

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: P944338

Luminaire Tested: **GALN-SB9B-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944338
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-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 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: 36020 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - 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



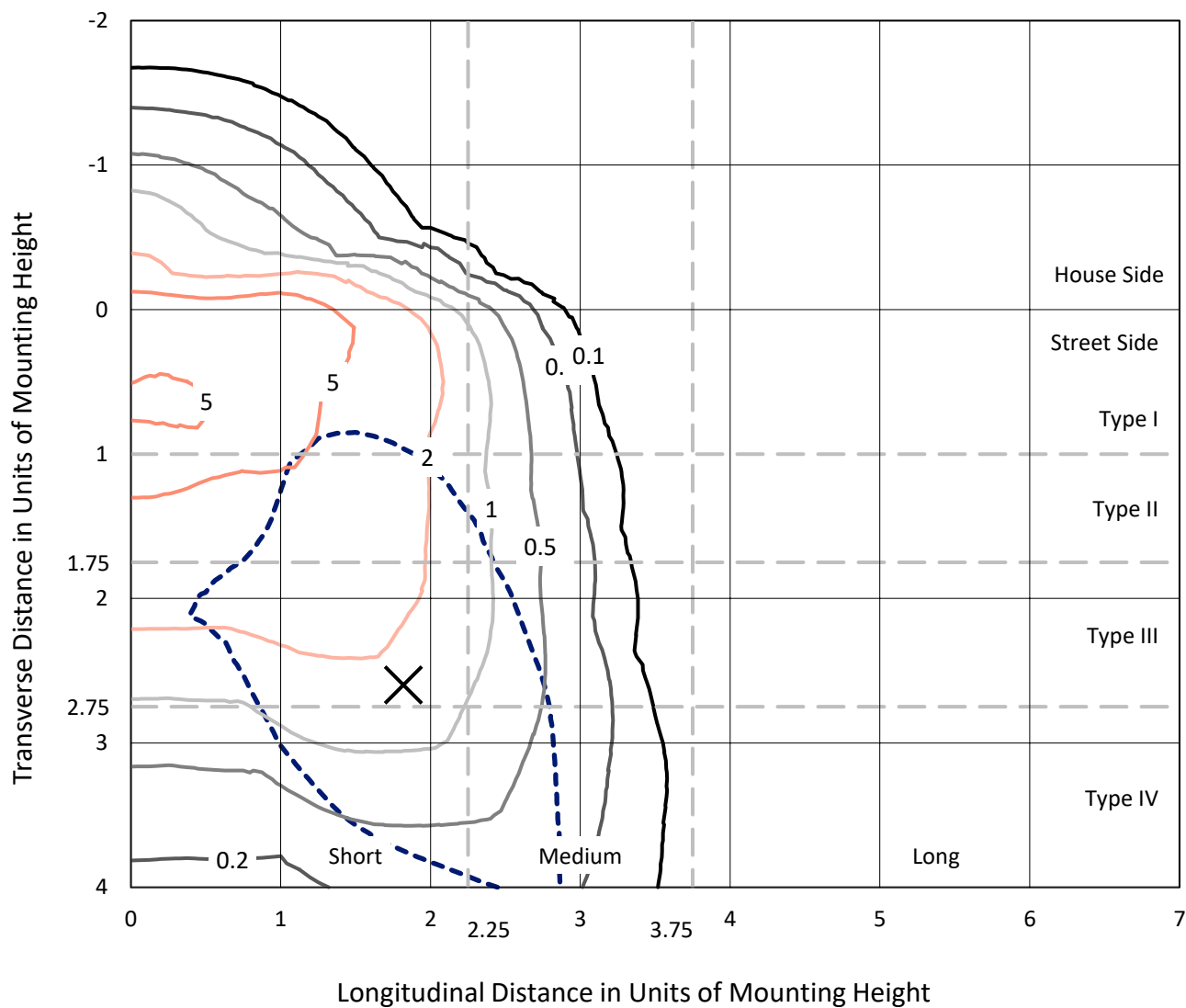
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

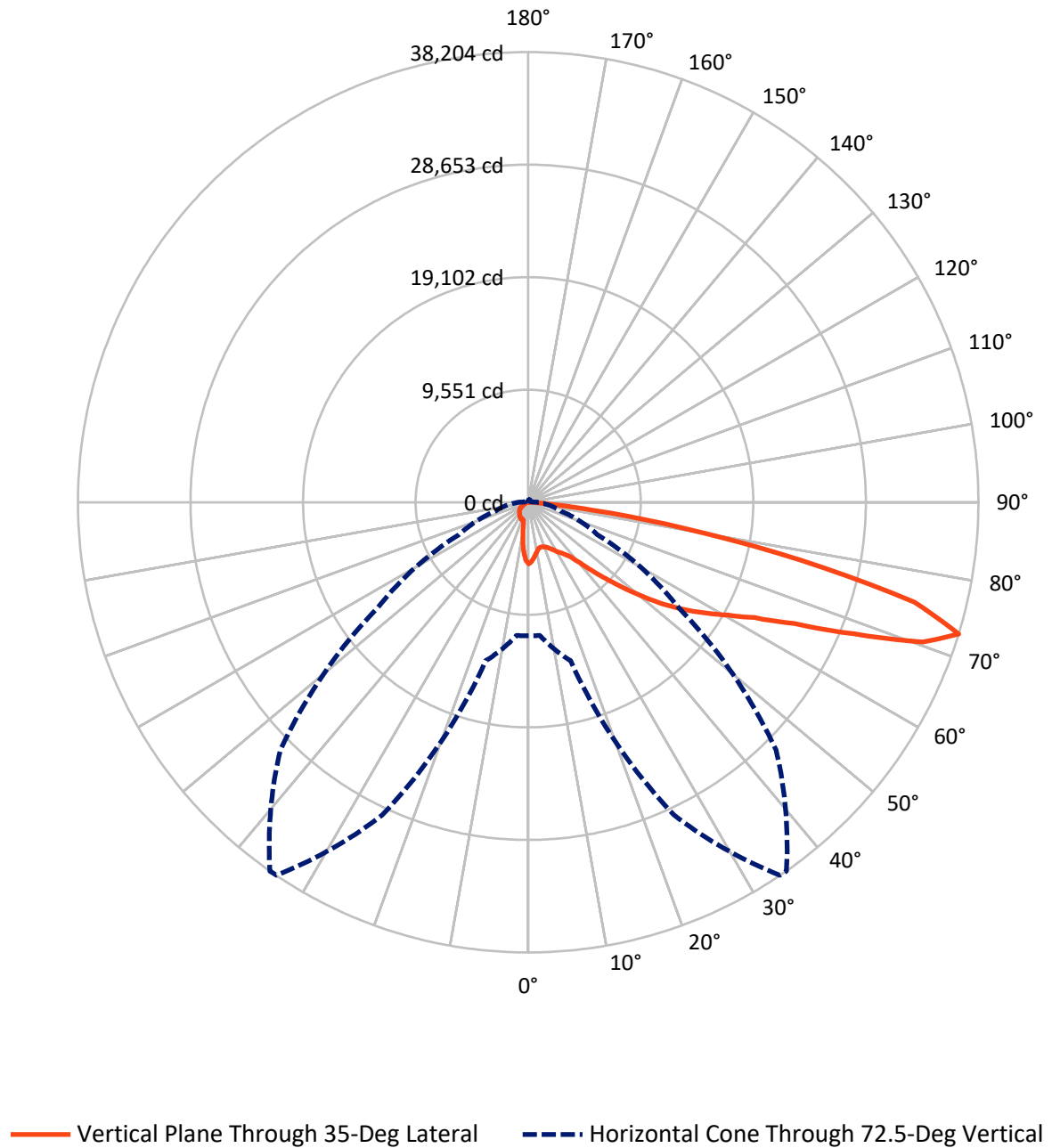


Based on 25 foot mounting height. Maximum calculated value = 8.4 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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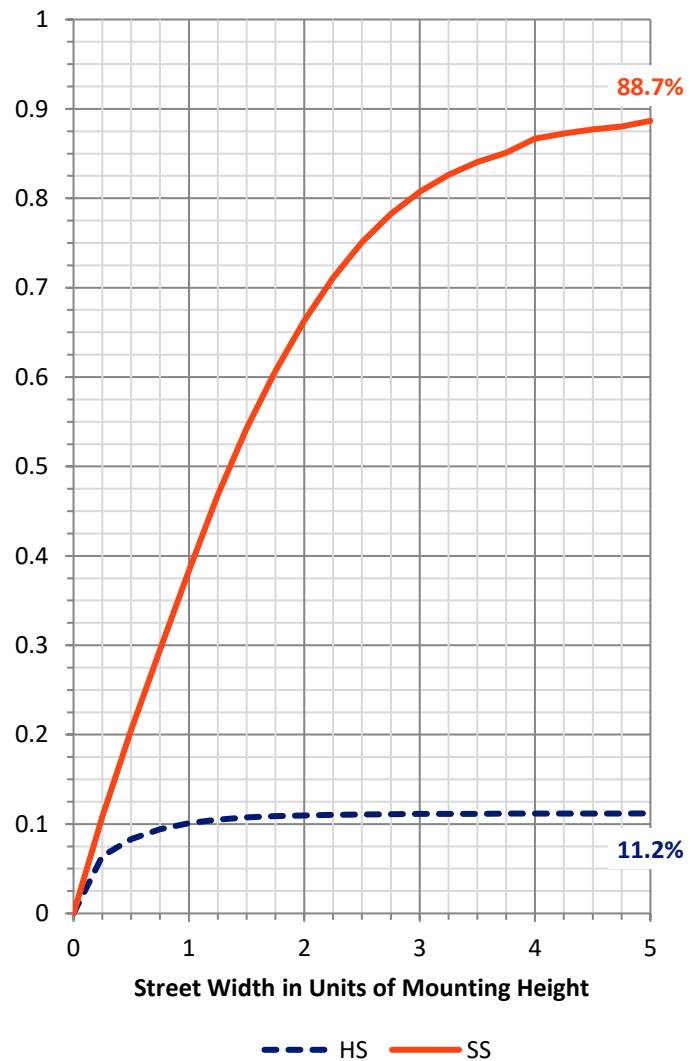
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4053.9	0.0	4053.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	31966.1	0.0	31966.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	36020.0	0.0	36020.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.0	1.2
10°-20°	1003.6	2.8
20°-30°	1630.3	4.5
30°-40°	2720.1	7.6
40°-50°	5146.5	14.3
50°-60°	8177.7	22.7
60°-70°	10116.4	28.1
70°-80°	6288.4	17.5
80°-90°	508.2	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°	36020.0	100.0
0°-180°	36020.0	100.0

Coefficient of Utilization



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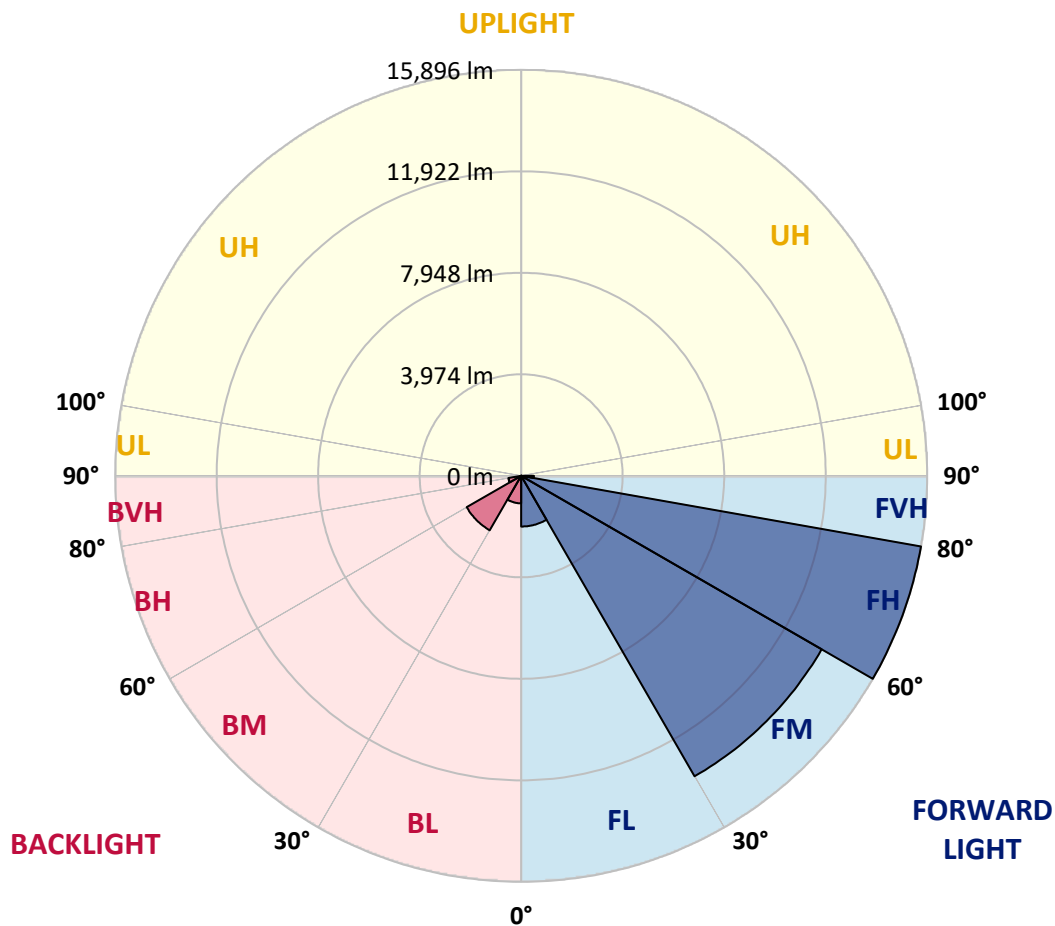
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1985.6	5.5			
FM	(30°-60°)	13583.1	37.7			
FH	(60°-80°)	15896.1	44.1			G5
FVH	(80°-90°)	501.3	1.4			G4/750
BL	(0°-30°)	1077.2	3.0	B3/2500		
BM	(30°-60°)	2461.1	6.8	B2/2500		
BH	(60°-80°)	508.7	1.4	B2/1000		G2/1000
BVH	(80°-90°)	6.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5
2.5°	4988.2	5030.5	5038.4	5051.6	5051.6	5067.4	5093.8	5130.8	5191.5	5223.1	5244.3
5°	4597.6	4629.3	4668.9	4700.6	4761.3	4769.2	4872.1	4972.4	5112.3	5217.9	5291.8
7.5°	4204.4	4241.3	4294.1	4370.7	4449.8	4473.6	4629.3	4798.2	5019.9	5217.9	5341.9
10°	3927.3	3929.9	3977.4	4053.9	4180.6	4209.7	4399.7	4639.9	4917.0	5186.2	5389.4
12.5°	3771.5	3790.0	3811.1	3869.2	3990.6	4009.1	4212.3	4494.7	4814.1	5167.7	5444.8
15°	3771.5	3784.7	3797.9	3827.0	3924.6	3940.5	4119.9	4402.3	4761.3	5175.6	5534.6
17.5°	3811.1	3832.2	3821.7	3856.0	3958.9	3969.5	4127.8	4375.9	4758.6	5225.8	5671.8
20°	3906.1	3922.0	3900.9	3922.0	4024.9	4046.0	4209.7	4426.1	4803.5	5312.9	5843.4
22.5°	4056.6	4064.5	4014.4	4030.2	4135.8	4162.2	4352.2	4568.6	4911.7	5452.8	6073.0
25°	4246.6	4262.4	4185.9	4204.4	4304.7	4336.3	4555.4	4782.4	5083.3	5645.4	6366.0
27.5°	4465.7	4473.6	4407.6	4405.0	4534.3	4579.2	4800.9	5046.3	5312.9	5888.2	6735.5
30°	4716.4	4740.2	4676.8	4666.3	4829.9	4866.8	5085.9	5370.9	5650.7	6252.5	7260.7
32.5°	4914.3	4932.8	4895.9	4922.3	5088.5	5117.6	5431.6	5830.2	6181.2	6769.8	7975.9
35°	5199.4	5209.9	5125.5	5173.0	5363.0	5436.9	5904.1	6474.2	6848.9	7419.0	8910.2
37.5°	6231.4	6231.4	5872.4	5637.5	5819.6	5885.6	6550.7	7284.4	7672.4	8290.0	10087.3
40°	7659.2	7635.5	7110.2	6629.9	6606.1	6735.5	7471.8	8305.8	8736.0	9335.2	11412.3
42.5°	9182.1	9145.1	8429.9	7954.8	7875.6	7920.5	8535.4	9564.8	10002.9	10609.9	12837.5
45°	10533.4	10522.8	9868.3	9229.6	9087.1	9229.6	9863.0	11037.5	11351.6	11990.3	14260.1
47.5°	11665.6	11665.6	11187.9	10770.9	10697.0	10781.5	11660.4	12671.2	12642.2	13460.4	15645.7
50°	12969.4	12958.9	12504.9	12325.5	12402.0	12520.8	13729.6	14392.0	13977.7	14904.0	16883.5
52.5°	13882.6	13946.0	13790.3	13761.2	14151.8	14357.7	15830.4	16075.9	15173.2	16273.8	17809.9
55°	14605.8	14679.7	14859.2	15062.4	15814.6	16083.8	17865.3	17672.7	16173.5	17461.5	18343.0
57.5°	15629.8	15524.3	15801.4	16202.6	17419.3	17743.9	19836.9	19179.7	16978.5	18424.8	18401.1
60°	16872.9	16888.8	16936.3	17443.0	19021.3	19438.3	21779.4	20604.9	17495.8	19016.0	17757.1
62.5°	18366.8	18390.5	18488.2	19266.8	21172.3	21565.6	23848.6	21771.5	17733.4	18849.8	16094.4
65°	18263.9	18364.1	19454.2	22117.2	24442.4	24830.4	26263.5	22589.6	17374.4	17329.5	13104.0
67.5°	16638.1	16801.7	18625.4	25521.9	29372.6	29805.4	29182.6	22750.6	15825.2	13476.2	8548.6
70°	14505.5	14563.6	16756.8	28583.5	35081.4	35519.5	31795.5	20979.7	12008.7	7516.7	3829.6
72.5°	11327.8	11341.0	13914.3	29293.4	38179.9	38203.6	29744.7	15574.4	6458.3	2887.4	1330.2
75°	8092.0	8012.9	9319.3	23756.2	33590.2	33859.4	22299.3	7305.5	2467.7	1364.5	662.5
77.5°	4339.0	4426.1	5273.3	14088.5	23204.6	23663.8	12167.1	2106.1	1256.3	929.0	438.1
80°	1340.8	1414.7	2161.6	6450.4	13143.6	13420.8	4510.5	936.9	876.2	662.5	287.7
82.5°	422.3	438.1	1008.2	2710.5	5455.4	5582.1	1306.4	530.5	599.1	438.1	168.9
85°	121.4	124.0	448.7	1010.8	1348.7	1375.1	366.9	205.9	343.1	271.8	87.1
87.5°	13.2	42.2	168.9	168.9	118.8	116.1	39.6	44.9	97.7	34.3	15.8
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°	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5
2.5°	5231.1	5233.7	5199.4	5141.3	5078.0	5025.2	4959.2	4906.4	4869.5	4858.9	4877.4
5°	5268.0	5249.5	5151.9	4975.1	4763.9	4581.8	4378.6	4217.6	4112.0	4067.1	4083.0
7.5°	5323.4	5270.7	5056.9	4708.5	4304.7	3945.7	3581.5	3299.1	3119.6	3029.9	3043.1
10°	5370.9	5265.4	4898.5	4323.1	3705.6	3161.9	2671.0	2330.5	2140.5	2050.7	2053.4
12.5°	5415.8	5262.7	4692.6	3866.6	3029.9	2364.8	1908.2	1739.3	1686.5	1668.0	1662.7
15°	5500.3	5270.7	4434.0	3344.0	2356.9	1786.8	1620.5	1617.9	1628.4	1623.2	1620.5
17.5°	5616.4	5278.6	4141.0	2789.7	1818.5	1575.7	1567.7	1591.5	1607.3	1599.4	1596.8
20°	5766.8	5310.2	3829.6	2240.8	1562.5	1522.9	1541.3	1562.5	1575.7	1562.5	1559.8
22.5°	5978.0	5365.7	3489.1	1800.0	1480.6	1491.2	1507.0	1530.8	1544.0	1525.5	1522.9
25°	6236.6	5452.8	3153.9	1565.1	1441.0	1454.2	1478.0	1504.4	1520.2	1501.8	1499.1
27.5°	6571.8	5592.6	2845.1	1512.3	1401.5	1409.4	1443.7	1483.3	1504.4	1480.6	1480.6
30°	7057.4	5822.3	2578.6	1536.1	1377.7	1359.2	1406.7	1462.2	1485.9	1464.8	1462.2
32.5°	7701.4	6146.9	2414.9	1573.0	1367.1	1301.2	1346.0	1417.3	1456.9	1443.7	1443.7
35°	8546.0	6640.4	2351.6	1615.2	1359.2	1240.5	1272.1	1348.7	1417.3	1430.5	1430.5
37.5°	9570.0	7326.7	2370.1	1633.7	1335.5	1190.3	1206.2	1272.1	1361.9	1404.1	1414.7
40°	10734.0	8126.4	2475.6	1615.2	1309.1	1148.1	1150.7	1200.9	1280.1	1343.4	1364.5
42.5°	11934.8	9060.7	2671.0	1546.6	1285.3	1111.1	1103.2	1137.5	1190.3	1235.2	1253.7
45°	13077.7	10021.4	2863.6	1451.6	1256.3	1074.2	1055.7	1068.9	1079.5	1097.9	1108.5
47.5°	14075.3	10697.0	2808.2	1364.5	1216.7	1032.0	1000.3	995.0	963.3	960.7	958.1
50°	14764.2	10844.8	2494.1	1277.4	1158.6	984.5	934.3	902.6	847.2	820.8	823.5
52.5°	14983.2	10261.5	2037.5	1190.3	1063.6	921.1	849.8	799.7	731.1	707.3	704.7
55°	14692.9	9118.7	1628.4	1084.7	931.7	836.7	757.5	691.5	636.1	607.0	607.0
57.5°	13982.9	7664.5	1288.0	960.7	791.8	741.6	662.5	596.5	549.0	519.9	514.7
60°	12805.8	6086.2	1018.8	812.9	675.7	638.7	556.9	514.7	472.4	438.1	430.2
62.5°	11019.0	4344.3	799.7	644.0	564.8	522.6	475.1	443.4	393.3	345.7	337.8
65°	8598.8	2657.8	617.6	472.4	454.0	432.8	403.8	374.8	314.1	266.6	258.6
67.5°	5423.7	1258.9	440.8	356.3	358.9	348.4	335.2	311.4	266.6	224.3	219.1
70°	2388.6	609.7	290.3	271.8	266.6	266.6	277.1	269.2	227.0	187.4	179.5
72.5°	812.9	327.3	216.4	205.9	192.7	190.0	232.3	224.3	182.1	145.2	137.2
75°	424.9	219.1	158.4	147.8	116.1	139.9	184.7	174.2	129.3	95.0	87.1
77.5°	277.1	155.7	108.2	95.0	66.0	92.4	137.2	121.4	76.5	47.5	42.2
80°	174.2	102.9	63.3	44.9	31.7	50.1	73.9	52.8	29.0	10.6	7.9
82.5°	92.4	52.8	23.8	15.8	13.2	15.8	18.5	13.2	5.3	0.0	0.0
85°	36.9	18.5	7.9	5.3	2.6	0.0	5.3	2.6	0.0	0.0	0.0
87.5°	13.2	2.6	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)