

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: P194896

Luminaire Tested: **GLEON-AF-08-LED-E1-T4W-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-T4W-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31212 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 257
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: 25 FT



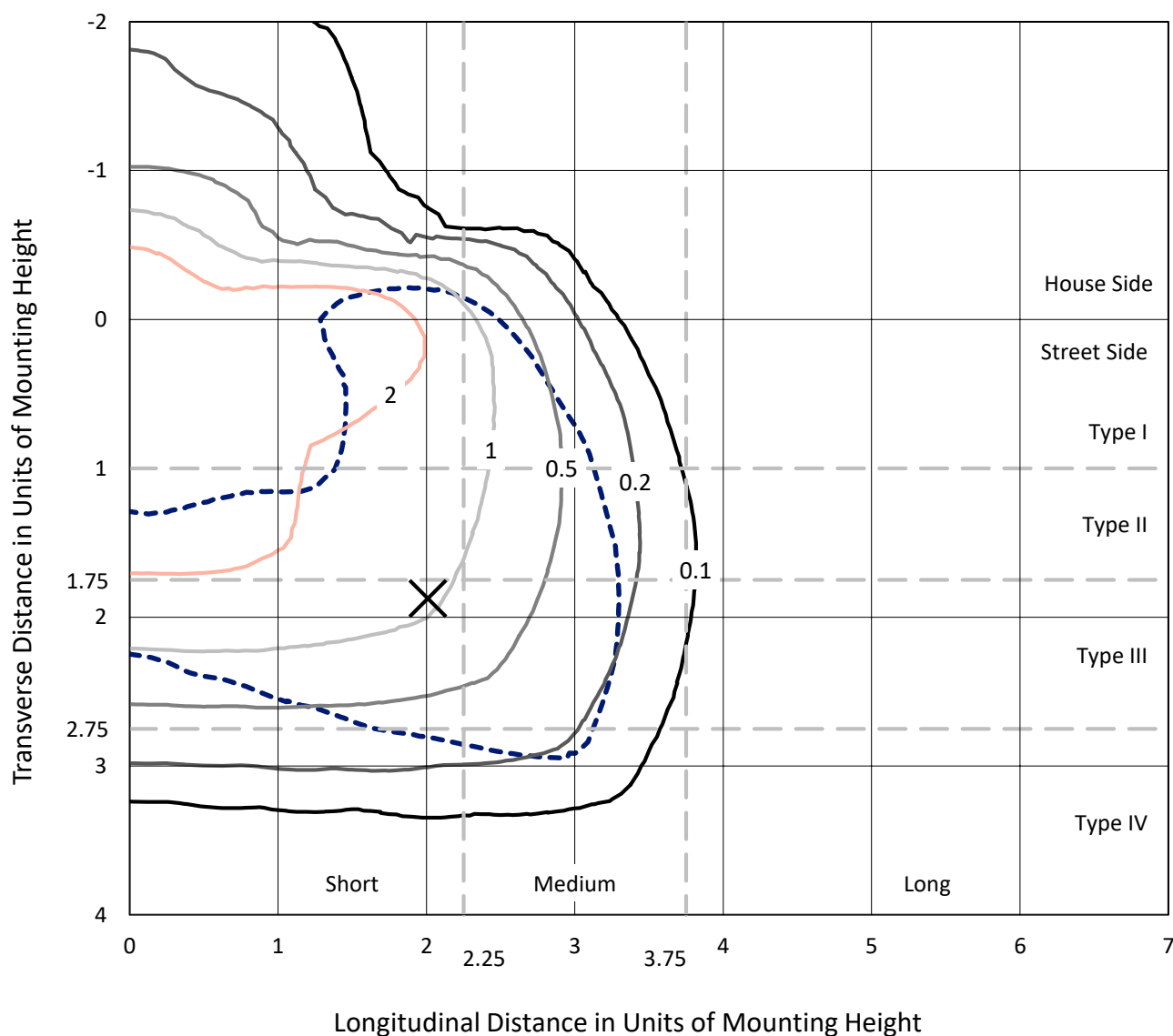
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

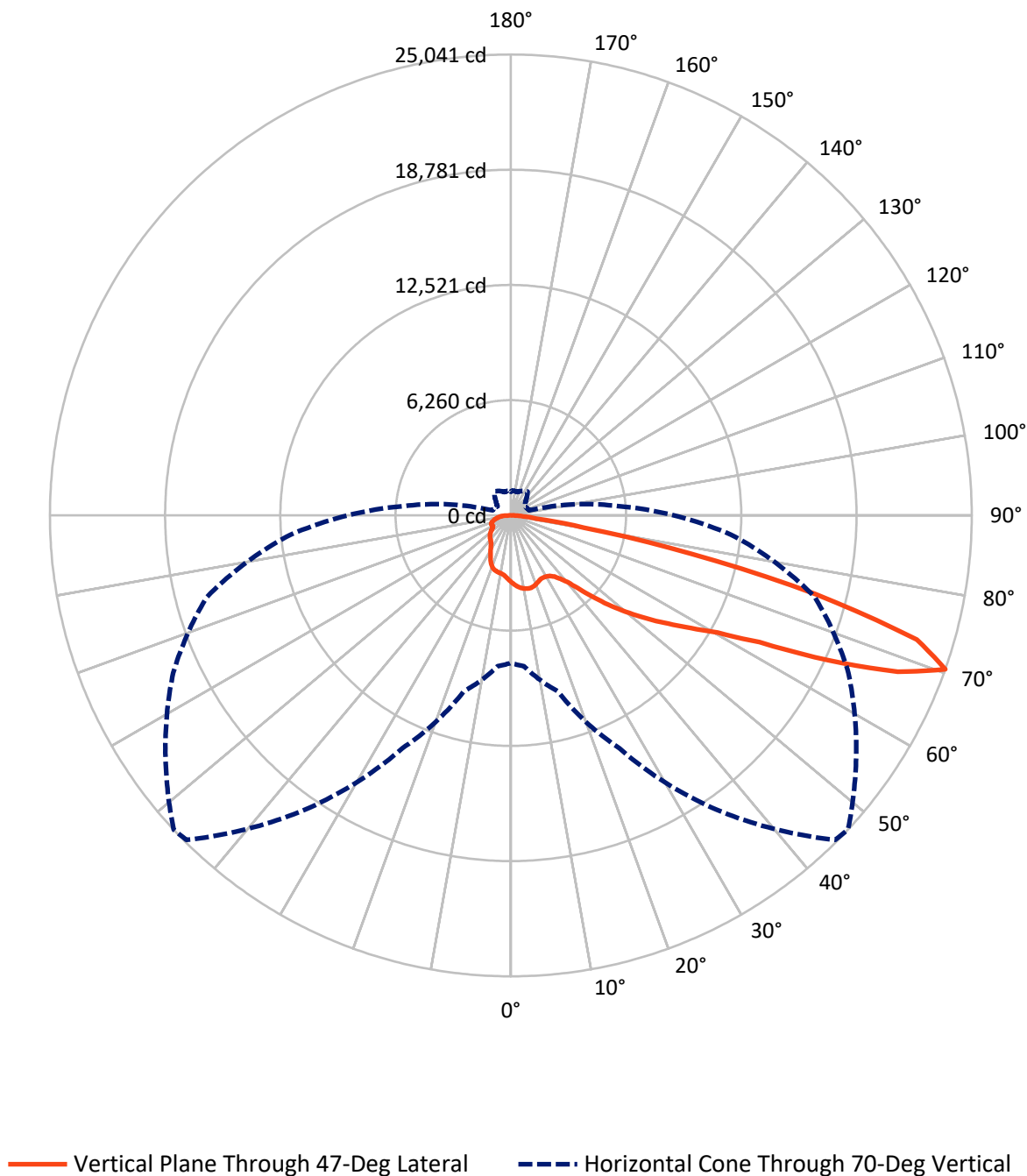


Based on 30 foot mounting height. Maximum calculated value = 4.6 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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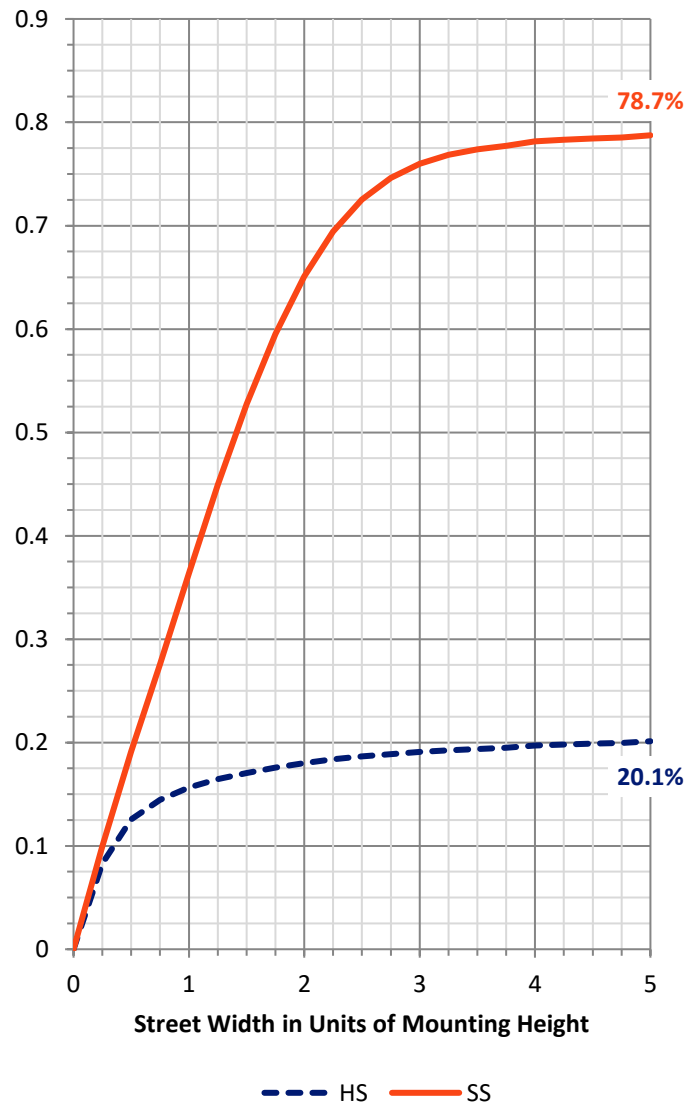
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6511.4	0.0	6511.4
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	24700.6	0.0	24700.6
	% Fixture	79.1	0.0	79.1
Total	Lumens	31212.0	0.0	31212.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.0	1.1
10°-20°	1018.0	3.3
20°-30°	1503.4	4.8
30°-40°	2185.1	7.0
40°-50°	3932.4	12.6
50°-60°	6812.5	21.8
60°-70°	9723.4	31.2
70°-80°	4991.4	16.0
80°-90°	698.8	2.2
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°	31212.0	100.0
0°-180°	31212.0	100.0

Coefficient of Utilization



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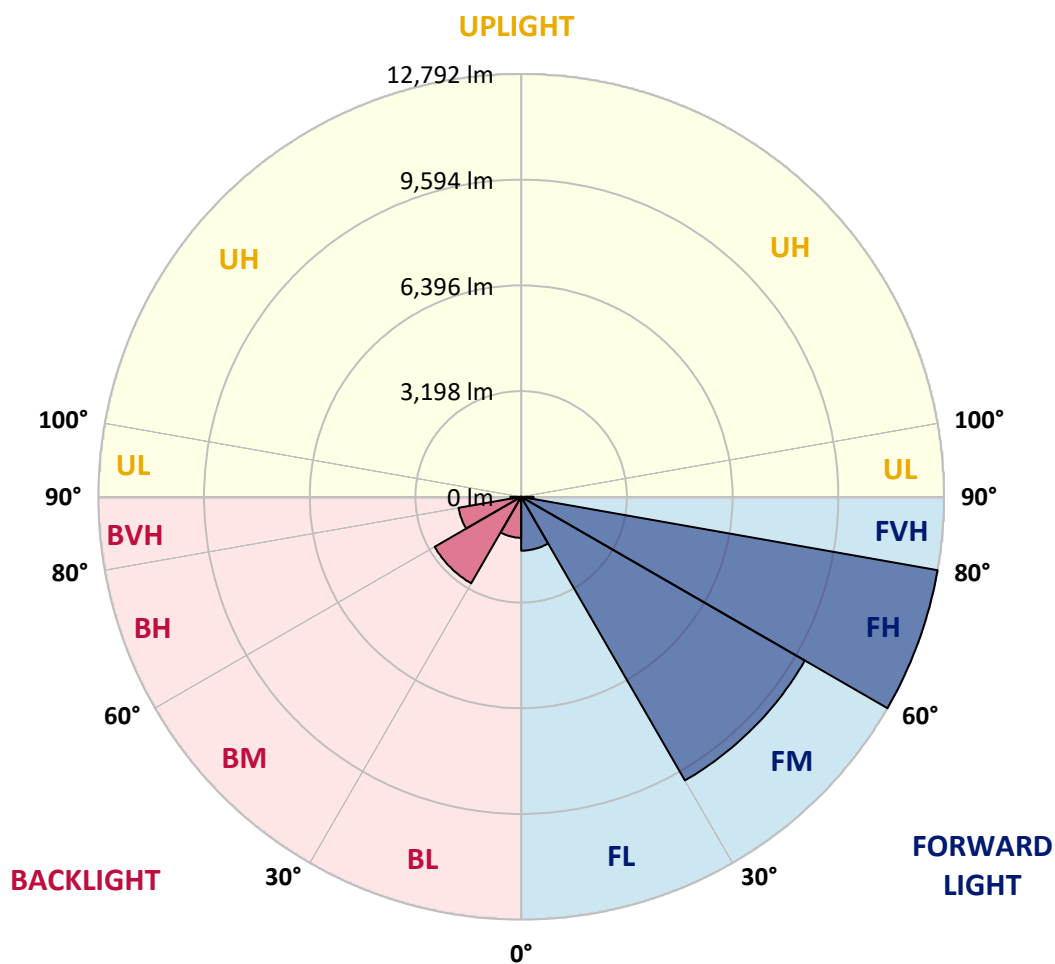
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1628.6	5.2			
FM	(30°-60°)	9907.6	31.7			
FH	(60°-80°)	12791.5	41.0			G5
FVH	(80°-90°)	372.9	1.2			G3/500
BL	(0°-30°)	1239.8	4.0	B3/2500		
BM	(30°-60°)	3022.4	9.7	B3/5000		
BH	(60°-80°)	1923.3	6.2	B3/2500		G3/2500
BVH	(80°-90°)	325.9	1.0			G3/500
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°	35°	45°	47°	55°	65°	75°	85°
0°	3621.6	3621.6	3621.6	3621.6	3621.6	3621.6	3621.6	3621.6	3621.6	3621.6	3621.6
2.5°	3834.2	3826.6	3823.5	3817.4	3809.9	3771.9	3764.3	3737.0	3699.0	3659.5	3618.5
5°	4086.2	4084.7	4068.0	4037.6	3989.0	3905.5	3885.8	3819.0	3729.4	3642.8	3556.3
7.5°	4307.9	4294.2	4262.4	4201.6	4116.6	4002.7	3975.4	3882.7	3759.7	3641.3	3524.4
10°	4470.4	4462.8	4392.9	4309.4	4198.6	4072.6	4040.7	3937.4	3802.3	3651.9	3506.2
12.5°	4563.0	4547.8	4467.4	4367.1	4235.0	4112.0	4080.1	3975.4	3823.5	3651.9	3480.3
15°	4556.9	4546.3	4465.8	4356.5	4222.9	4115.1	4086.2	3981.4	3819.0	3636.7	3446.9
17.5°	4435.5	4440.0	4371.7	4263.9	4154.5	4072.6	4046.7	3949.6	3788.6	3606.4	3407.5
20°	4222.9	4244.1	4198.6	4102.9	4042.2	3986.0	3969.3	3887.3	3741.5	3562.3	3364.9
22.5°	4010.3	4030.0	4011.8	3931.3	3922.2	3888.8	3879.7	3820.5	3700.5	3535.0	3339.1
25°	3853.9	3872.1	3869.1	3799.2	3826.6	3825.0	3817.4	3788.6	3691.4	3535.0	3343.7
27.5°	3811.4	3817.4	3811.4	3747.6	3785.6	3815.9	3809.9	3805.3	3718.7	3579.0	3401.4
30°	3957.1	3948.0	3901.0	3771.9	3806.8	3849.3	3843.3	3846.3	3800.7	3694.5	3530.5
32.5°	4538.7	4497.7	4348.9	3986.0	3893.4	3916.1	3919.2	3969.3	3976.9	3872.1	3730.9
35°	5408.8	5363.3	5170.4	4560.0	4162.1	4083.2	4083.2	4159.1	4204.7	4127.2	4042.2
37.5°	6330.5	6280.4	6177.2	5355.7	4727.0	4373.2	4365.6	4418.8	4484.1	4502.3	4523.5
40°	7378.3	7325.1	7354.0	6248.5	5515.1	4875.8	4768.0	4730.1	4906.2	5023.1	5193.2
42.5°	8524.7	8500.4	8511.1	7243.1	6412.5	5627.5	5474.1	5278.2	5490.8	5698.8	6055.7
45°	9586.1	9607.4	9596.8	8307.6	7411.7	6544.6	6382.2	6002.5	6210.6	6567.4	7149.0
47.5°	10515.4	10427.4	10564.0	9470.7	8530.8	7571.1	7370.7	6862.0	7073.1	7513.4	8497.4
50°	11643.7	11631.5	11431.1	11022.6	9883.8	8602.2	8339.5	7750.3	8078.3	8690.2	10196.6
52.5°	12829.6	12609.4	12425.7	12229.8	11318.7	9659.0	9337.1	8635.6	9259.7	10029.5	12267.8
55°	13072.6	12973.9	13201.6	13531.1	12702.0	10756.9	10381.8	9745.6	10589.8	11560.2	14656.3
57.5°	13591.9	13590.4	14061.1	14648.7	14126.4	11921.5	11543.4	11086.4	12085.5	13314.0	17192.2
60°	13942.6	14041.3	14916.0	16056.4	15524.9	13266.9	12919.2	12633.7	13786.2	15274.3	19554.9
62.5°	14126.4	14260.0	15453.5	16627.3	17501.9	15506.7	15158.9	14747.4	16036.6	17424.5	20936.7
65°	13362.6	13625.3	15370.0	17120.8	19233.0	19137.3	18980.9	18258.1	18850.4	19123.7	20437.2
67.5°	11248.9	11517.6	13549.4	16660.7	20469.0	22638.9	22672.4	21437.8	20581.4	19269.5	17183.1
70°	8014.5	8225.6	9906.5	13968.5	19527.6	24927.3	25041.2	22903.2	20236.7	17088.9	12005.1
72.5°	3805.3	3934.4	5525.7	9091.1	15496.0	22839.4	23059.6	21032.4	17207.4	12651.9	6549.2
75°	1398.5	1438.0	1867.7	3867.6	8987.9	16842.9	17102.6	15076.9	11406.8	6298.6	2494.9
77.5°	838.2	864.0	1047.7	1632.4	3535.0	9627.1	10011.3	8199.8	4985.2	2344.5	1226.9
80°	586.1	604.4	751.6	1015.9	1670.3	3668.6	4010.3	3346.7	1986.2	1483.6	892.9
82.5°	396.3	405.4	528.4	686.4	1110.0	1310.4	1413.7	1488.1	1339.3	1103.9	566.4
85°	259.7	268.8	358.4	452.5	706.1	677.2	692.4	876.2	977.9	750.1	314.3
87.5°	148.8	154.9	215.6	241.4	346.2	287.0	290.0	461.6	625.6	505.7	191.3
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°	3621.6	3621.6	3621.6	3621.6	3621.6	3621.6	3621.6	3621.6	3621.6	3621.6	3621.6
2.5°	3607.9	3588.2	3544.1	3516.8	3491.0	3484.9	3474.3	3472.8	3471.2	3471.2	3466.7
5°	3527.4	3494.0	3425.7	3387.7	3355.8	3352.8	3351.3	3358.9	3361.9	3364.9	3360.4
7.5°	3475.8	3430.2	3345.2	3290.5	3252.6	3243.5	3258.6	3293.6	3316.4	3325.5	3320.9
10°	3443.9	3387.7	3289.0	3229.8	3197.9	3193.4	3213.1	3254.1	3301.2	3319.4	3317.9
12.5°	3407.5	3343.7	3238.9	3176.7	3158.4	3167.5	3193.4	3231.3	3279.9	3308.8	3310.3
15°	3371.0	3296.6	3188.8	3134.1	3126.5	3138.7	3163.0	3191.8	3229.8	3258.6	3261.7
17.5°	3327.0	3249.5	3141.7	3085.5	3079.5	3085.5	3087.1	3102.2	3126.5	3153.9	3161.5
20°	3279.9	3200.9	3088.6	3032.4	3005.1	2980.8	2953.4	2956.5	2964.1	2991.4	2997.5
22.5°	3246.5	3167.5	3047.6	2970.1	2897.3	2824.4	2769.7	2762.1	2765.1	2787.9	2795.5
25°	3249.5	3166.0	3037.0	2903.3	2743.9	2627.0	2554.1	2541.9	2540.4	2557.1	2567.7
27.5°	3308.8	3225.2	3076.4	2835.0	2576.9	2403.7	2326.3	2317.2	2305.0	2309.6	2321.7
30°	3440.9	3363.4	3172.1	2765.1	2396.2	2185.1	2104.6	2095.5	2078.8	2071.2	2080.3
32.5°	3656.5	3592.7	3311.8	2698.3	2215.5	1998.3	1916.3	1896.6	1885.9	1876.8	1884.4
35°	4014.8	3987.5	3498.6	2625.4	2056.0	1854.1	1779.7	1749.3	1734.1	1750.8	1762.9
37.5°	4576.7	4591.9	3743.0	2511.6	1933.0	1758.4	1696.1	1661.2	1638.4	1652.1	1665.8
40°	5372.4	5383.0	4013.3	2350.6	1826.7	1702.2	1635.4	1603.5	1571.6	1547.3	1545.8
42.5°	6417.1	6309.3	4279.1	2176.0	1703.7	1667.3	1592.9	1553.4	1504.8	1438.0	1424.3
45°	7656.2	7278.1	4481.0	1975.5	1565.5	1624.8	1545.8	1491.1	1415.2	1342.3	1334.7
47.5°	9083.5	8318.2	4579.7	1767.5	1436.5	1562.5	1488.1	1401.6	1305.9	1269.4	1264.9
50°	10826.7	9552.7	4626.8	1565.5	1324.1	1480.5	1404.6	1302.9	1222.4	1214.8	1210.2
52.5°	12811.4	11037.8	4642.0	1400.0	1231.5	1374.2	1336.3	1237.6	1173.8	1179.9	1179.9
55°	14888.7	12571.5	4435.5	1280.1	1146.4	1264.9	1290.7	1211.7	1158.6	1182.9	1192.0
57.5°	16795.9	13930.5	3785.6	1187.4	1066.0	1181.4	1274.0	1236.0	1199.6	1298.3	1304.4
60°	18259.7	14733.8	2827.4	1103.9	1006.7	1152.5	1318.0	1328.7	1337.8	1573.1	1605.0
62.5°	18566.4	14466.5	1943.6	1038.6	979.4	1176.8	1398.5	1400.0	1389.4	1553.4	1573.1
65°	17158.8	12776.5	1413.7	1002.2	956.6	1220.9	1466.8	1435.0	1365.1	1489.6	1453.2
67.5°	13626.8	9625.6	1176.8	974.9	923.2	1217.8	1539.7	1466.8	1351.4	1459.3	1400.0
70°	8845.1	5820.3	1047.7	952.1	883.8	1160.1	1582.3	1463.8	1312.0	1357.5	1287.7
72.5°	4315.5	2602.7	961.2	918.7	842.8	1079.6	1580.7	1436.5	1271.0	1267.9	1230.0
75°	1688.5	1192.0	882.2	868.6	772.9	988.5	1538.2	1397.0	1222.4	1173.8	1160.1
77.5°	988.5	850.3	782.0	794.2	689.4	897.4	1476.0	1328.7	1155.6	1097.9	1082.7
80°	719.8	636.2	666.6	686.4	589.2	806.3	1392.4	1245.1	1081.2	1110.0	1088.7
82.5°	461.6	410.0	540.6	560.3	490.5	713.7	1301.3	1157.1	976.4	886.8	865.5
85°	235.4	259.7	402.4	426.7	378.1	586.1	1190.5	1040.2	857.9	738.0	750.1
87.5°	132.1	177.7	256.6	287.0	267.3	451.0	965.8	857.9	700.0	569.4	501.1
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)