

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: P193314

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193314
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34191.6 lumens
Efficiency: N/A
Efficacy: 102.7 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): 333
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



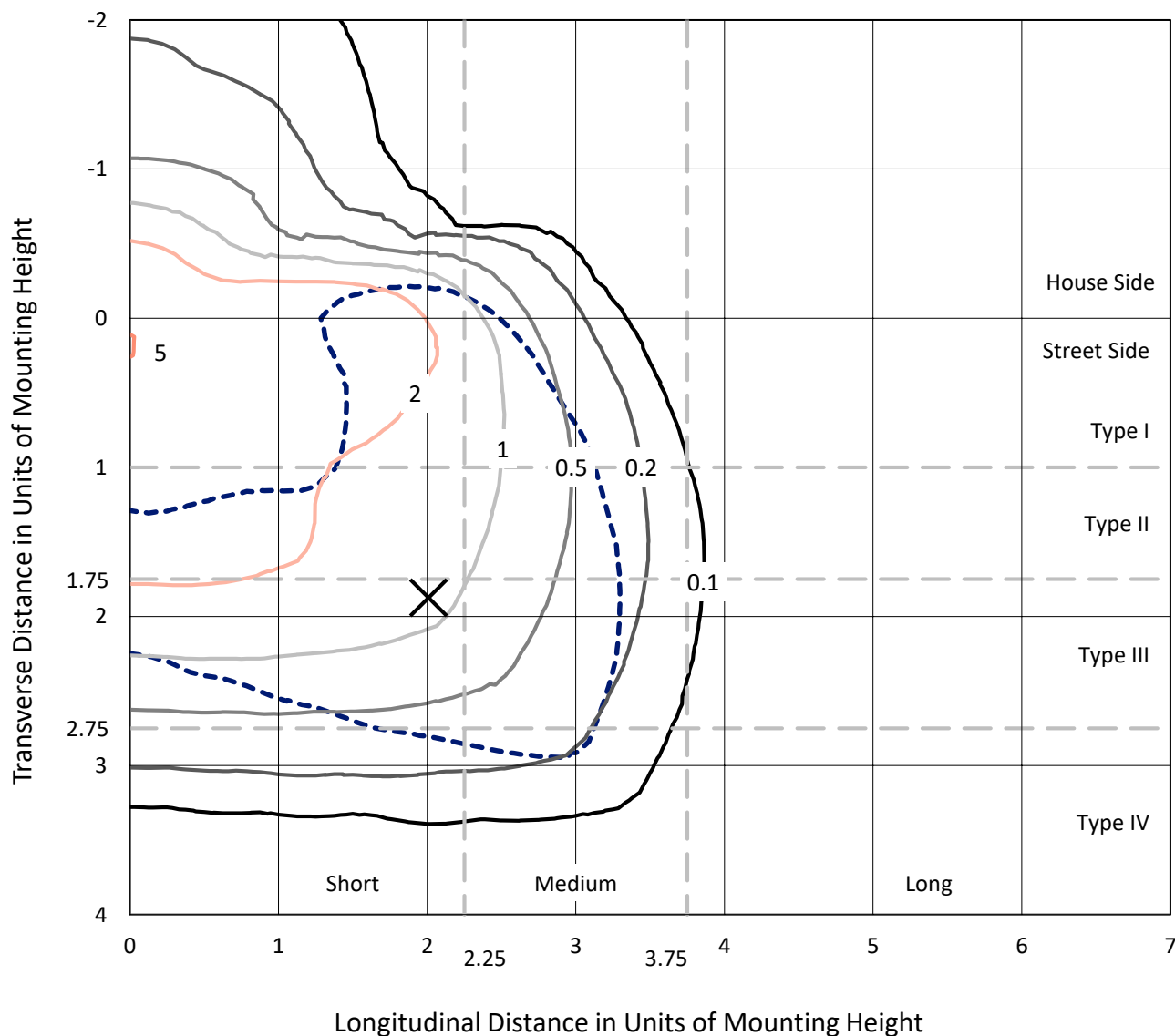
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

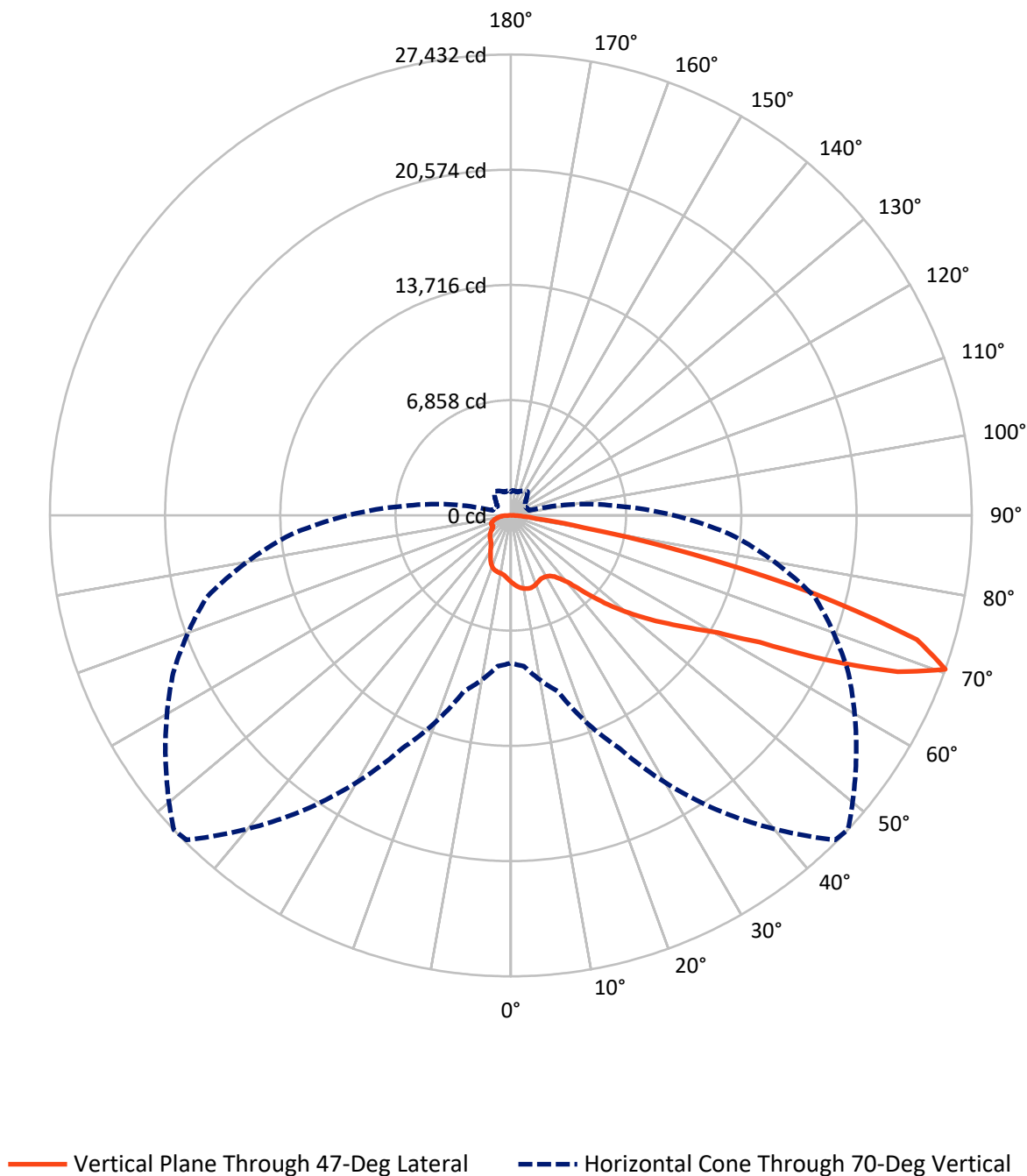


Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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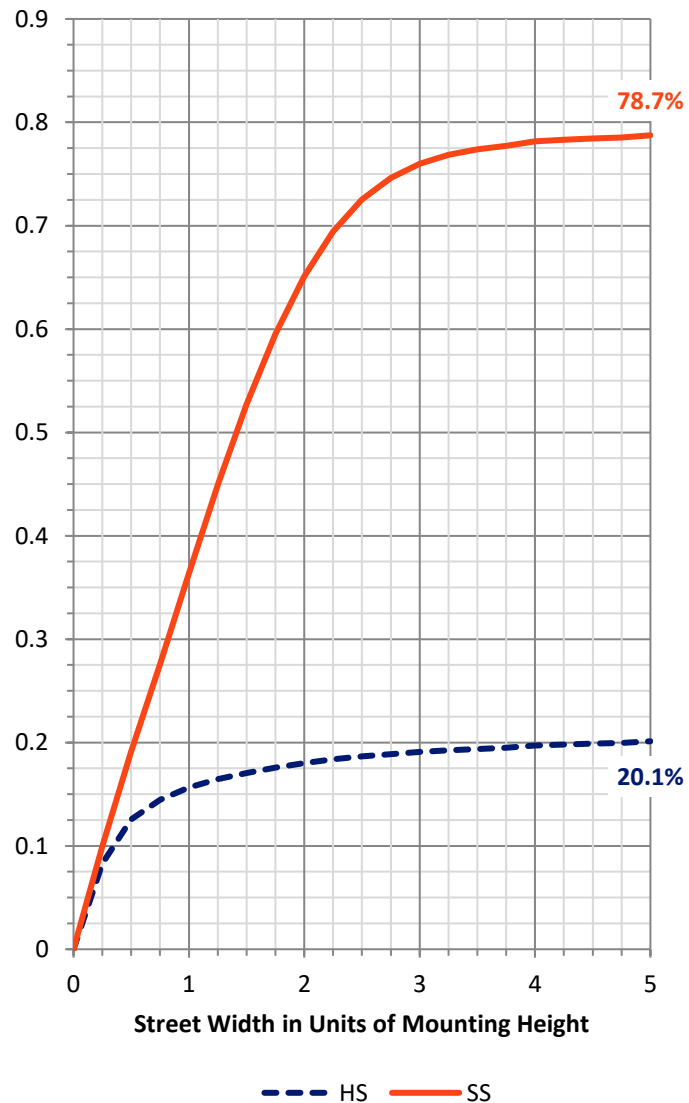
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7133.1	0.0	7133.1
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	27058.6	0.0	27058.6
	% Fixture	79.1	0.0	79.1
Total	Lumens	34191.6	0.0	34191.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.1	1.1
10°-20°	1115.2	3.3
20°-30°	1646.9	4.8
30°-40°	2393.7	7.0
40°-50°	4307.8	12.6
50°-60°	7462.8	21.8
60°-70°	10651.6	31.2
70°-80°	5467.9	16.0
80°-90°	765.5	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°	34191.6	100.0
0°-180°	34191.6	100.0

Coefficient of Utilization



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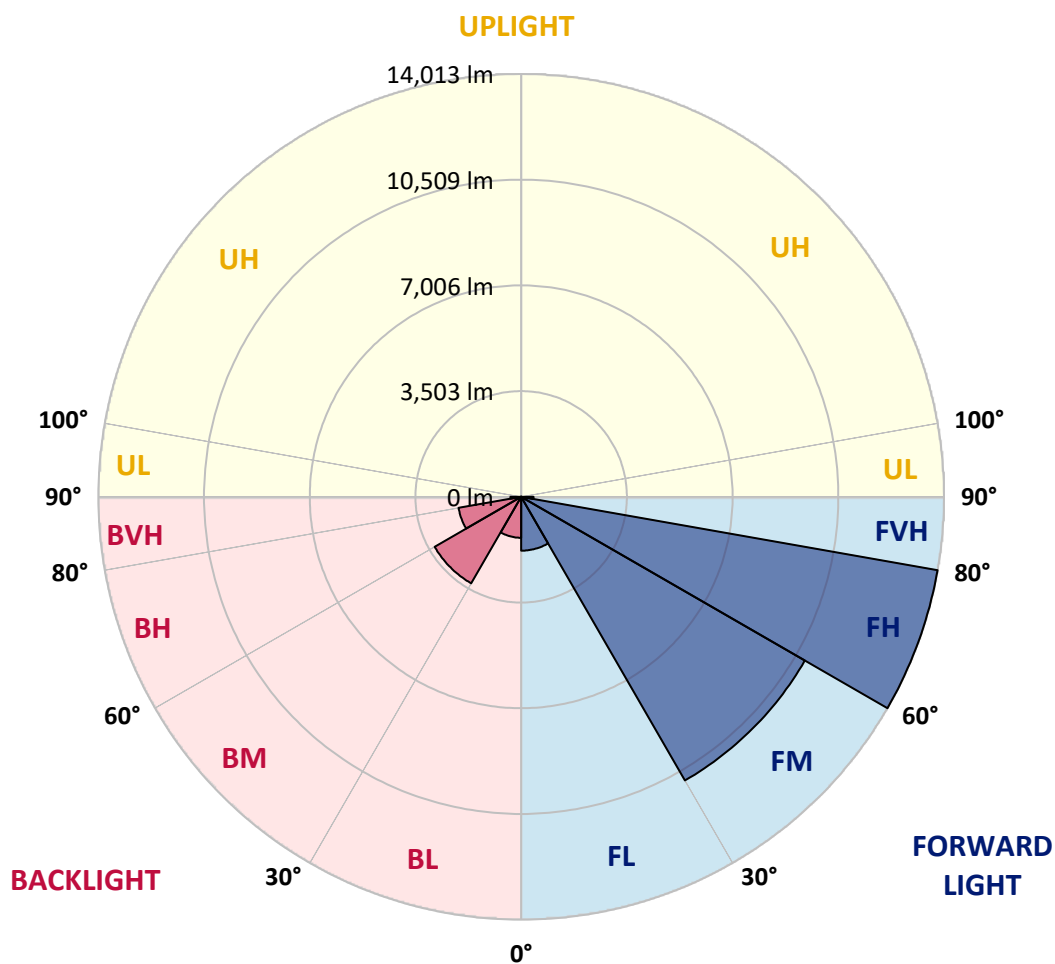
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1784.0	5.2			
FM	(30°-60°)	10853.4	31.7			
FH	(60°-80°)	14012.6	41.0			G5
FVH	(80°-90°)	408.5	1.2			G3/500
BL	(0°-30°)	1358.2	4.0	B3/2500		
BM	(30°-60°)	3310.9	9.7	B3/5000		
BH	(60°-80°)	2106.9	6.2	B3/2500		G3/2500
BVH	(80°-90°)	357.0	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°	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3
2.5°	4200.2	4191.8	4188.6	4181.9	4173.6	4131.9	4123.7	4093.7	4052.1	4008.8	3963.9
5°	4476.4	4474.6	4456.3	4423.1	4369.9	4278.4	4256.7	4183.5	4085.4	3990.5	3895.7
7.5°	4719.1	4704.1	4669.3	4602.8	4509.5	4384.8	4354.8	4253.4	4118.6	3988.9	3860.7
10°	4897.1	4888.8	4812.4	4720.9	4599.4	4461.4	4426.4	4313.3	4165.3	4000.5	3840.9
12.5°	4998.6	4982.0	4893.8	4784.0	4639.3	4504.5	4469.7	4354.8	4188.6	4000.5	3812.6
15°	4991.9	4980.4	4892.2	4772.5	4626.0	4507.9	4476.4	4361.5	4183.5	3983.9	3776.0
17.5°	4858.9	4863.9	4789.1	4671.0	4551.2	4461.4	4433.0	4326.5	4150.2	3950.7	3732.8
20°	4626.0	4649.3	4599.4	4494.6	4428.1	4366.5	4348.2	4258.4	4098.8	3902.4	3686.2
22.5°	4393.1	4414.7	4394.9	4306.7	4296.6	4260.0	4250.0	4185.1	4053.7	3872.4	3657.9
25°	4221.8	4241.8	4238.3	4161.9	4191.8	4190.2	4181.9	4150.2	4043.8	3872.4	3662.9
27.5°	4175.3	4181.9	4175.3	4105.3	4146.9	4180.3	4173.6	4168.6	4073.7	3920.7	3726.1
30°	4334.9	4324.9	4273.3	4131.9	4170.2	4216.8	4210.2	4213.5	4163.6	4047.2	3867.4
32.5°	4972.0	4927.0	4764.0	4366.5	4265.1	4289.9	4293.4	4348.2	4356.5	4241.8	4087.1
35°	5925.1	5875.2	5664.0	4995.4	4559.5	4473.0	4473.0	4556.1	4606.1	4521.2	4428.1
37.5°	6934.9	6879.9	6766.9	5866.9	5178.3	4790.7	4782.4	4840.6	4912.1	4932.1	4955.4
40°	8082.7	8024.4	8056.0	6845.0	6041.6	5341.2	5223.1	5181.6	5374.6	5502.7	5688.9
42.5°	9338.5	9311.9	9323.5	7934.6	7024.8	6164.7	5996.7	5782.1	6014.9	6242.8	6633.7
45°	10501.2	10524.5	10512.9	9100.6	8119.2	7169.4	6991.4	6575.6	6803.5	7194.4	7831.4
47.5°	11519.3	11422.8	11572.5	10374.8	9345.2	8293.9	8074.3	7517.0	7748.2	8230.7	9308.6
50°	12755.3	12742.0	12522.3	12074.9	10827.3	9423.4	9135.6	8490.2	8849.5	9519.9	11170.0
52.5°	14054.3	13813.1	13611.8	13397.3	12399.3	10581.1	10228.5	9460.0	10143.6	10987.0	13438.9
55°	14320.5	14212.3	14461.9	14822.8	13914.6	11783.7	11372.9	10675.9	11600.8	12663.7	16055.4
57.5°	14889.5	14887.7	15403.4	16047.1	15474.9	13059.6	12645.4	12144.7	13239.3	14585.0	18833.3
60°	15273.7	15381.7	16339.9	17589.1	17007.0	14533.4	14152.5	13839.8	15102.4	16732.5	21421.7
62.5°	15474.9	15621.4	16928.7	18214.6	19172.7	16987.0	16606.1	16155.3	17567.5	19087.9	22935.3
65°	14638.2	14926.0	16837.3	18755.2	21069.0	20964.2	20792.9	20001.1	20649.9	20949.3	22388.2
67.5°	12322.7	12617.1	14842.9	18251.2	22423.1	24800.1	24836.7	23484.4	22546.2	21109.0	18823.4
70°	8779.6	9010.8	10852.2	15302.0	21391.8	27306.9	27431.7	25089.5	22168.6	18720.3	13151.1
72.5°	4168.6	4309.9	6053.2	9959.0	16975.4	25019.8	25260.8	23040.3	18850.1	13859.7	7174.4
75°	1532.1	1575.3	2046.0	4236.7	9845.9	18450.8	18735.2	16516.2	12495.8	6899.9	2733.0
77.5°	918.3	946.5	1147.8	1788.1	3872.4	10546.1	10967.0	8982.5	5461.1	2568.3	1344.1
80°	642.1	662.0	823.4	1112.8	1829.8	4018.9	4393.1	3666.2	2175.8	1625.1	978.1
82.5°	434.2	444.1	578.8	751.9	1215.9	1435.5	1548.6	1630.1	1467.2	1209.3	620.5
85°	284.4	294.5	392.6	495.7	773.4	741.9	758.5	959.9	1071.3	821.7	344.3
87.5°	163.1	169.7	236.2	264.5	379.2	314.3	317.7	505.7	685.4	554.0	209.6
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°	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3
2.5°	3952.4	3930.7	3882.4	3852.5	3824.2	3817.6	3805.9	3804.3	3802.7	3802.7	3797.7
5°	3864.2	3827.6	3752.7	3711.1	3676.1	3672.9	3671.2	3679.6	3682.8	3686.2	3681.2
7.5°	3807.5	3757.7	3664.5	3604.7	3563.1	3553.1	3569.7	3608.0	3633.0	3642.9	3637.9
10°	3772.6	3711.1	3603.1	3538.2	3503.2	3498.2	3519.8	3564.7	3616.3	3636.2	3634.6
12.5°	3732.8	3662.9	3548.0	3479.9	3459.9	3470.0	3498.2	3539.8	3593.0	3624.6	3626.4
15°	3692.9	3611.3	3493.2	3433.4	3425.1	3438.3	3464.9	3496.6	3538.2	3569.7	3573.1
17.5°	3644.6	3559.7	3441.6	3380.1	3373.5	3380.1	3381.8	3398.4	3425.1	3455.0	3463.3
20°	3593.0	3506.5	3383.4	3321.9	3292.0	3265.3	3235.3	3238.7	3247.0	3277.0	3283.6
22.5°	3556.4	3470.0	3338.5	3253.6	3173.9	3094.0	3034.1	3025.8	3029.1	3054.1	3062.4
25°	3559.7	3468.2	3326.8	3180.5	3005.8	2877.8	2797.9	2784.6	2783.0	2801.2	2812.9
27.5°	3624.6	3533.1	3370.1	3105.5	2822.8	2633.2	2548.4	2538.4	2525.1	2530.1	2543.3
30°	3769.3	3684.6	3474.9	3029.1	2624.9	2393.7	2305.5	2295.5	2277.3	2268.9	2278.9
32.5°	4005.6	3935.7	3628.0	2955.9	2426.9	2189.1	2099.3	2077.7	2066.0	2056.0	2064.4
35°	4398.1	4368.1	3832.6	2876.0	2252.3	2031.0	1949.5	1916.3	1899.7	1917.9	1931.2
37.5°	5013.6	5030.2	4100.4	2751.3	2117.6	1926.2	1858.1	1819.8	1794.8	1809.8	1824.7
40°	5885.2	5896.8	4396.5	2575.0	2001.1	1864.7	1791.6	1756.6	1721.7	1695.0	1693.4
42.5°	7029.6	6911.5	4687.6	2383.7	1866.3	1826.5	1745.0	1701.7	1648.5	1575.3	1560.3
45°	8387.1	7972.8	4908.8	2164.1	1715.1	1779.9	1693.4	1633.5	1550.3	1470.5	1462.1
47.5°	9950.7	9112.3	5016.9	1936.2	1573.7	1711.6	1630.1	1535.3	1430.5	1390.7	1385.6
50°	11860.3	10464.7	5068.4	1715.1	1450.5	1621.9	1538.7	1427.3	1339.1	1330.8	1325.8
52.5°	14034.4	12091.5	5085.2	1533.7	1349.1	1505.4	1463.8	1355.7	1285.9	1292.5	1292.5
55°	16310.0	13771.6	4858.9	1402.3	1255.9	1385.6	1414.0	1327.4	1269.1	1295.9	1305.7
57.5°	18399.3	15260.4	4146.9	1300.8	1167.8	1294.1	1395.6	1354.0	1314.1	1422.2	1428.9
60°	20002.7	16140.4	3097.3	1209.3	1102.9	1262.6	1443.9	1455.6	1465.5	1723.3	1758.2
62.5°	20338.8	15847.5	2129.3	1137.8	1072.9	1289.1	1532.1	1533.7	1522.1	1701.7	1723.3
65°	18796.9	13996.1	1548.6	1097.8	1048.1	1337.5	1606.8	1571.9	1495.4	1631.8	1591.9
67.5°	14927.6	10544.5	1289.1	1067.9	1011.4	1334.0	1686.8	1606.8	1480.5	1598.6	1533.7
70°	9689.5	6376.0	1147.8	1043.0	968.1	1270.9	1733.3	1603.6	1437.2	1487.1	1410.6
72.5°	4727.4	2851.1	1052.9	1006.4	923.2	1182.7	1731.6	1573.7	1392.3	1389.0	1347.3
75°	1849.8	1305.7	966.5	951.4	846.6	1082.9	1685.1	1530.4	1339.1	1285.9	1270.9
77.5°	1082.9	931.6	856.7	869.9	755.2	983.2	1616.8	1455.6	1265.9	1202.6	1186.0
80°	788.5	697.0	730.3	751.9	645.4	883.3	1525.4	1364.0	1184.4	1215.9	1192.7
82.5°	505.7	449.2	592.1	613.8	537.3	781.9	1425.7	1267.5	1069.5	971.5	948.2
85°	257.9	284.4	440.9	467.4	414.2	642.1	1304.1	1139.5	939.8	808.4	821.7
87.5°	144.8	194.6	281.2	314.3	292.9	494.1	1057.9	939.8	766.9	623.8	548.9
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)