

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: P193324

Luminaire Tested: **GLEON-AF-06-LED-E1-T4W-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193324
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-06-LED-E1-T4W-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37507.6 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 382
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

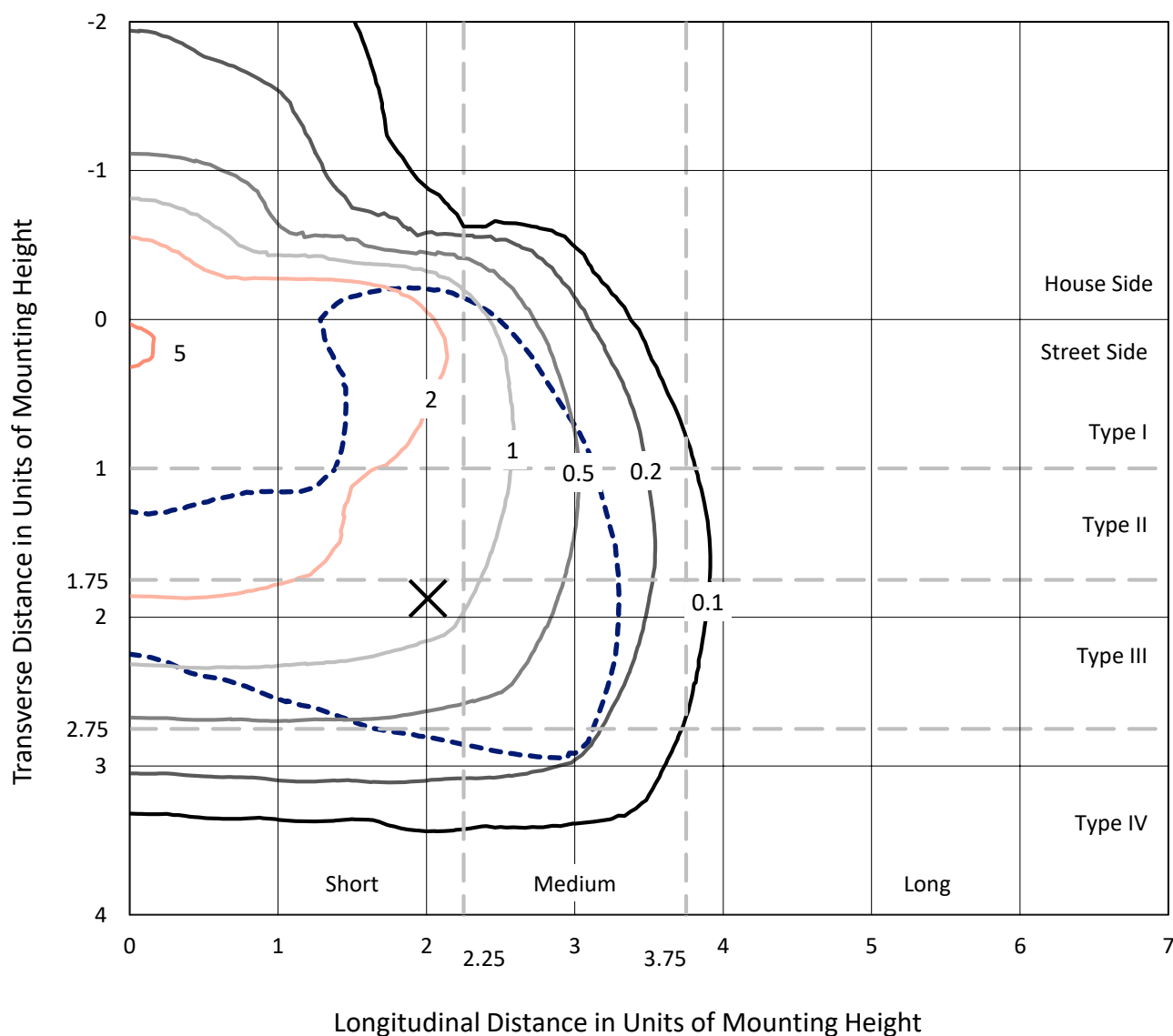


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

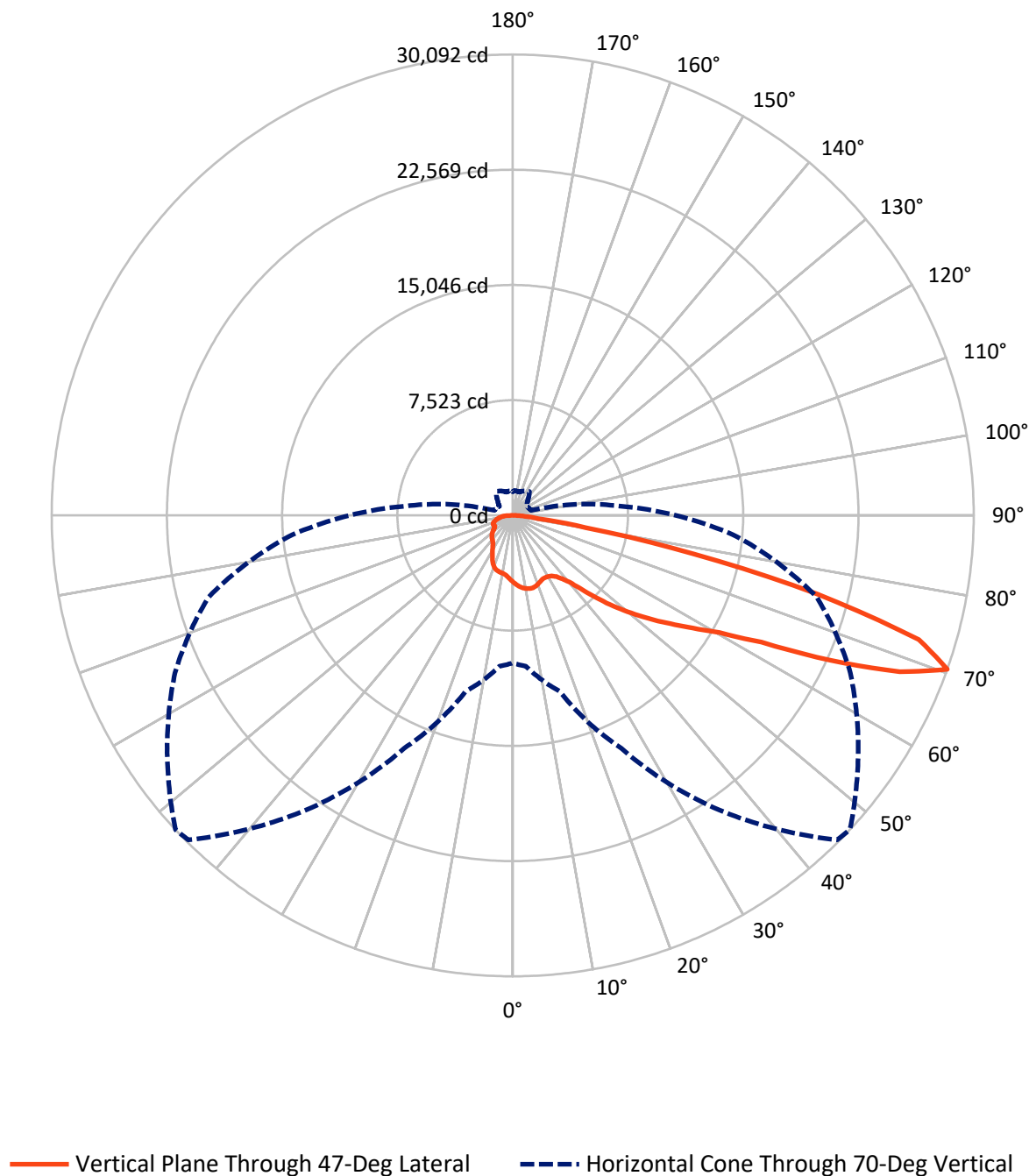


Based on 30 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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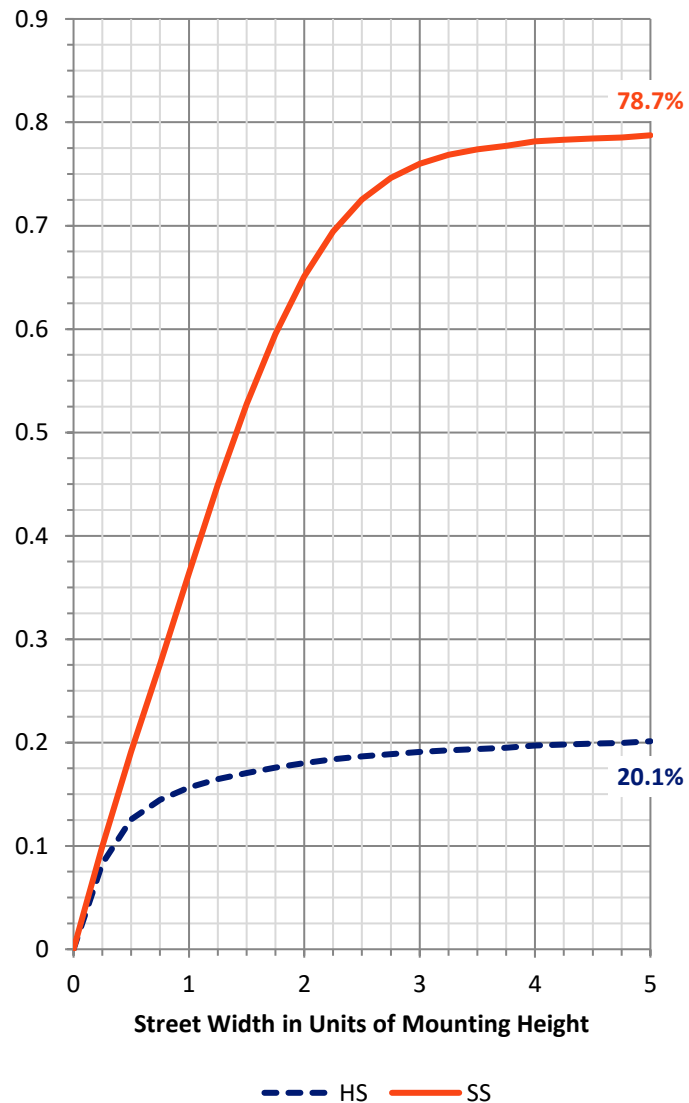
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7824.8	0.0	7824.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	29682.8	0.0	29682.8
	% Fixture	79.1	0.0	79.1
Total	Lumens	37507.6	0.0	37507.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.0	1.1
10°-20°	1223.4	3.3
20°-30°	1806.6	4.8
30°-40°	2625.8	7.0
40°-50°	4725.6	12.6
50°-60°	8186.6	21.8
60°-70°	11684.6	31.2
70°-80°	5998.2	16.0
80°-90°	839.8	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°	37507.6	100.0
0°-180°	37507.6	100.0

Coefficient of Utilization



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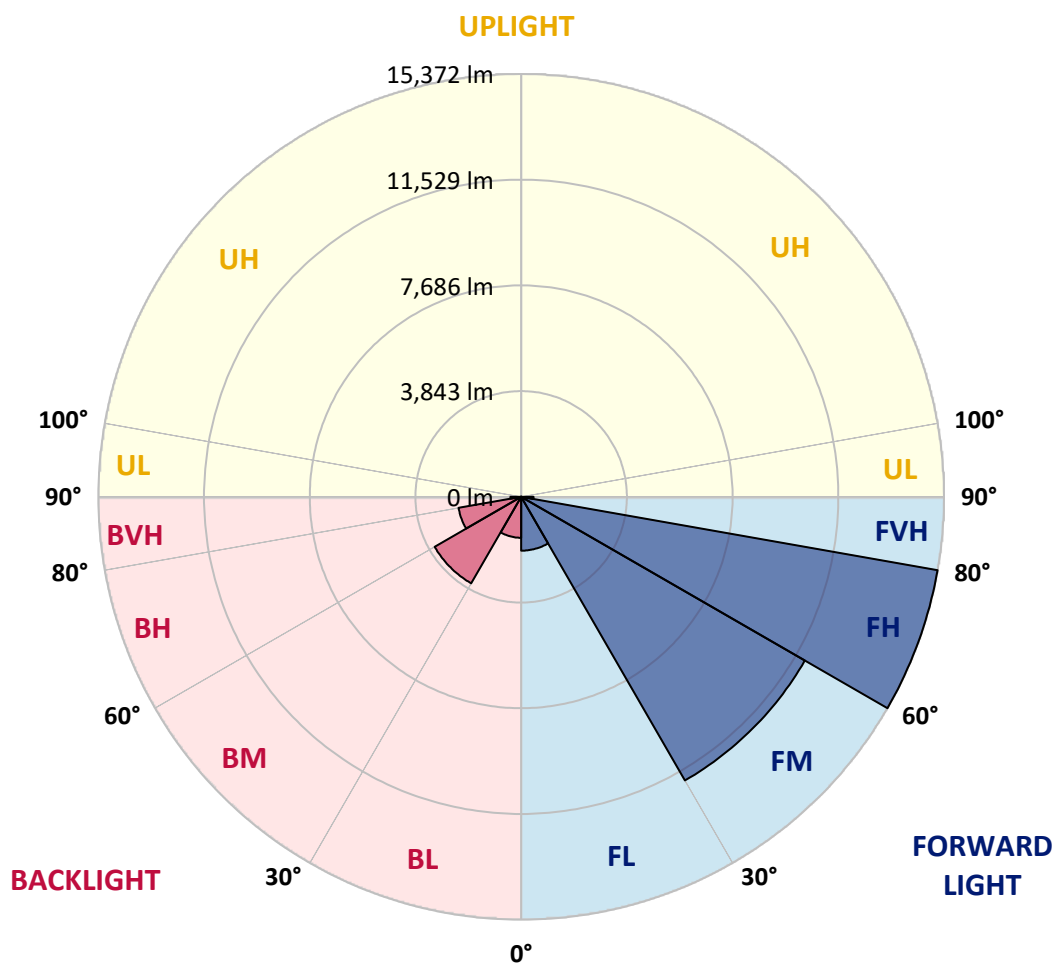
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1957.1	5.2			
FM	(30°-60°)	11906.0	31.7			
FH	(60°-80°)	15371.6	41.0			G5
FVH	(80°-90°)	448.1	1.2			G3/500
BL	(0°-30°)	1489.9	4.0	B3/2500		
BM	(30°-60°)	3632.0	9.7	B3/5000		
BH	(60°-80°)	2311.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	391.7	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°	4352.1	4352.1	4352.1	4352.1	4352.1	4352.1	4352.1	4352.1	4352.1	4352.1	4352.1
2.5°	4607.5	4598.4	4594.8	4587.5	4578.3	4532.7	4523.6	4490.8	4445.1	4397.6	4348.4
5°	4910.4	4908.6	4888.5	4851.9	4793.6	4693.2	4669.5	4589.2	4481.6	4377.6	4273.5
7.5°	5176.8	5160.5	5122.1	5049.1	4946.9	4810.0	4777.3	4665.9	4518.1	4375.8	4235.2
10°	5372.1	5363.0	5279.1	5178.7	5045.5	4894.0	4855.7	4731.6	4569.2	4388.5	4213.4
12.5°	5483.4	5465.1	5368.5	5248.0	5089.3	4941.5	4903.1	4777.3	4594.8	4388.5	4182.3
15°	5476.1	5463.3	5366.6	5235.2	5074.6	4945.1	4910.4	4784.6	4589.2	4370.3	4142.2
17.5°	5330.1	5335.5	5253.5	5123.9	4992.5	4894.0	4863.0	4746.2	4552.8	4333.8	4094.7
20°	5074.6	5100.2	5045.5	4930.6	4857.5	4790.0	4769.9	4671.4	4496.2	4280.9	4043.6
22.5°	4819.2	4842.9	4821.1	4724.3	4713.3	4673.2	4662.3	4591.1	4447.0	4248.0	4012.6
25°	4631.3	4653.2	4649.5	4565.5	4598.4	4596.5	4587.5	4552.8	4436.0	4248.0	4018.1
27.5°	4580.1	4587.5	4580.1	4503.5	4549.1	4585.6	4578.3	4572.8	4468.8	4301.0	4087.5
30°	4755.3	4744.4	4687.8	4532.7	4574.6	4625.8	4618.5	4622.1	4567.4	4439.6	4242.5
32.5°	5454.2	5404.9	5226.1	4790.0	4678.7	4706.1	4709.7	4769.9	4779.0	4653.2	4483.5
35°	6499.9	6445.1	6213.3	5479.8	5001.7	4906.8	4906.8	4998.1	5052.8	4959.8	4857.5
37.5°	7607.4	7547.2	7423.1	6435.9	5680.5	5255.3	5246.2	5310.0	5388.5	5410.4	5435.9
40°	8866.5	8802.7	8837.3	7508.9	6627.5	5859.3	5729.8	5684.1	5895.8	6036.3	6240.7
42.5°	10244.1	10214.9	10227.8	8704.1	7705.9	6762.6	6578.3	6342.8	6598.2	6848.4	7277.1
45°	11519.8	11545.2	11532.5	9983.2	8906.6	7864.7	7669.5	7213.3	7463.3	7892.2	8590.9
47.5°	12636.5	12530.6	12694.9	11381.0	10251.5	9098.2	8857.4	8246.2	8499.8	9028.8	10211.4
50°	13992.3	13977.6	13736.8	13245.9	11877.3	10337.2	10021.6	9313.6	9707.6	10443.1	12253.2
52.5°	15417.3	15152.8	14932.0	14696.6	13601.8	11607.2	11220.5	10377.5	11127.4	12052.5	14742.3
55°	15709.4	15590.7	15864.5	16260.4	15264.1	12926.6	12475.9	11711.3	12725.9	13891.9	17612.6
57.5°	16333.3	16331.6	16897.3	17603.5	16975.7	14326.2	13871.8	13322.5	14523.3	15999.5	20660.0
60°	16754.9	16873.6	17924.6	19294.9	18656.3	15942.9	15525.0	15182.0	16567.0	18355.2	23499.3
62.5°	16975.7	17136.3	18570.6	19981.2	21032.2	18634.5	18216.6	17722.1	19271.2	20939.1	25159.7
65°	16057.9	16373.6	18470.2	20574.2	23112.3	22997.4	22809.5	21940.9	22652.6	22981.0	24559.4
67.5°	13517.8	13840.8	16282.4	20021.2	24597.7	27205.3	27245.4	25761.9	24732.8	23156.2	20649.0
70°	9631.1	9884.6	11904.8	16785.9	23466.3	29955.3	30092.0	27522.9	24318.6	20535.9	14426.6
72.5°	4572.8	4727.9	6640.3	10924.9	18621.7	27446.3	27710.8	25274.7	20678.2	15203.9	7870.2
75°	1680.6	1728.1	2244.4	4647.7	10800.8	20240.3	20552.2	18118.0	13707.5	7569.2	2998.1
77.5°	1007.3	1038.3	1259.1	1961.6	4248.0	11569.0	12030.6	9853.6	5990.6	2817.5	1474.5
80°	704.4	726.2	903.2	1220.8	2007.2	4408.6	4819.2	4021.8	2386.8	1782.8	1072.9
82.5°	476.3	487.2	635.1	824.8	1333.9	1574.8	1698.9	1788.2	1609.4	1326.6	680.6
85°	312.1	323.0	430.6	543.8	848.5	813.9	832.1	1052.9	1175.2	901.4	377.7
87.5°	178.8	186.2	259.2	290.1	416.1	344.9	348.5	554.7	751.8	607.6	229.9
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°	4352.1	4352.1	4352.1	4352.1	4352.1	4352.1	4352.1	4352.1	4352.1	4352.1	4352.1
2.5°	4335.6	4311.9	4259.0	4226.1	4195.1	4187.8	4175.1	4173.2	4171.4	4171.4	4165.9
5°	4238.9	4198.8	4116.7	4071.0	4032.8	4029.1	4027.3	4036.4	4040.0	4043.6	4038.2
7.5°	4176.9	4122.2	4019.9	3954.2	3908.6	3897.8	3916.0	3957.9	3985.2	3996.2	3990.7
10°	4138.5	4071.0	3952.5	3881.2	3842.9	3837.5	3861.2	3910.5	3966.9	3988.9	3987.1
12.5°	4094.7	4018.1	3892.3	3817.4	3795.4	3806.5	3837.5	3883.1	3941.5	3976.2	3978.0
15°	4051.0	3961.5	3831.9	3766.2	3757.2	3771.7	3801.0	3835.6	3881.2	3916.0	3919.5
17.5°	3998.1	3905.0	3775.5	3707.9	3700.6	3707.9	3709.8	3728.0	3757.2	3789.9	3799.2
20°	3941.5	3846.6	3711.5	3644.1	3611.2	3581.9	3549.2	3552.8	3562.0	3594.7	3602.1
22.5°	3901.3	3806.5	3662.3	3569.3	3481.6	3394.0	3328.4	3319.2	3322.9	3350.2	3359.4
25°	3905.0	3804.6	3649.5	3488.9	3297.3	3156.8	3069.2	3054.7	3052.8	3072.9	3085.7
27.5°	3976.2	3875.8	3697.0	3406.8	3096.6	2888.6	2795.5	2784.6	2769.9	2775.5	2790.1
30°	4134.9	4041.8	3811.9	3322.9	2879.4	2625.8	2529.2	2518.2	2498.1	2488.9	2500.0
32.5°	4394.0	4317.4	3979.8	3242.6	2662.3	2401.4	2302.8	2279.1	2266.4	2255.4	2264.5
35°	4824.7	4791.8	4204.3	3155.0	2470.7	2228.1	2138.6	2102.1	2083.9	2103.9	2118.5
37.5°	5499.8	5518.0	4497.9	3018.2	2323.0	2113.1	2038.2	1996.2	1969.0	1985.4	2001.7
40°	6456.0	6468.8	4822.8	2824.7	2195.2	2045.6	1965.2	1926.9	1888.6	1859.5	1857.6
42.5°	7711.4	7581.8	5142.2	2614.9	2047.4	2003.6	1914.2	1866.7	1808.4	1728.1	1711.6
45°	9200.4	8746.1	5384.9	2373.9	1881.3	1952.5	1857.6	1792.0	1700.7	1613.1	1603.9
47.5°	10915.6	9996.0	5503.5	2124.0	1726.2	1877.7	1788.2	1684.2	1569.3	1525.5	1520.1
50°	13010.5	11479.6	5560.1	1881.3	1591.2	1779.2	1687.9	1565.6	1468.9	1459.8	1454.4
52.5°	15395.5	13264.2	5578.3	1682.4	1479.9	1651.5	1605.8	1487.1	1410.5	1417.8	1417.8
55°	17891.8	15107.2	5330.1	1538.3	1377.6	1520.1	1551.1	1456.2	1392.3	1421.5	1432.4
57.5°	20183.7	16740.3	4549.1	1426.9	1280.9	1419.8	1530.9	1485.4	1441.5	1560.2	1567.5
60°	21942.7	17705.7	3397.8	1326.6	1209.8	1385.0	1583.9	1596.8	1607.6	1890.4	1928.8
62.5°	22311.3	17384.5	2335.8	1248.2	1176.9	1414.2	1680.6	1682.4	1669.7	1866.7	1890.4
65°	20619.7	15353.5	1698.9	1204.4	1149.6	1467.2	1762.7	1724.4	1640.4	1790.1	1746.3
67.5°	16375.3	11567.2	1414.2	1171.5	1109.4	1463.4	1850.3	1762.7	1624.0	1753.6	1682.4
70°	10629.2	6994.3	1259.1	1144.2	1062.0	1394.1	1901.4	1759.1	1576.6	1631.4	1547.4
72.5°	5186.0	3127.6	1155.1	1103.9	1012.8	1297.5	1899.6	1726.2	1527.3	1523.6	1478.1
75°	2029.2	1432.4	1060.2	1043.8	928.8	1187.8	1848.4	1678.8	1468.9	1410.5	1394.1
77.5°	1187.8	1021.9	939.7	954.4	828.4	1078.4	1773.8	1596.8	1388.6	1319.3	1301.1
80°	864.9	764.6	801.1	824.8	708.0	968.9	1673.3	1496.3	1299.2	1333.9	1308.4
82.5°	554.7	492.6	649.6	673.4	589.4	857.6	1563.8	1390.5	1173.3	1065.6	1040.1
85°	282.9	312.1	483.6	512.8	454.4	704.4	1430.6	1249.9	1031.0	886.8	901.4
87.5°	158.8	213.5	308.4	344.9	321.1	541.9	1160.6	1031.0	841.2	684.3	602.1
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)