

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: P953791

Luminaire Tested: **GALN-SB7B-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-727-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

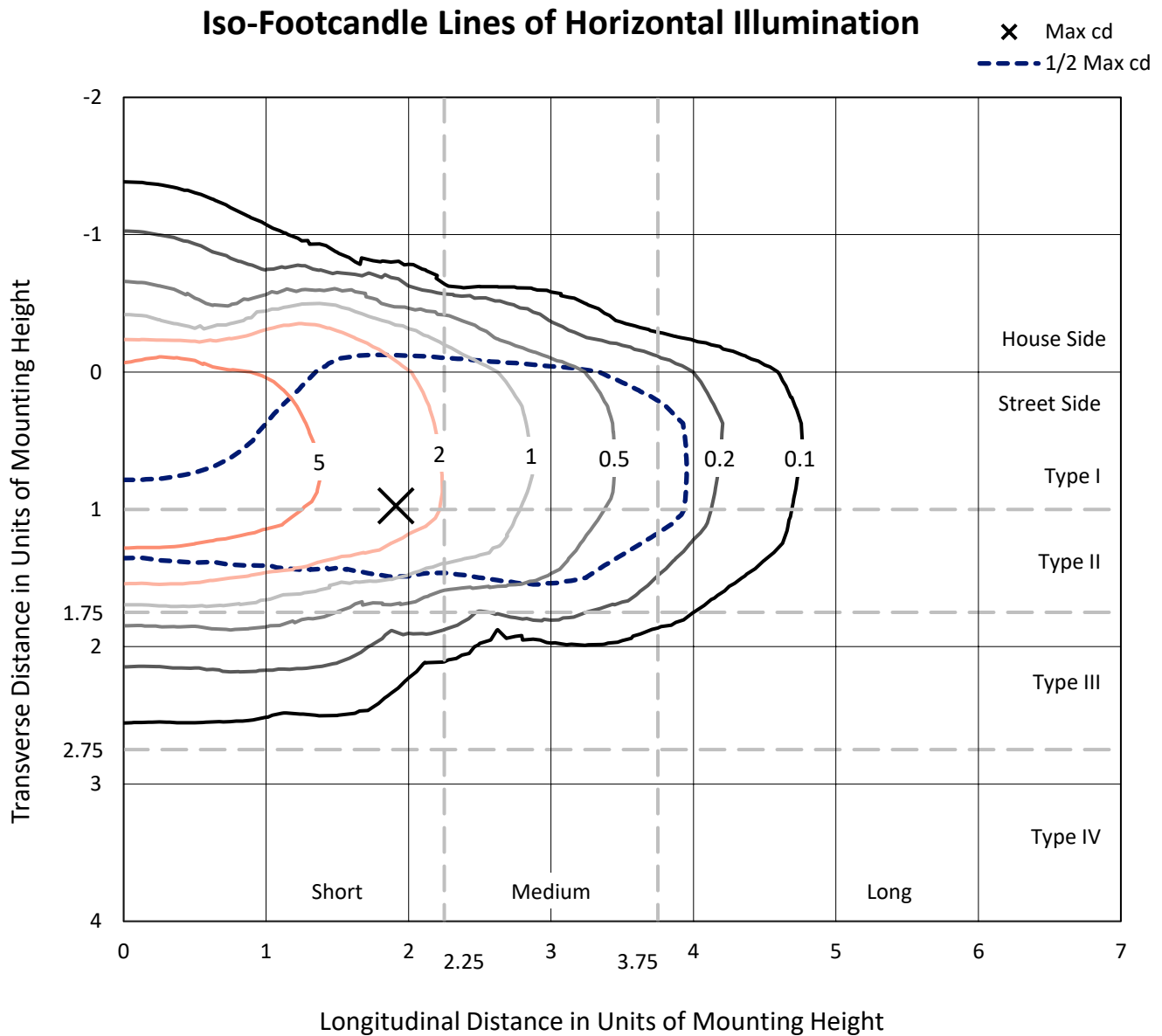
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28387 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 256.7
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



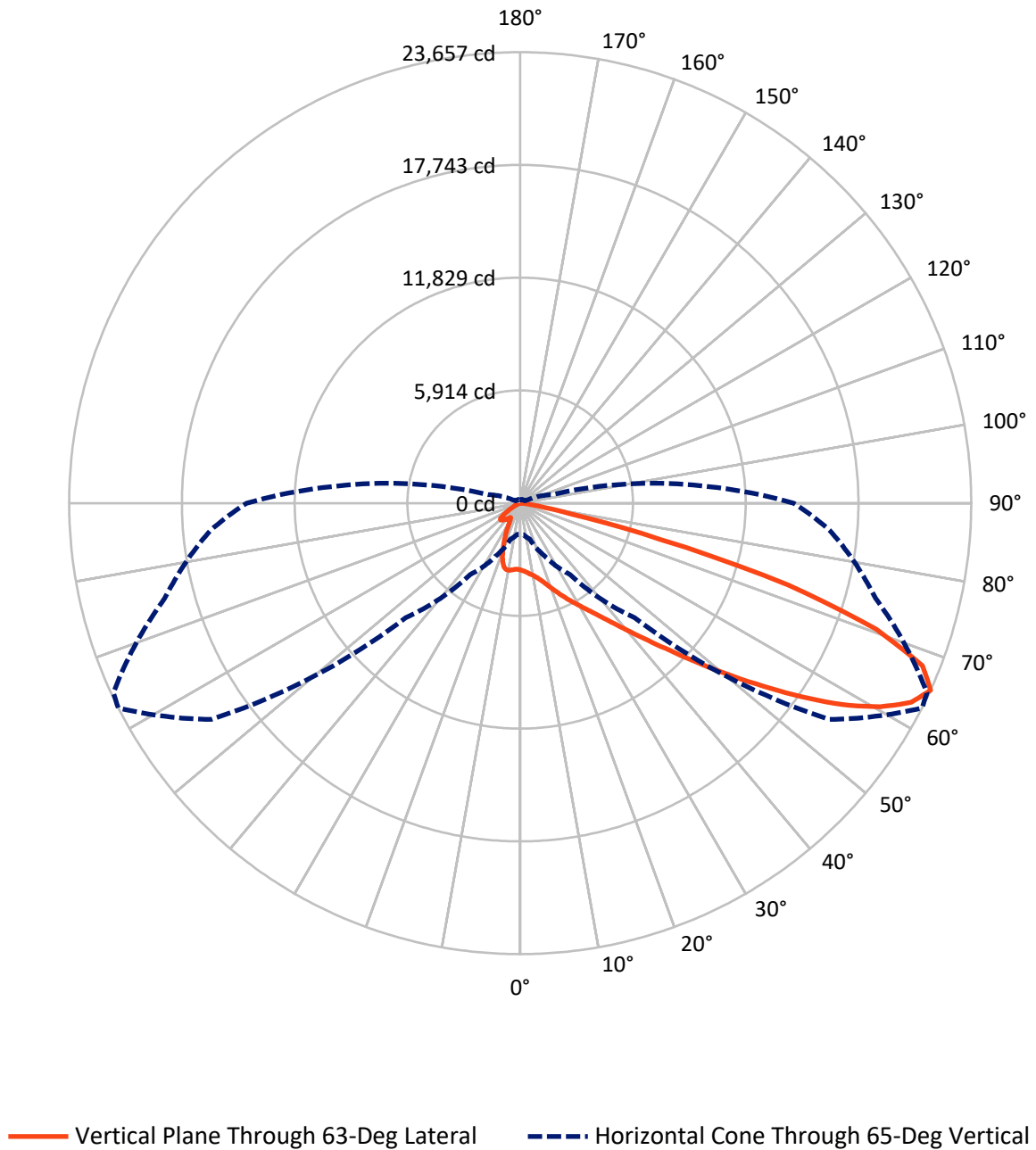
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Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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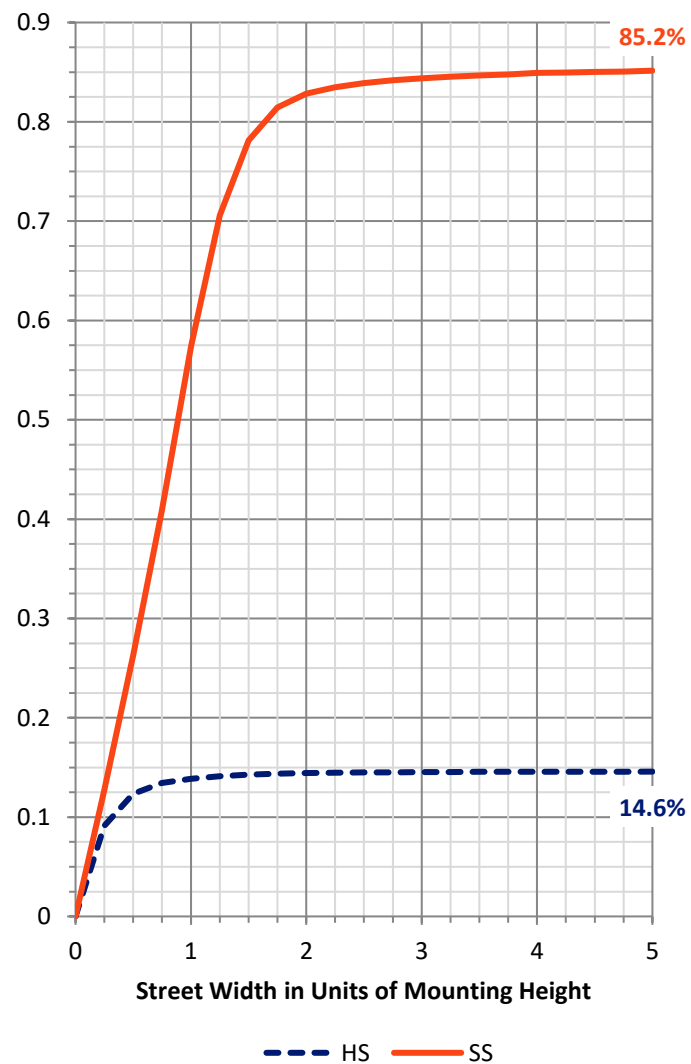
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4172.7	0.0	4172.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	24214.3	0.0	24214.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	28387.0	0.0	28387.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.1	1.2
10°-20°	915.9	3.2
20°-30°	1594.8	5.6
30°-40°	2874.5	10.1
40°-50°	5701.0	20.1
50°-60°	7765.7	27.4
60°-70°	6198.5	21.8
70°-80°	2805.0	9.9
80°-90°	201.6	0.7
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°	28387.0	100.0
0°-180°	28387.0	100.0

Coefficient of Utilization



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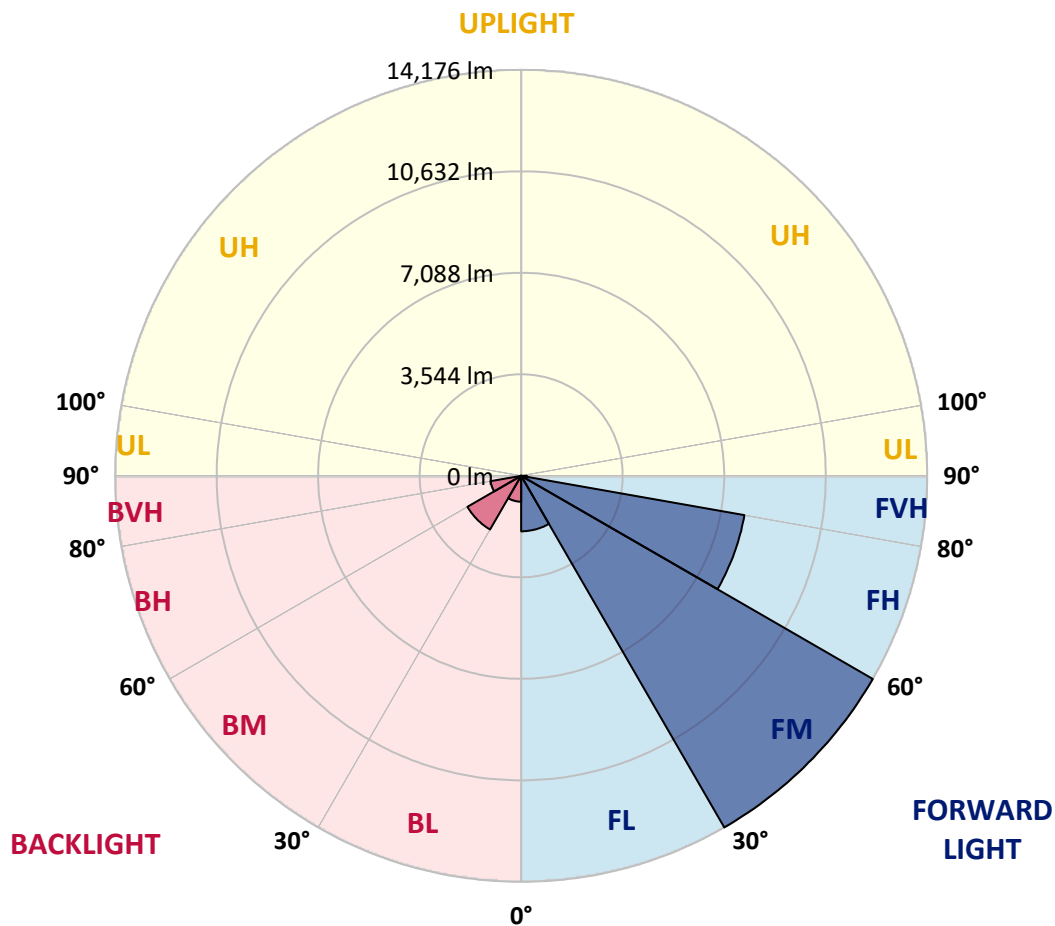
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1937.8	6.8			
FM	(30°-60°)	14175.8	49.9			
FH	(60°-80°)	7914.2	27.9			G4/12000
FVH	(80°-90°)	186.7	0.7			G2/225
BL	(0°-30°)	903.0	3.2	B2/1000		
BM	(30°-60°)	2165.4	7.6	B2/2500		
BH	(60°-80°)	1089.3	3.8	B3/2500		G3/2500
BVH	(80°-90°)	15.0	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3503.5	3503.5	3503.5	3503.5	3503.5	3503.5	3503.5	3503.5	3503.5	3503.5	3503.5
2.5°	3585.5	3575.7	3589.4	3583.6	3579.7	3571.8	3567.9	3564.0	3556.2	3550.4	3526.9
5°	3595.3	3589.4	3603.1	3614.8	3626.5	3638.2	3644.1	3651.9	3644.1	3628.5	3605.0
7.5°	3513.3	3509.4	3538.6	3573.8	3626.5	3671.4	3720.3	3747.6	3749.6	3743.7	3718.3
10°	3507.4	3497.6	3526.9	3569.9	3638.2	3718.3	3804.2	3862.8	3870.6	3896.0	3868.7
12.5°	3599.2	3589.4	3630.4	3677.3	3747.6	3831.6	3937.0	4019.1	4030.8	4065.9	4046.4
15°	3753.5	3739.8	3786.7	3847.2	3937.0	4032.7	4144.0	4218.3	4228.0	4271.0	4235.8
17.5°	3933.1	3919.5	3974.1	4038.6	4136.2	4267.1	4396.0	4478.0	4489.7	4517.0	4452.6
20°	4163.6	4146.0	4189.0	4247.5	4351.0	4507.3	4661.6	4778.7	4776.8	4776.8	4671.3
22.5°	4431.1	4403.8	4440.9	4487.8	4585.4	4774.8	4979.9	5118.5	5118.5	5063.9	4890.0
25°	4718.2	4690.9	4731.9	4774.8	4860.8	5075.6	5315.8	5487.6	5495.4	5401.7	5124.4
27.5°	5077.5	5042.4	5073.6	5124.4	5175.2	5393.9	5679.0	5878.2	5882.1	5737.6	5347.0
30°	5768.8	5669.3	5571.6	5516.9	5540.4	5757.1	6061.8	6282.5	6302.0	6102.8	5589.2
32.5°	7034.3	7014.8	6671.1	6221.9	5987.6	6147.7	6489.5	6755.1	6766.8	6510.9	5903.6
35°	9000.9	8977.5	8424.8	7569.4	6805.8	6671.1	7008.9	7323.4	7315.5	7026.5	6311.8
37.5°	11348.3	11326.8	10598.4	9454.0	8217.8	7462.0	7678.8	8008.8	8057.6	7678.8	6839.0
40°	13353.9	13273.8	12812.9	11709.6	10092.6	8774.4	8631.8	8850.5	8901.3	8452.1	7508.9
42.5°	14873.2	14804.9	14570.5	13881.2	12361.8	10715.5	9754.7	9838.7	9895.3	9356.3	8278.3
45°	15660.3	15644.6	15738.4	15673.9	14674.0	13098.1	11360.0	11010.4	11031.9	10358.2	9151.3
47.5°	15771.6	15763.8	16191.4	16796.8	16662.1	15785.2	13420.3	12471.2	12395.0	11488.9	10100.4
50°	15115.4	15099.8	15920.0	17054.6	17990.1	18042.8	15759.9	14117.5	13949.5	12658.7	11090.5
52.5°	13019.9	13016.0	14363.5	16252.0	18456.8	20019.1	18072.1	15925.9	15644.6	13896.8	12137.2
55°	10018.3	10090.6	11635.3	13867.5	17605.3	20970.2	20148.0	17933.4	17501.8	15142.7	13102.0
57.5°	7096.8	7202.3	8729.4	10717.5	14965.0	20407.7	21552.1	19944.9	19480.1	16384.8	14080.4
60°	3812.0	3905.8	5434.9	7807.7	11133.4	18310.3	22292.3	21690.8	21251.4	17564.3	14963.1
62.5°	2271.2	2302.5	2935.2	5040.4	7530.4	13988.6	21977.9	23020.7	22659.4	18554.4	15730.6
65°	1630.7	1636.5	1954.8	3077.8	4571.7	8499.0	19773.1	23657.4	23546.0	19300.5	16298.9
67.5°	1372.9	1369.0	1501.8	2044.7	3114.9	4257.3	15154.5	22757.1	23229.7	19773.1	16621.1
70°	1177.6	1183.5	1339.7	1497.9	2341.5	2409.9	7534.3	19814.1	20821.8	19898.0	16601.6
72.5°	876.8	896.4	1040.9	1365.1	1767.4	1658.0	2601.3	14691.6	16513.7	18747.8	15740.3
75°	619.1	628.8	732.3	1148.3	1318.2	1206.9	1328.0	7594.8	9930.5	14373.3	12883.2
77.5°	476.5	494.1	554.6	802.6	1298.7	847.6	812.4	2628.6	4038.6	8682.6	8832.9
80°	257.8	289.0	400.3	580.0	912.0	599.5	402.3	1046.8	1369.0	4060.1	3405.8
82.5°	132.8	148.4	279.3	417.9	519.5	523.4	199.2	435.5	564.4	1253.8	466.7
85°	52.7	64.4	187.5	230.4	267.5	257.8	89.8	175.8	203.1	347.6	142.6
87.5°	11.7	19.5	68.4	52.7	50.8	54.7	21.5	41.0	39.1	41.0	25.4
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°	3503.5	3503.5	3503.5	3503.5	3503.5	3503.5	3503.5	3503.5	3503.5	3503.5	3503.5
2.5°	3525.0	3517.2	3495.7	3472.2	3444.9	3429.3	3419.5	3417.6	3403.9	3394.1	3403.9
5°	3583.6	3575.7	3534.7	3485.9	3433.2	3392.2	3353.1	3318.0	3267.2	3257.4	3253.5
7.5°	3700.7	3679.3	3612.9	3546.5	3446.9	3327.7	3183.2	3017.2	2868.8	2823.9	2802.4
10°	3845.2	3816.0	3732.0	3614.8	3394.1	3069.9	2720.4	2396.2	2138.4	2066.2	2038.8
12.5°	4009.3	3983.9	3872.6	3655.8	3173.5	2585.6	2050.5	1648.2	1398.3	1335.8	1318.2
15°	4204.6	4167.5	4013.2	3593.3	2779.0	1964.6	1408.0	1169.8	1080.0	1068.2	1056.5
17.5°	4411.6	4351.0	4138.2	3368.7	2247.8	1396.3	1087.8	1019.4	980.4	968.6	962.8
20°	4601.0	4522.9	4212.4	3028.9	1679.5	1087.8	974.5	929.6	894.4	880.8	872.9
22.5°	4790.4	4679.1	4212.4	2566.1	1259.6	964.7	894.4	853.4	812.4	794.8	785.1
25°	4987.7	4839.3	4138.2	2050.5	1013.6	884.7	818.3	773.3	738.2	716.7	708.9
27.5°	5179.1	4974.0	3968.3	1562.3	902.2	814.4	748.0	705.0	671.8	656.2	656.2
30°	5360.7	5106.8	3730.0	1185.4	830.0	746.0	683.5	646.4	613.2	597.6	599.5
32.5°	5606.8	5274.8	3476.2	972.5	767.5	681.6	624.9	589.8	560.5	548.8	548.8
35°	5948.5	5522.8	3257.4	955.0	714.8	628.8	572.2	539.0	509.7	499.9	499.9
37.5°	6432.8	5923.1	3142.2	1072.1	671.8	582.0	529.2	494.1	466.7	458.9	457.0
40°	7030.4	6466.0	3204.7	1189.3	642.5	541.0	490.2	455.0	431.6	421.8	419.9
42.5°	7739.3	7135.9	3550.4	1279.1	623.0	505.8	453.1	414.0	398.4	394.5	394.5
45°	8553.7	7872.1	4079.6	1374.8	591.7	472.6	416.0	386.7	375.0	373.0	371.0
47.5°	9479.3	8680.6	4692.8	1494.0	560.5	441.4	386.7	367.1	357.4	353.5	353.5
50°	10397.2	9495.0	5323.6	1560.4	535.1	412.1	363.2	347.6	339.8	337.9	337.9
52.5°	11358.0	10332.8	5833.3	1497.9	513.6	388.6	343.7	332.0	324.2	322.2	322.2
55°	12273.9	11010.4	5921.2	1271.3	470.6	365.2	322.2	316.4	306.6	306.6	304.7
57.5°	13062.9	11350.2	5300.2	933.5	427.7	330.0	300.7	294.9	287.1	285.1	283.2
60°	13787.4	11252.6	4091.3	628.8	380.8	294.9	273.4	269.5	261.7	251.9	250.0
62.5°	14195.6	10822.9	2798.5	410.1	333.9	257.8	242.2	240.2	222.6	203.1	199.2
65°	14349.9	9940.2	1745.9	298.8	279.3	220.7	209.0	205.1	179.7	158.2	156.2
67.5°	14215.1	8487.3	880.8	236.3	220.7	183.6	171.9	171.9	154.3	134.7	132.8
70°	13676.1	6362.5	371.0	189.4	169.9	140.6	140.6	148.4	130.8	109.4	107.4
72.5°	12506.3	4280.7	197.2	144.5	126.9	99.6	115.2	121.1	103.5	82.0	82.0
75°	9942.2	2611.0	136.7	107.4	80.1	70.3	87.9	91.8	70.3	54.7	52.7
77.5°	6800.0	1499.8	91.8	68.4	50.8	41.0	60.5	56.6	37.1	25.4	27.3
80°	2986.0	624.9	52.7	31.2	19.5	15.6	21.5	15.6	11.7	7.8	7.8
82.5°	349.6	146.5	19.5	11.7	7.8	3.9	2.0	0.0	0.0	0.0	0.0
85°	72.3	17.6	9.8	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.7	3.9	2.0	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)