731.7	5204.2
22.5°	3612.9	3619.9	3575.2	3589.4	3683.4	3706.9	3876.1	4068.9	4374.4	4856.3	5408.7
25°	3782.1	3796.2	3728.0	3744.5	3833.8	3862.0	4057.1	4259.3	4527.2	5027.9	5669.6
27.5°	3977.2	3984.3	3925.5	3923.1	4038.3	4078.3	4275.7	4494.3	4731.7	5244.2	5998.7
30°	4200.5	4221.7	4165.2	4155.8	4301.6	4334.5	4529.6	4783.5	5032.6	5568.5	6466.5
32.5°	4376.8	4393.3	4360.3	4383.9	4531.9	4557.8	4837.5	5192.5	5505.1	6029.3	7103.5
35°	4630.7	4640.1	4564.8	4607.2	4776.4	4842.2	5258.3	5766.0	6099.8	6607.5	7935.6
37.5°	5549.7	5549.7	5230.1	5020.9	5183.1	5241.8	5834.2	6487.6	6833.2	7383.2	8984.0
40°	6821.4	6800.3	6332.5	5904.7	5883.5	5998.7	6654.5	7397.3	7780.5	8314.0	10164.0
42.5°	8177.7	8144.8	7507.8	7084.7	7014.2	7054.1	7601.8	8518.5	8908.7	9449.4	11433.3
45°	9381.2	9371.8	8788.9	8220.0	8093.1	8220.0	8784.2	9830.2	10109.9	10678.7	12700.2
47.5°	10389.6	10389.6	9964.2	9592.8	9526.9	9602.2	10384.9	11285.2	11259.3	11988.0	13934.3
50°	11550.8	11541.4	11137.1	10977.3	11045.4	11151.2	12227.8	12817.8	12448.7	13273.8	15036.7
52.5°	12364.1	12420.5	12281.8	12256.0	12603.9	12787.2	14098.8	14317.4	13513.5	14493.7	15861.8
55°	13008.2	13074.0	13233.8	13414.8	14084.7	14324.5	15911.1	15739.6	14404.4	15551.5	16336.6
57.5°	13920.2	13826.2	14073.0	14430.3	15513.9	15803.0	17667.0	17081.7	15121.3	16409.5	16388.3
60°	15027.3	15041.4	15083.7	15535.1	16940.7	17312.1	19397.1	18351.1	15582.1	16936.0	15814.8
62.5°	16357.8	16378.9	16465.9	17159.3	18856.4	19206.7	21239.9	19390.0	15793.6	16787.9	14333.9
65°	16266.1	16355.4	17326.2	19697.9	21768.8	22114.4	23390.7	20118.7	15473.9	15434.0	11670.7
67.5°	14818.1	14963.9	16588.1	22730.2	26159.7	26545.2	25990.5	20262.1	14094.1	12002.1	7613.6
70°	12918.8	12970.6	14923.9	25456.9	31244.0	31634.2	28317.6	18684.8	10695.2	6694.5	3410.7
72.5°	10088.7	10100.5	12392.3	26089.2	34003.6	34024.8	26491.2	13870.8	5751.9	2571.5	1184.7
75°	7206.9	7136.4	8299.9	21157.7	29916.0	30155.7	19860.1	6506.4	2197.8	1215.3	590.0
77.5°	3864.4	3941.9	4696.5	12547.5	20666.4	21075.4	10836.2	1875.8	1118.9	827.4	390.2
80°	1194.1	1259.9	1925.1	5744.8	11705.9	11952.8	4017.2	834.5	780.4	590.0	256.2
82.5°	376.1	390.2	897.9	2414.1	4858.7	4971.5	1163.5	472.5	533.6	390.2	150.4
85°	108.1	110.5	399.6	900.3	1201.2	1224.7	326.7	183.3	305.6	242.1	77.6
87.5°	11.8	37.6	150.4	150.4	105.8	103.4	35.3	40.0	87.0	30.6	14.1
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°	4649.5	4649.5	4649.5	4649.5	4649.5	4649.5	4649.5	4649.5	4649.5	4649.5	4649.5
2.5°	4658.9	4661.2	4630.7	4578.9	4522.5	4475.5	4416.8	4369.7	4336.8	4327.4	4343.9
5°	4691.8	4675.3	4588.4	4430.9	4242.8	4080.6	3899.6	3756.2	3662.2	3622.3	3636.4
7.5°	4741.1	4694.1	4503.7	4193.5	3833.8	3514.1	3189.8	2938.2	2778.4	2698.5	2710.2
10°	4783.5	4689.4	4362.7	3850.3	3300.2	2816.0	2378.8	2075.6	1906.3	1826.4	1828.8
12.5°	4823.4	4687.1	4179.3	3443.6	2698.5	2106.1	1699.5	1549.0	1502.0	1485.6	1480.9
15°	4898.6	4694.1	3949.0	2978.2	2099.1	1591.3	1443.3	1440.9	1450.3	1445.6	1443.3
17.5°	5002.1	4701.2	3688.1	2484.6	1619.6	1403.3	1396.3	1417.4	1431.5	1424.5	1422.1
20°	5136.0	4729.4	3410.7	1995.7	1391.5	1356.3	1372.7	1391.5	1403.3	1391.5	1389.2
22.5°	5324.1	4778.8	3107.5	1603.1	1318.7	1328.1	1342.2	1363.3	1375.1	1358.6	1356.3
25°	5554.4	4856.3	2809.0	1393.9	1283.4	1295.2	1316.3	1339.8	1353.9	1337.5	1335.1
27.5°	5853.0	4980.9	2533.9	1346.9	1248.2	1255.2	1285.8	1321.0	1339.8	1318.7	1318.7
30°	6285.5	5185.4	2296.5	1368.0	1227.0	1210.6	1252.9	1302.2	1323.4	1304.6	1302.2
32.5°	6859.0	5474.5	2150.8	1401.0	1217.6	1158.8	1198.8	1262.3	1297.5	1285.8	1285.8
35°	7611.2	5914.1	2094.4	1438.6	1210.6	1104.8	1133.0	1201.2	1262.3	1274.0	1274.0
37.5°	8523.2	6525.2	2110.8	1455.0	1189.4	1060.1	1074.2	1133.0	1212.9	1250.5	1259.9
40°	9559.9	7237.5	2204.9	1438.6	1165.9	1022.5	1024.9	1069.5	1140.0	1196.5	1215.3
42.5°	10629.4	8069.6	2378.8	1377.4	1144.7	989.6	982.5	1013.1	1060.1	1100.1	1116.5
45°	11647.2	8925.2	2550.4	1292.8	1118.9	956.7	940.2	952.0	961.4	977.8	987.2
47.5°	12535.7	9526.9	2501.0	1215.3	1083.6	919.1	890.9	886.2	858.0	855.6	853.3
50°	13149.2	9658.6	2221.3	1137.7	1031.9	876.8	832.1	803.9	754.5	731.0	733.4
52.5°	13344.3	9139.1	1814.7	1060.1	947.3	820.4	756.9	712.2	651.1	630.0	627.6
55°	13085.7	8121.3	1450.3	966.1	829.8	745.1	674.6	615.9	566.5	540.6	540.6
57.5°	12453.4	6826.1	1147.1	855.6	705.2	660.5	590.0	531.2	488.9	463.1	458.4
60°	11405.1	5420.5	907.3	724.0	601.8	568.8	496.0	458.4	420.8	390.2	383.1
62.5°	9813.7	3869.1	712.2	573.5	503.0	465.4	423.1	394.9	350.2	307.9	300.9
65°	7658.2	2367.0	550.0	420.8	404.3	385.5	359.6	333.8	279.7	237.4	230.4
67.5°	4830.5	1121.2	392.5	317.3	319.7	310.3	298.5	277.4	237.4	199.8	195.1
70°	2127.3	543.0	258.6	242.1	237.4	237.4	246.8	239.8	202.2	166.9	159.8
72.5°	724.0	291.5	192.7	183.3	171.6	169.2	206.9	199.8	162.2	129.3	122.2
75°	378.4	195.1	141.0	131.6	103.4	124.6	164.5	155.1	115.2	84.6	77.6
77.5°	246.8	138.7	96.4	84.6	58.8	82.3	122.2	108.1	68.2	42.3	37.6
80°	155.1	91.7	56.4	40.0	28.2	44.7	65.8	47.0	25.9	9.4	7.1
82.5°	82.3	47.0	21.2	14.1	11.8	14.1	16.5	11.8	4.7	0.0	0.0
85°	32.9	16.5	7.1	4.7	2.4	0.0	4.7	2.4	0.0	0.0	0.0
87.5°	11.8	2.4	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)