

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: P943818

Luminaire Tested: **GALN-SB8C-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943818
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-SB8C-722-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 615mA 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: 37877 lumens
Efficiency: N/A
Efficacy: 94.7 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): 399.8
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



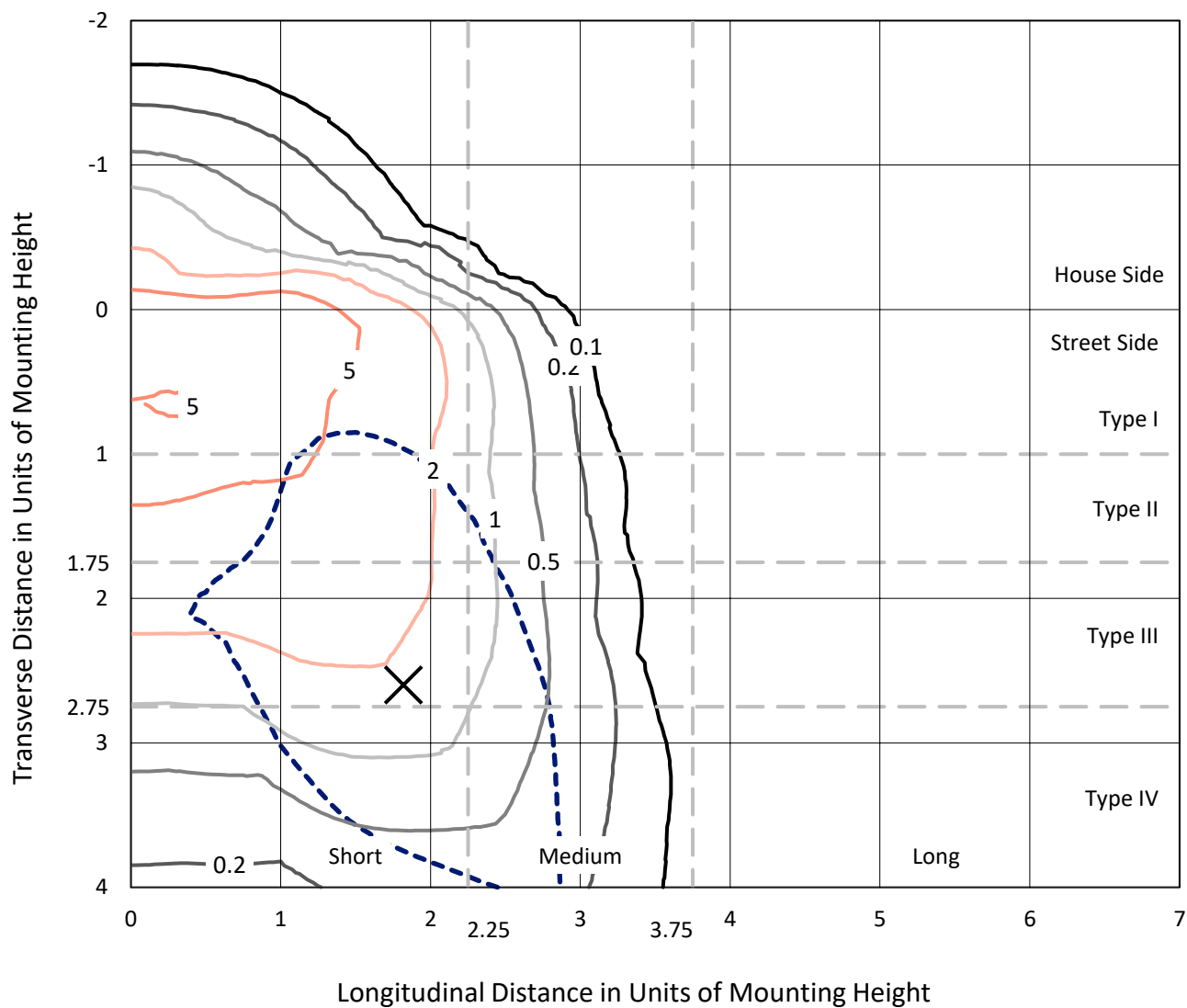
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

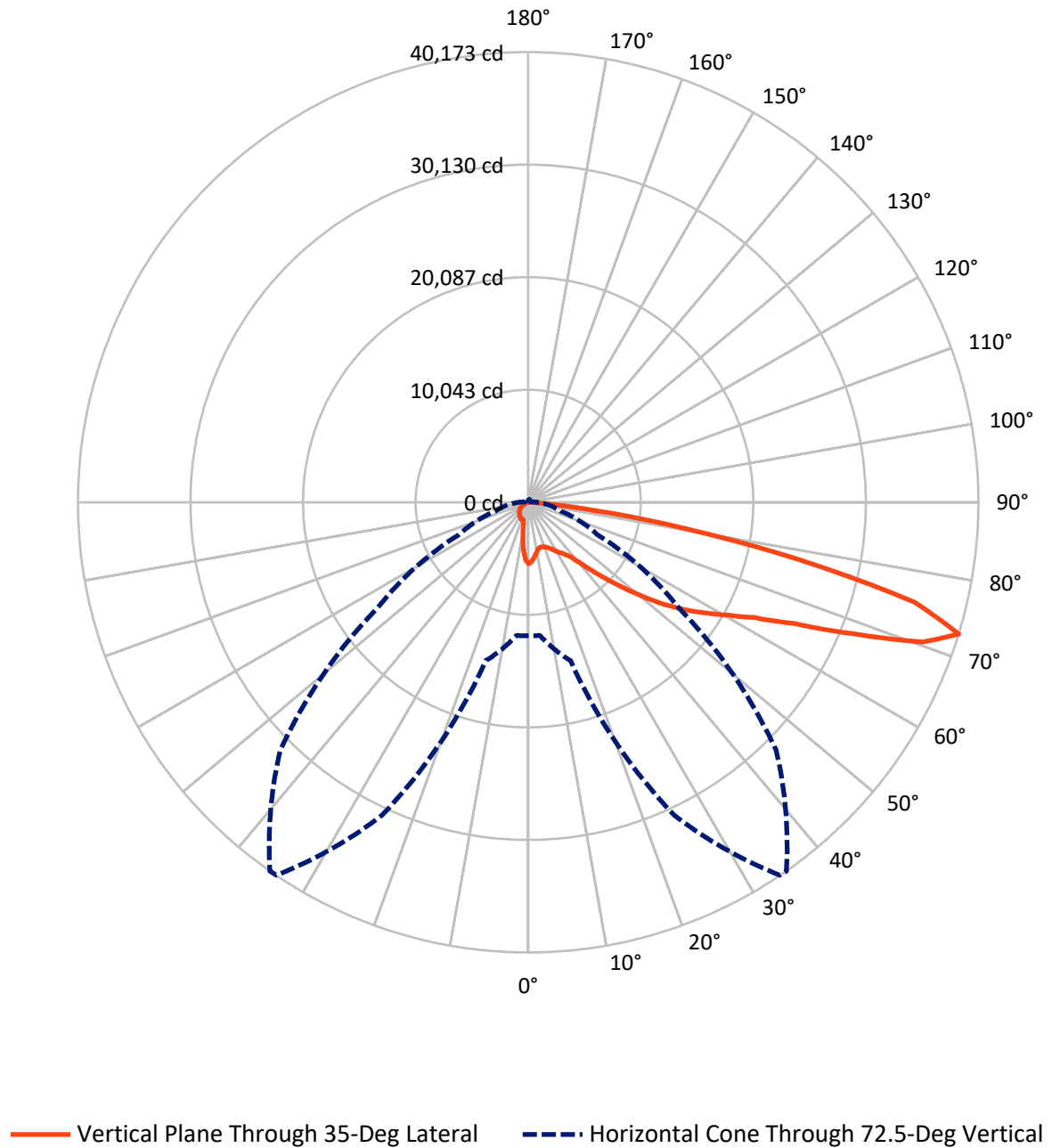
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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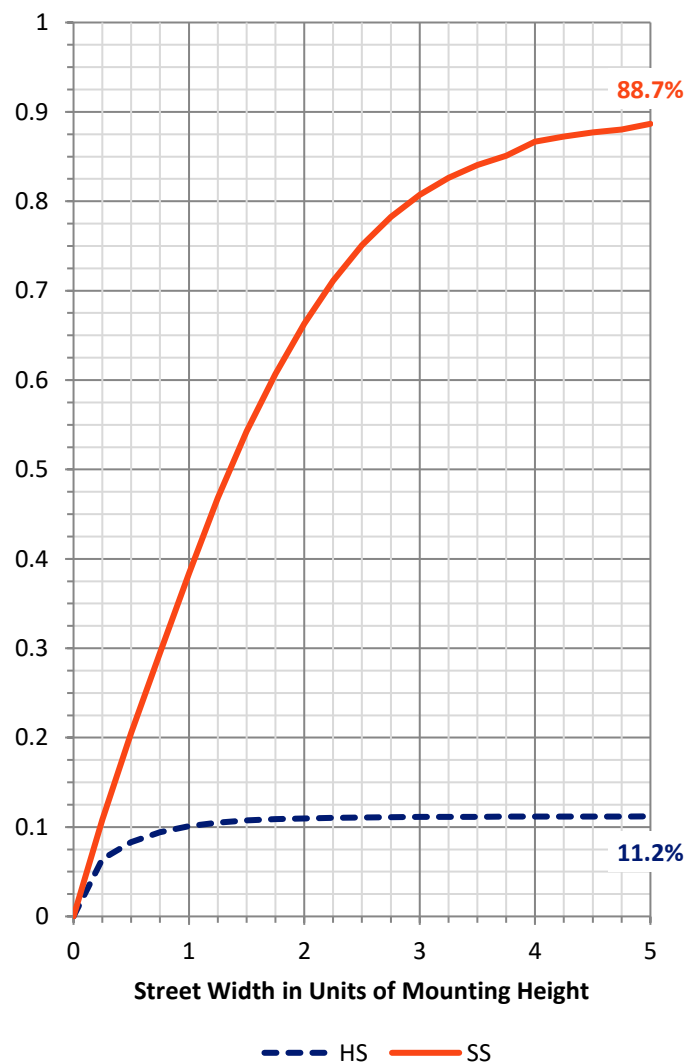
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4262.9	0.0	4262.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	33614.1	0.0	33614.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	37877.0	0.0	37877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.1	1.2
10°-20°	1055.3	2.8
20°-30°	1714.3	4.5
30°-40°	2860.3	7.6
40°-50°	5411.8	14.3
50°-60°	8599.3	22.7
60°-70°	10637.9	28.1
70°-80°	6612.6	17.5
80°-90°	534.4	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°	37877.0	100.0
0°-180°	37877.0	100.0

Coefficient of Utilization



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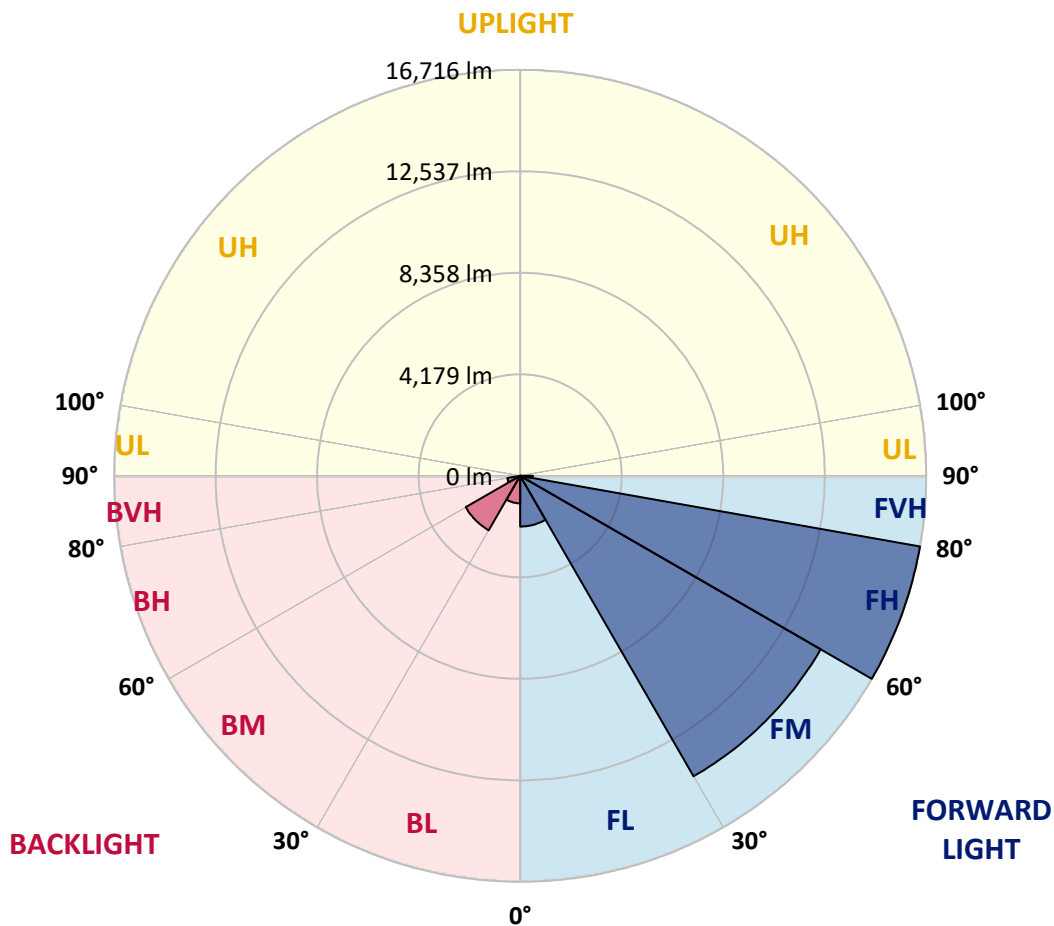
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2088.0	5.5			
FM	(30°-60°)	14283.4	37.7			
FH	(60°-80°)	16715.6	44.1			G5
FVH	(80°-90°)	527.1	1.4			G4/750
BL	(0°-30°)	1132.7	3.0	B3/2500		
BM	(30°-60°)	2588.0	6.8	B3/5000		
BH	(60°-80°)	534.9	1.4	B2/1000		G2/1000
BVH	(80°-90°)	7.3	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°	5489.6	5489.6	5489.6	5489.6	5489.6	5489.6	5489.6	5489.6	5489.6	5489.6	5489.6
2.5°	5245.4	5289.8	5298.1	5312.0	5312.0	5328.7	5356.4	5395.3	5459.1	5492.4	5514.6
5°	4834.7	4868.0	4909.6	4942.9	5006.7	5015.1	5123.3	5228.8	5375.9	5486.9	5564.6
7.5°	4421.1	4460.0	4515.5	4596.0	4679.2	4704.2	4868.0	5045.6	5278.7	5486.9	5617.3
10°	4129.7	4132.5	4182.5	4262.9	4396.2	4426.7	4626.5	4879.1	5170.5	5453.6	5667.3
12.5°	3966.0	3985.4	4007.6	4068.7	4196.3	4215.8	4429.5	4726.4	5062.2	5434.1	5725.6
15°	3966.0	3979.9	3993.7	4024.3	4126.9	4143.6	4332.3	4629.3	5006.7	5442.5	5819.9
17.5°	4007.6	4029.8	4018.7	4054.8	4163.0	4174.1	4340.7	4601.5	5004.0	5495.2	5964.2
20°	4107.5	4124.2	4102.0	4124.2	4232.4	4254.6	4426.7	4654.3	5051.1	5586.8	6144.6
22.5°	4265.7	4274.0	4221.3	4238.0	4349.0	4376.7	4576.6	4804.1	5164.9	5733.9	6386.1
25°	4465.5	4482.2	4401.7	4421.1	4526.6	4559.9	4790.3	5028.9	5345.3	5936.5	6694.2
27.5°	4695.9	4704.2	4634.8	4632.1	4768.1	4815.2	5048.4	5306.5	5586.8	6191.8	7082.7
30°	4959.6	4984.5	4917.9	4906.8	5078.9	5117.8	5348.1	5647.8	5942.0	6574.8	7635.0
32.5°	5167.7	5187.1	5148.3	5176.0	5350.9	5381.4	5711.7	6130.8	6499.9	7118.8	8387.1
35°	5467.4	5478.5	5389.7	5439.7	5639.5	5717.2	6208.5	6807.9	7202.0	7801.5	9369.6
37.5°	6552.6	6552.6	6175.2	5928.2	6119.7	6189.0	6888.4	7660.0	8067.9	8717.4	10607.4
40°	8054.1	8029.1	7476.8	6971.7	6946.7	7082.7	7857.0	8734.0	9186.4	9816.4	12000.6
42.5°	9655.5	9616.6	8864.5	8364.9	8281.7	8328.8	8975.5	10057.9	10518.6	11156.9	13499.3
45°	11076.4	11065.3	10377.0	9705.4	9555.5	9705.4	10371.5	11606.5	11936.8	12608.4	14995.2
47.5°	12267.1	12267.1	11764.7	11326.2	11248.5	11337.3	12261.5	13324.5	13293.9	14154.3	16452.3
50°	13638.1	13627.0	13149.6	12960.9	13041.4	13166.3	14437.4	15134.0	14698.3	15672.4	17753.9
52.5°	14598.4	14665.0	14501.2	14470.7	14881.4	15097.9	16646.6	16904.7	15955.5	17112.8	18728.1
55°	15358.8	15436.5	15625.2	15838.9	16629.9	16913.0	18786.4	18583.8	17007.4	18361.7	19288.7
57.5°	16435.6	16324.6	16616.0	17037.9	18317.3	18658.7	20859.5	20168.5	17853.8	19374.7	19349.8
60°	17742.8	17759.5	17809.4	18342.3	20002.0	20440.5	22902.2	21667.2	18397.8	19996.4	18672.6
62.5°	19313.7	19338.7	19441.3	20260.1	22263.9	22677.4	25078.1	22893.9	18647.6	19821.6	16924.1
65°	19205.4	19310.9	20457.1	23257.5	25702.5	26110.5	27617.5	23754.2	18270.1	18223.0	13779.6
67.5°	17495.8	17667.9	19585.7	26837.7	30886.9	31342.1	30687.1	23923.5	16641.0	14170.9	8989.4
70°	15253.3	15314.4	17620.7	30057.1	36890.0	37350.7	33434.7	22061.3	12627.9	7904.2	4027.0
72.5°	11911.8	11925.7	14631.7	30803.6	40148.2	40173.2	31278.2	16377.4	6791.3	3036.2	1398.8
75°	8509.2	8426.0	9799.8	24980.9	35321.9	35605.0	23449.0	7682.2	2595.0	1434.9	696.6
77.5°	4562.7	4654.3	5545.2	14814.8	24400.9	24883.8	12794.4	2214.7	1321.1	976.9	460.7
80°	1409.9	1487.6	2273.0	6783.0	13821.3	14112.7	4743.1	985.3	921.4	696.6	302.5
82.5°	444.1	460.7	1060.2	2850.3	5736.7	5869.9	1373.8	557.8	630.0	460.7	177.6
85°	127.7	130.4	471.8	1063.0	1418.2	1446.0	385.8	216.5	360.8	285.9	91.6
87.5°	13.9	44.4	177.6	177.6	124.9	122.1	41.6	47.2	102.7	36.1	16.7
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°	5489.6	5489.6	5489.6	5489.6	5489.6	5489.6	5489.6	5489.6	5489.6	5489.6	5489.6
2.5°	5500.7	5503.5	5467.4	5406.4	5339.8	5284.3	5214.9	5159.4	5120.5	5109.4	5128.9
5°	5539.6	5520.2	5417.5	5231.5	5009.5	4818.0	4604.3	4435.0	4324.0	4276.8	4293.5
7.5°	5597.9	5542.4	5317.6	4951.2	4526.6	4149.2	3766.2	3469.2	3280.5	3186.1	3200.0
10°	5647.8	5536.8	5151.1	4546.0	3896.6	3324.9	2808.7	2450.6	2250.8	2156.4	2159.2
12.5°	5695.0	5534.1	4934.6	4065.9	3186.1	2486.7	2006.6	1829.0	1773.5	1754.0	1748.5
15°	5783.8	5542.4	4662.6	3516.4	2478.4	1878.9	1704.1	1701.3	1712.4	1706.8	1704.1
17.5°	5906.0	5550.7	4354.5	2933.5	1912.2	1656.9	1648.6	1673.5	1690.2	1681.9	1679.1
20°	6064.1	5584.0	4027.0	2356.3	1643.0	1601.4	1620.8	1643.0	1656.9	1643.0	1640.2
22.5°	6286.2	5642.3	3669.0	1892.8	1557.0	1568.1	1584.7	1609.7	1623.6	1604.2	1601.4
25°	6558.2	5733.9	3316.5	1645.8	1515.3	1529.2	1554.2	1582.0	1598.6	1579.2	1576.4
27.5°	6910.6	5881.0	2991.8	1590.3	1473.7	1482.0	1518.1	1559.7	1582.0	1557.0	1557.0
30°	7421.3	6122.4	2711.5	1615.3	1448.7	1429.3	1479.3	1537.5	1562.5	1540.3	1537.5
32.5°	8098.5	6463.8	2539.4	1654.1	1437.6	1368.2	1415.4	1490.4	1532.0	1518.1	1518.1
35°	8986.6	6982.8	2472.8	1698.5	1429.3	1304.4	1337.7	1418.2	1490.4	1504.2	1504.2
37.5°	10063.4	7704.4	2492.3	1717.9	1404.3	1251.7	1268.3	1337.7	1432.1	1476.5	1487.6
40°	11287.4	8545.3	2603.3	1698.5	1376.6	1207.3	1210.1	1262.8	1346.0	1412.7	1434.9
42.5°	12550.1	9527.8	2808.7	1626.4	1351.6	1168.4	1160.1	1196.2	1251.7	1298.9	1318.3
45°	13751.9	10538.0	3011.3	1526.4	1321.1	1129.6	1110.1	1124.0	1135.1	1154.5	1165.6
47.5°	14801.0	11248.5	2953.0	1434.9	1279.4	1085.2	1051.9	1046.3	1013.0	1010.2	1007.5
50°	15525.3	11403.9	2622.7	1343.3	1218.4	1035.2	982.5	949.2	890.9	863.1	865.9
52.5°	15755.7	10790.6	2142.6	1251.7	1118.5	968.6	893.7	840.9	768.8	743.8	741.0
55°	15450.4	9588.8	1712.4	1140.7	979.7	879.8	796.5	727.1	668.9	638.3	638.3
57.5°	14703.8	8059.6	1354.4	1010.2	832.6	779.9	696.6	627.2	577.3	546.7	541.2
60°	13466.0	6400.0	1071.3	854.8	710.5	671.6	585.6	541.2	496.8	460.7	452.4
62.5°	11587.1	4568.2	840.9	677.2	593.9	549.5	499.6	466.3	413.5	363.6	355.2
65°	9042.1	2794.8	649.4	496.8	477.4	455.2	424.6	394.1	330.3	280.3	272.0
67.5°	5703.3	1323.8	463.5	374.7	377.4	366.3	352.5	327.5	280.3	235.9	230.4
70°	2511.7	641.1	305.3	285.9	280.3	280.3	291.4	283.1	238.7	197.1	188.7
72.5°	854.8	344.1	227.6	216.5	202.6	199.8	244.2	235.9	191.5	152.6	144.3
75°	446.8	230.4	166.5	155.4	122.1	147.1	194.3	183.2	136.0	99.9	91.6
77.5°	291.4	163.7	113.8	99.9	69.4	97.1	144.3	127.7	80.5	50.0	44.4
80°	183.2	108.2	66.6	47.2	33.3	52.7	77.7	55.5	30.5	11.1	8.3
82.5°	97.1	55.5	25.0	16.7	13.9	16.7	19.4	13.9	5.6	0.0	0.0
85°	38.9	19.4	8.3	5.6	2.8	0.0	5.6	2.8	0.0	0.0	0.0
87.5°	13.9	2.8	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)