

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: P529246

Luminaire Tested: **GALN-SA4B-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

#### Test Information

Test Method: LM-79-08  
Report Number: P529246  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4B-827-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 14025 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 164  
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

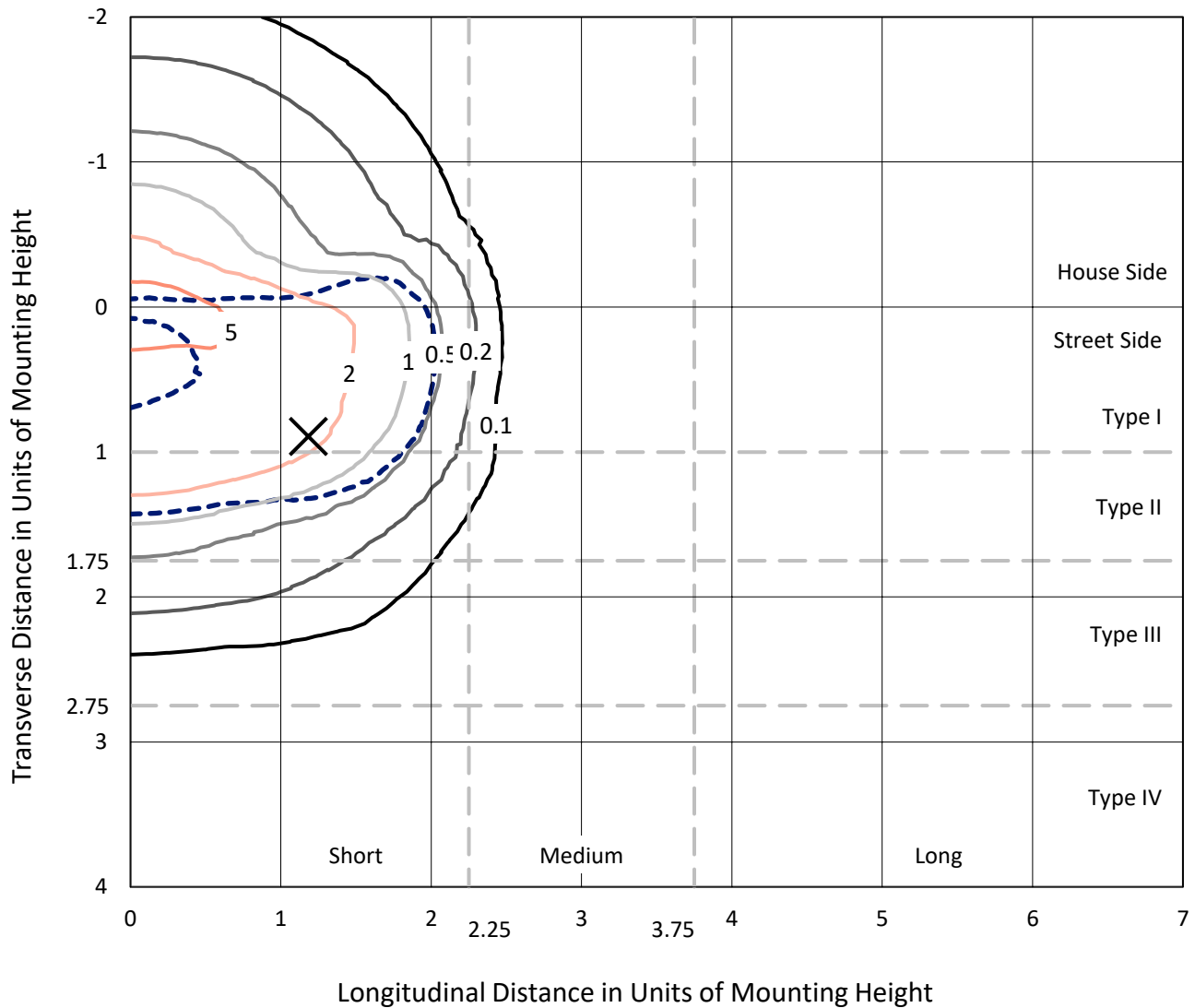


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

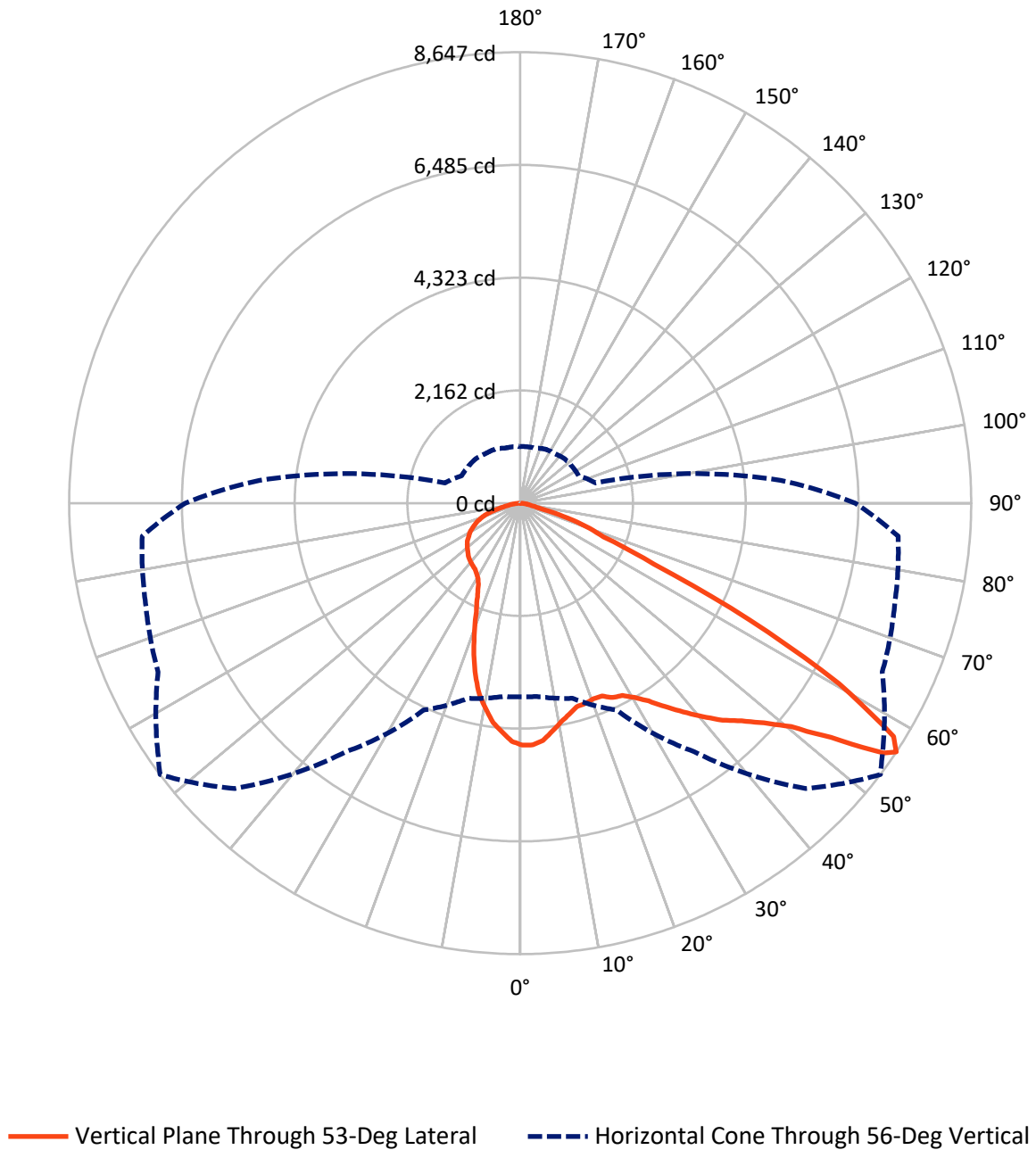


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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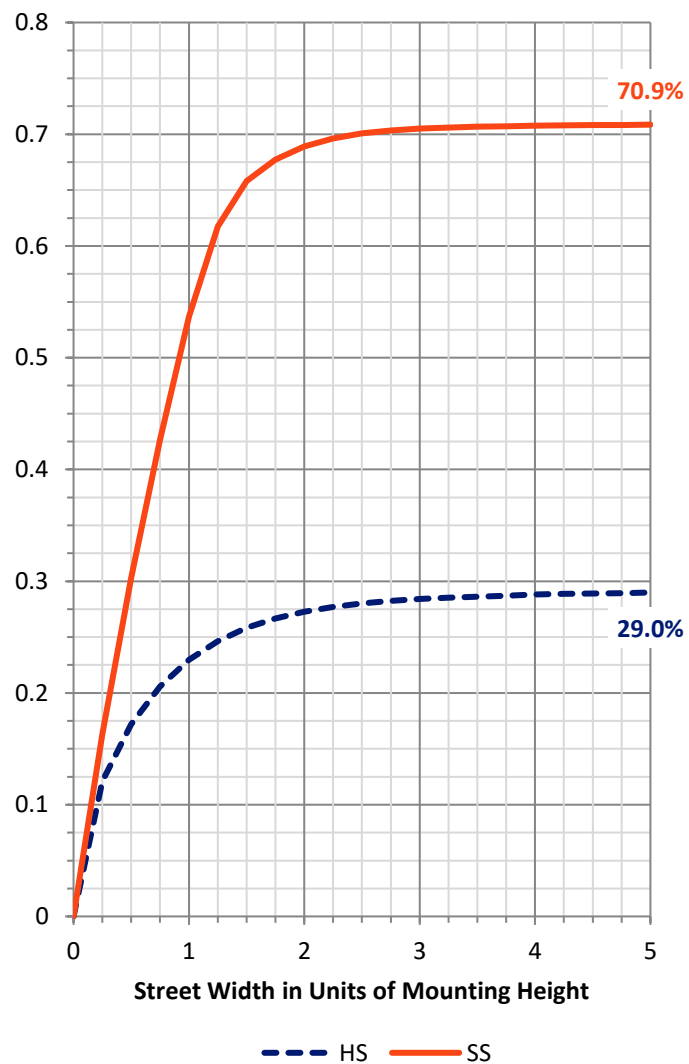
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4092.8	0.0	4092.8
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	9932.2	0.0	9932.2
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	14025.0	0.0	14025.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	410.8	2.9
10°-20°	1025.9	7.3
20°-30°	1512.8	10.8
30°-40°	2161.5	15.4
40°-50°	2975.1	21.2
50°-60°	3515.7	25.1
60°-70°	1873.7	13.4
70°-80°	475.3	3.4
80°-90°	74.1	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°	14025.0	100.0
0°-180°	14025.0	100.0

**Coefficient of Utilization**



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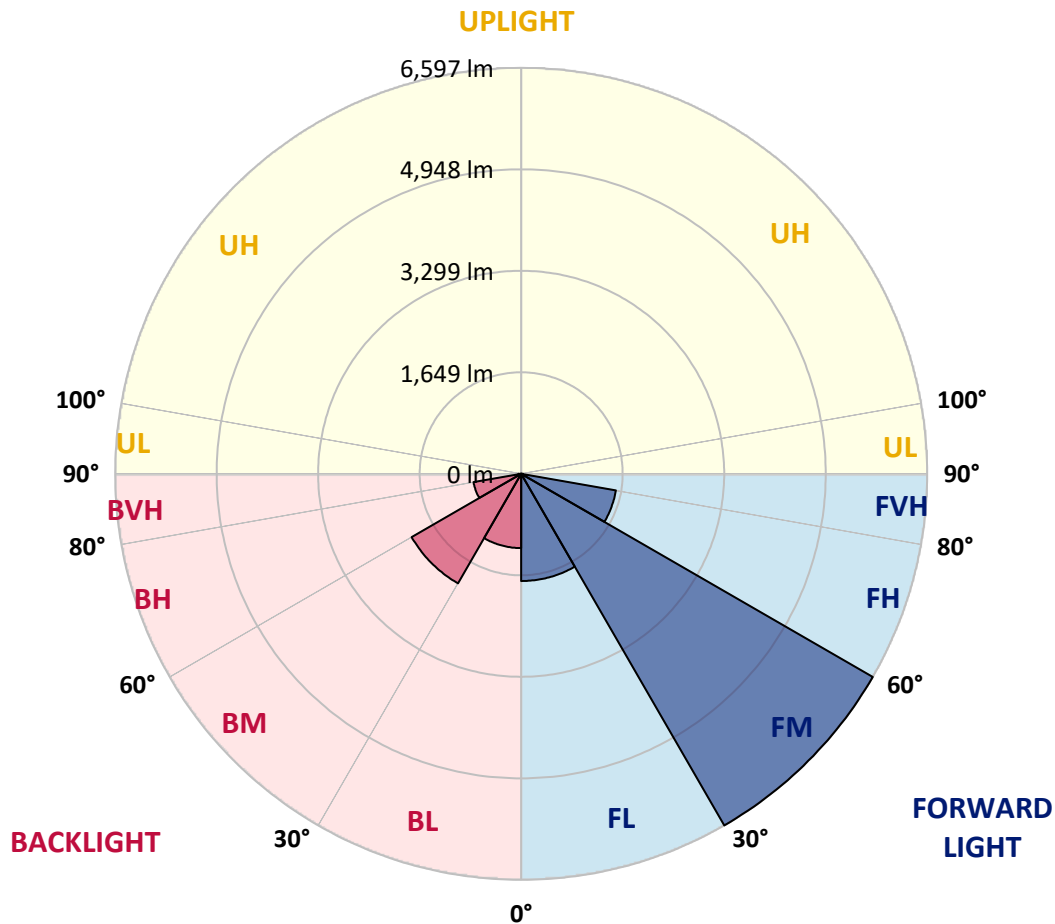
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1742.4	12.4			
FM	(30°-60°)	6597.1	47.0			
FH	(60°-80°)	1562.9	11.1			G1/1800
FVH	(80°-90°)	29.8	0.2			G1/100
BL	(0°-30°)	1207.1	8.6	B3/2500		
BM	(30°-60°)	2055.3	14.7	B2/2500		
BH	(60°-80°)	786.1	5.6	B2/1000		G2/1000
BVH	(80°-90°)	44.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4640.0	4640.0	4640.0	4640.0	4640.0	4640.0	4640.0	4640.0	4640.0	4640.0	4640.0
2.5°	4582.4	4542.9	4566.3	4557.3	4631.0	4652.6	4641.8	4650.8	4692.2	4672.4	4631.0
5°	4282.0	4337.8	4348.6	4375.5	4418.7	4503.3	4569.9	4587.8	4607.6	4699.4	4690.4
7.5°	4008.5	4046.3	4026.5	4105.7	4199.2	4336.0	4416.9	4431.3	4613.0	4663.4	4701.2
10°	3835.8	3798.0	3888.0	3909.6	4015.7	4172.2	4269.4	4328.8	4494.3	4694.0	4717.4
12.5°	3675.7	3663.1	3717.1	3778.2	3897.0	4058.9	4157.8	4181.2	4436.7	4647.2	4757.0
15°	3556.9	3542.5	3596.5	3641.5	3780.0	3924.0	4049.9	4116.5	4373.7	4620.2	4722.8
17.5°	3463.4	3461.6	3492.2	3573.1	3715.3	3835.8	4039.1	4042.7	4341.4	4661.6	4751.6
20°	3458.0	3456.2	3461.6	3551.5	3681.1	3828.6	4004.9	4037.3	4341.4	4632.8	4753.4
22.5°	3503.0	3474.2	3506.6	3564.1	3657.7	3841.2	4017.5	4089.5	4445.7	4775.0	4834.3
25°	3574.9	3582.1	3600.1	3619.9	3673.9	3870.0	4129.1	4188.4	4568.1	4897.3	4945.9
27.5°	3706.3	3702.7	3709.9	3720.7	3767.4	3897.0	4174.0	4327.0	4823.5	5115.0	5066.4
30°	3898.8	3886.2	3915.0	3952.7	3909.6	3983.3	4323.4	4438.5	5061.0	5334.5	5201.4
32.5°	4073.3	4120.1	4174.0	4190.2	4138.1	4152.5	4521.3	4638.2	5258.9	5604.4	5366.9
35°	4291.0	4328.8	4400.7	4451.1	4442.1	4398.9	4791.2	4945.9	5545.0	5802.3	5541.4
37.5°	4503.3	4548.3	4667.0	4816.3	4733.6	4713.8	5079.0	5206.8	5633.2	5908.4	5669.1
40°	4845.1	4843.3	5048.4	5125.8	5199.6	5165.4	5377.7	5420.9	5679.9	5885.0	5672.7
42.5°	5246.3	5221.2	5429.9	5550.4	5645.8	5649.3	5688.9	5674.5	5701.5	5766.3	5635.0
45°	5627.8	5681.7	5892.2	6108.1	6203.5	6214.3	5951.6	5924.6	5739.3	5732.1	5563.0
47.5°	6093.7	6106.3	6279.1	6563.3	6784.6	6709.1	6291.6	6232.3	5904.8	5960.6	5683.5
50°	6120.7	6214.3	6369.0	6703.7	7383.7	7363.9	6732.4	6620.9	6171.1	6284.5	6020.0
52.5°	5555.8	5534.2	5717.7	6264.7	7338.8	8015.2	7462.9	7196.6	6743.2	6656.9	6565.1
55°	4233.4	4283.8	4445.7	4998.1	6372.6	8024.2	8457.8	8240.1	7354.9	7207.4	7101.3
56°	3713.5	3720.7	3873.6	4377.3	5814.9	7738.2	8646.7	8470.4	7659.0	7434.1	7272.2
57.5°	3078.4	3037.0	3116.1	3391.4	4908.1	7133.7	8439.8	8612.6	8015.2	7678.8	7453.9
60°	2423.5	2414.5	2382.1	2432.5	3101.7	5374.1	7025.7	7414.3	7979.3	7448.5	7139.1
62.5°	1979.1	1934.1	1998.9	2070.8	2155.4	3333.8	4936.9	5165.4	6334.8	5946.2	5363.3
65°	1534.7	1513.1	1594.1	1827.9	1878.3	2117.6	2812.1	2988.4	3740.4	3673.9	3234.9
67.5°	1056.1	1059.7	1129.9	1486.1	1741.6	1720.0	1721.8	1813.5	1952.1	1450.1	1263.0
70°	669.3	667.5	705.3	957.2	1401.5	1415.9	1344.0	1317.0	1248.6	755.6	800.6
72.5°	430.0	417.4	437.2	529.0	725.1	838.4	863.6	879.8	723.3	593.7	644.1
75°	242.9	230.3	223.1	246.5	286.1	331.0	363.4	374.2	419.2	449.8	476.8
77.5°	73.8	66.6	81.0	107.9	142.1	190.7	232.1	239.3	282.5	318.5	345.4
80°	32.4	36.0	50.4	72.0	100.8	134.9	163.7	174.5	203.3	230.3	237.5
82.5°	19.8	21.6	34.2	48.6	70.2	95.4	116.9	120.5	149.3	170.9	176.3
85°	7.2	9.0	18.0	28.8	45.0	61.2	61.2	66.6	61.2	61.2	66.6
87.5°	0.0	0.0	1.8	3.6	3.6	5.4	7.2	7.2	9.0	10.8	12.6
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°	4640.0	4640.0	4640.0	4640.0	4640.0	4640.0	4640.0	4640.0	4640.0	4640.0	4640.0
2.5°	4652.6	4643.6	4629.2	4577.1	4571.7	4555.5	4465.5	4451.1	4465.5	4422.3	4425.9
5°	4643.6	4670.6	4562.7	4510.5	4413.3	4343.2	4262.2	4220.8	4147.1	4100.3	4152.5
7.5°	4683.2	4672.4	4537.5	4424.1	4278.4	4100.3	3958.1	3877.2	3747.6	3711.7	3738.6
10°	4668.8	4611.2	4452.9	4303.6	4028.3	3871.8	3641.5	3418.4	3296.1	3233.1	3224.1
12.5°	4649.0	4632.8	4368.4	4111.1	3821.4	3492.2	3168.3	2957.8	2758.1	2671.7	2684.3
15°	4672.4	4535.7	4210.0	3884.4	3499.4	3067.6	2718.5	2446.9	2308.3	2252.5	2252.5
17.5°	4661.6	4488.9	4134.5	3630.7	3143.1	2632.2	2248.9	2085.2	2027.6	2027.6	2043.8
20°	4667.0	4519.5	3981.5	3377.0	2722.1	2216.6	1937.7	1878.3	1903.5	1912.5	1921.5
22.5°	4697.6	4418.7	3832.2	3098.1	2331.7	1896.3	1759.6	1761.4	1806.4	1854.9	1845.9
25°	4735.4	4379.1	3650.5	2821.1	2033.0	1739.8	1696.6	1691.2	1725.4	1750.6	1754.2
27.5°	4703.0	4310.8	3465.2	2475.6	1788.4	1635.4	1626.4	1630.0	1640.8	1691.2	1675.0
30°	4809.1	4330.6	3233.1	2186.0	1653.4	1601.2	1590.5	1585.1	1601.2	1615.6	1603.0
32.5°	4940.5	4260.4	3060.4	1907.1	1586.9	1576.1	1554.5	1547.3	1556.3	1541.9	1549.1
35°	4998.1	4247.8	2835.5	1707.4	1534.7	1525.7	1513.1	1511.3	1513.1	1500.5	1489.7
37.5°	5030.4	4307.2	2578.2	1615.6	1502.3	1511.3	1482.5	1478.9	1446.5	1453.7	1459.1
40°	5086.2	4215.4	2369.5	1527.5	1482.5	1464.5	1439.3	1433.9	1412.3	1399.7	1412.3
42.5°	5005.3	4188.4	2164.4	1489.7	1453.7	1433.9	1415.9	1385.3	1378.2	1367.4	1360.2
45°	4940.5	4033.7	1980.9	1442.9	1419.5	1408.7	1374.6	1342.2	1315.2	1326.0	1309.8
47.5°	4989.1	3979.7	1799.2	1403.3	1372.8	1360.2	1326.0	1300.8	1273.8	1261.2	1257.6
50°	5183.4	4080.5	1646.2	1374.6	1333.2	1326.0	1281.0	1252.2	1227.0	1218.0	1221.6
52.5°	5647.5	4355.8	1541.9	1315.2	1295.4	1263.0	1237.8	1201.8	1185.6	1156.9	1174.8
55°	6235.9	4803.7	1514.9	1259.4	1248.6	1219.8	1185.6	1158.7	1128.1	1104.7	1099.3
56°	6424.8	5017.8	1493.3	1237.8	1219.8	1203.6	1158.7	1142.5	1093.9	1088.5	1084.9
57.5°	6577.7	5206.8	1496.9	1196.4	1178.4	1164.1	1137.1	1097.5	1065.1	1045.3	1054.3
60°	6232.3	4873.9	1428.5	1133.5	1129.9	1102.9	1065.1	1047.1	1007.5	984.1	978.7
62.5°	4632.8	3308.6	1158.7	1052.5	1050.7	1021.9	978.7	959.0	951.8	919.4	919.4
65°	2668.1	2074.4	1002.1	985.9	971.5	942.8	899.6	883.4	865.4	854.6	845.6
67.5°	1138.9	1075.9	910.4	908.6	892.4	856.4	813.2	788.0	764.6	743.1	753.8
70°	825.8	838.4	822.2	813.2	793.4	748.4	710.7	680.1	644.1	629.7	640.5
72.5°	654.9	681.9	705.3	707.1	683.7	631.5	590.1	548.7	509.2	489.4	498.4
75°	496.6	514.6	537.9	543.3	509.2	473.2	433.6	390.4	359.8	336.4	340.0
77.5°	358.0	354.4	376.0	372.4	356.2	331.0	295.1	255.5	221.3	199.7	201.5
80°	244.7	250.1	262.7	260.9	241.1	224.9	197.9	165.5	140.3	122.3	118.7
82.5°	170.9	179.9	190.7	181.7	165.5	149.3	129.5	106.2	86.4	72.0	68.4
85°	61.2	70.2	81.0	86.4	91.8	88.2	73.8	59.4	43.2	36.0	34.2
87.5°	12.6	14.4	16.2	16.2	16.2	14.4	12.6	12.6	10.8	5.4	5.4
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)