

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: P302938

Luminaire Tested: **GLNA-AF-10-LED-E1-T4W-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-10-LED-E1-T4W-8030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31345.4 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 323
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



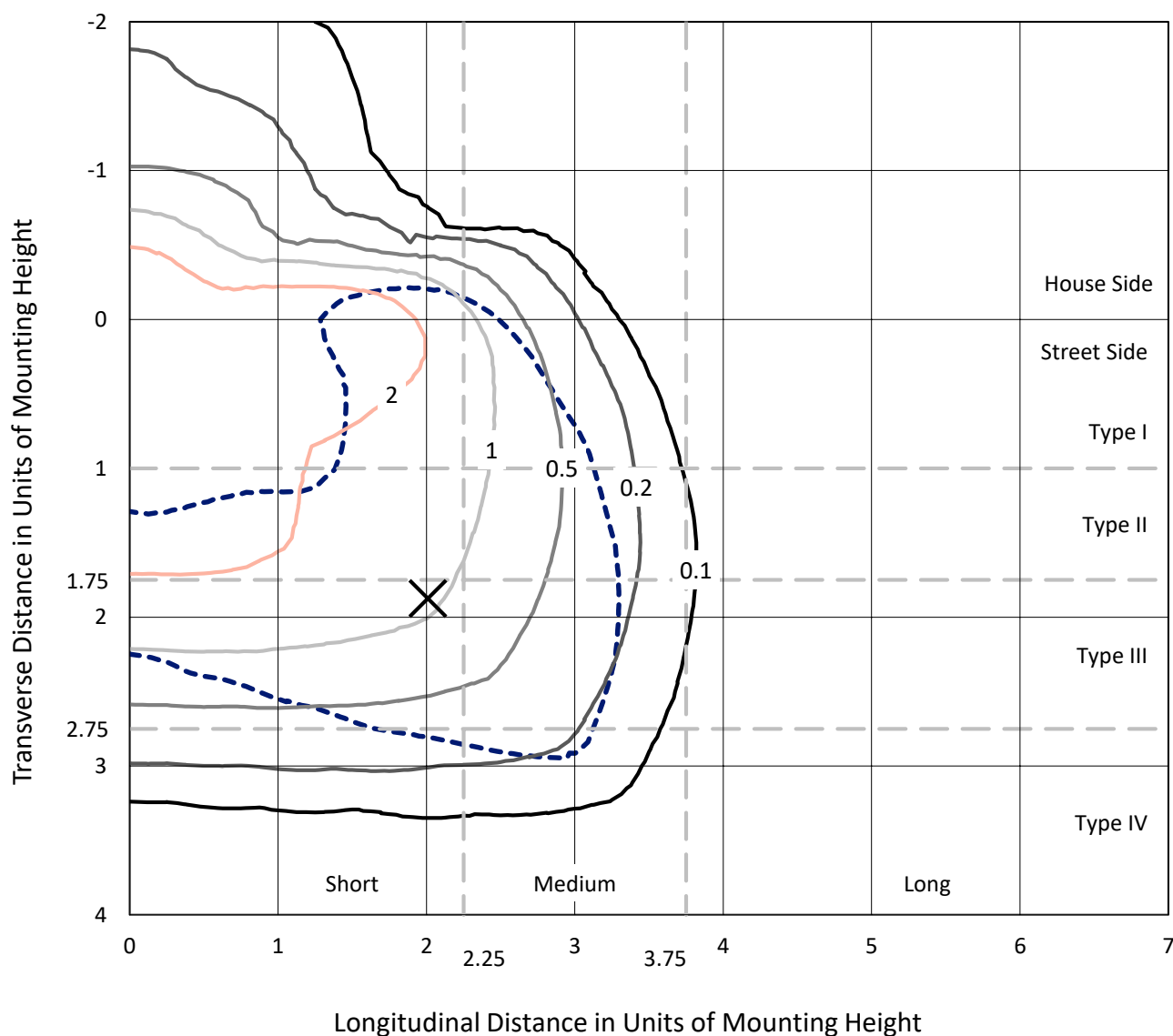
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

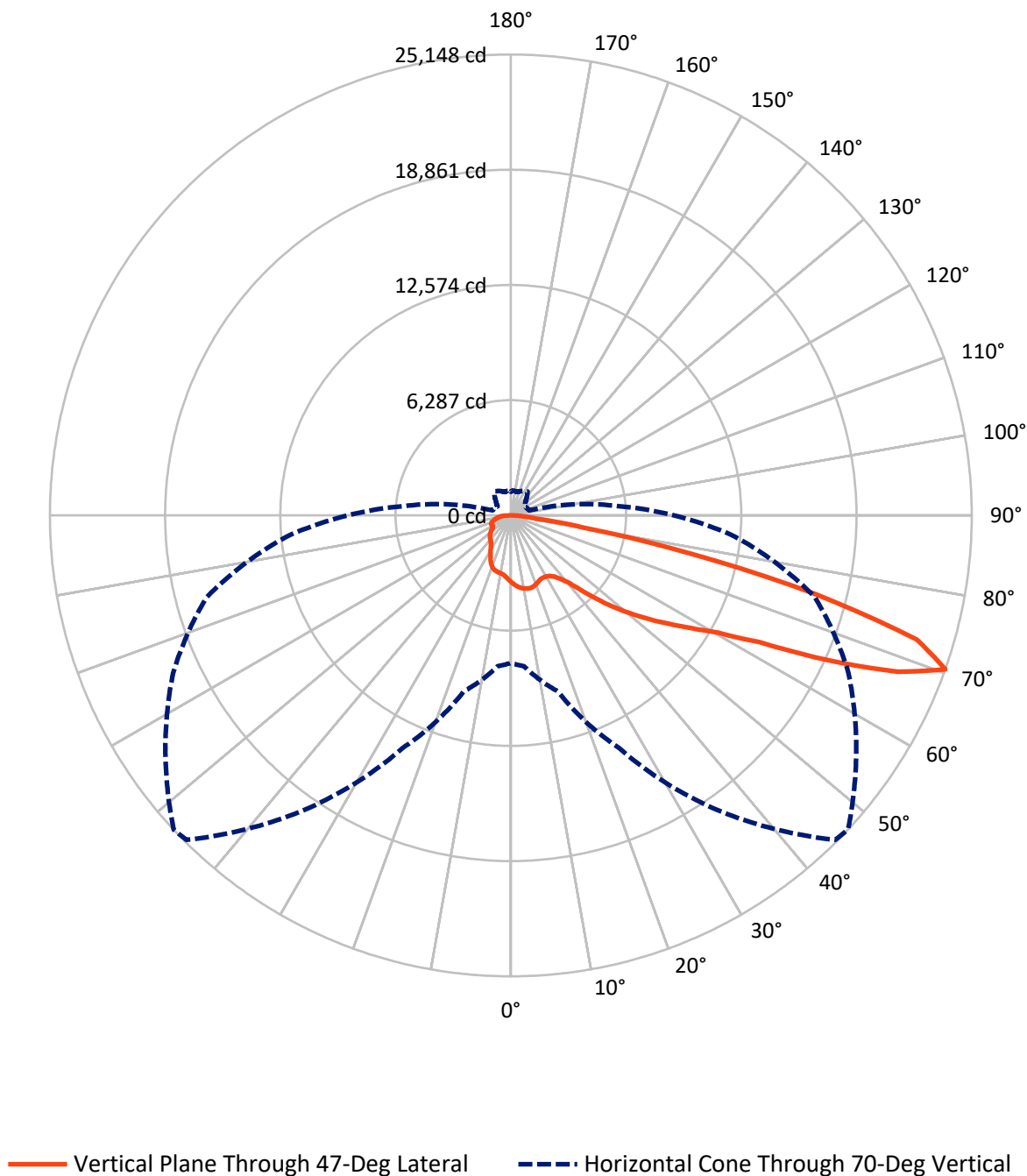


Based on 30 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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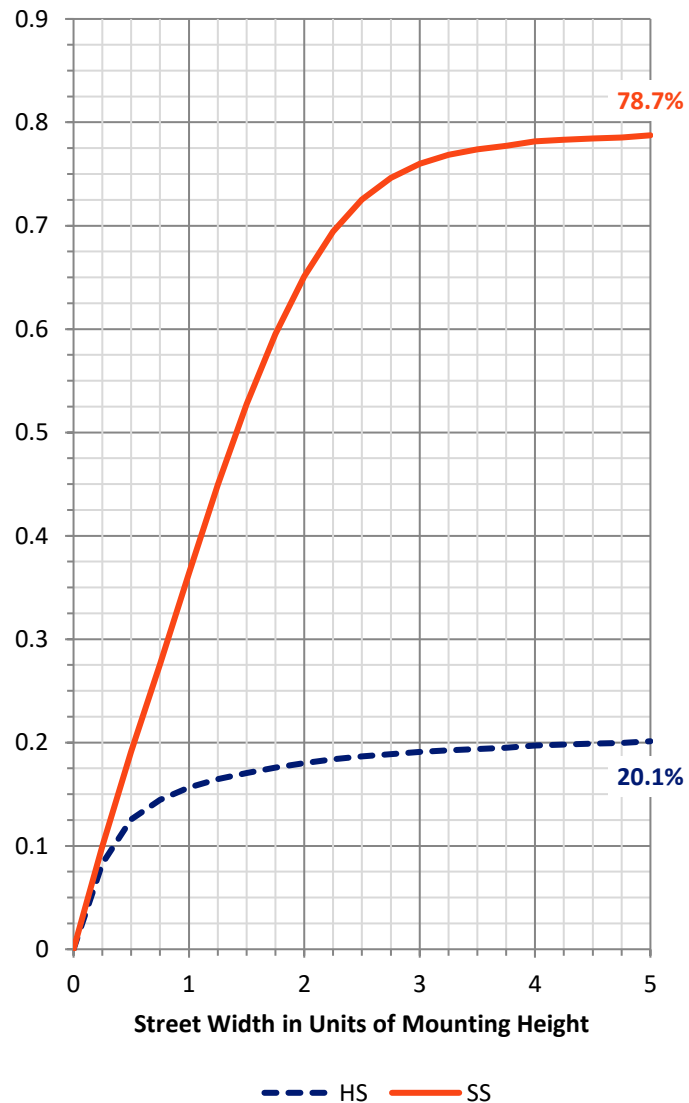
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6539.3	0.0	6539.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	24806.1	0.0	24806.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	31345.4	0.0	31345.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.5	1.1
10°-20°	1022.4	3.3
20°-30°	1509.8	4.8
30°-40°	2194.4	7.0
40°-50°	3949.2	12.6
50°-60°	6841.6	21.8
60°-70°	9765.0	31.2
70°-80°	5012.8	16.0
80°-90°	701.8	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°	31345.4	100.0
0°-180°	31345.4	100.0

Coefficient of Utilization



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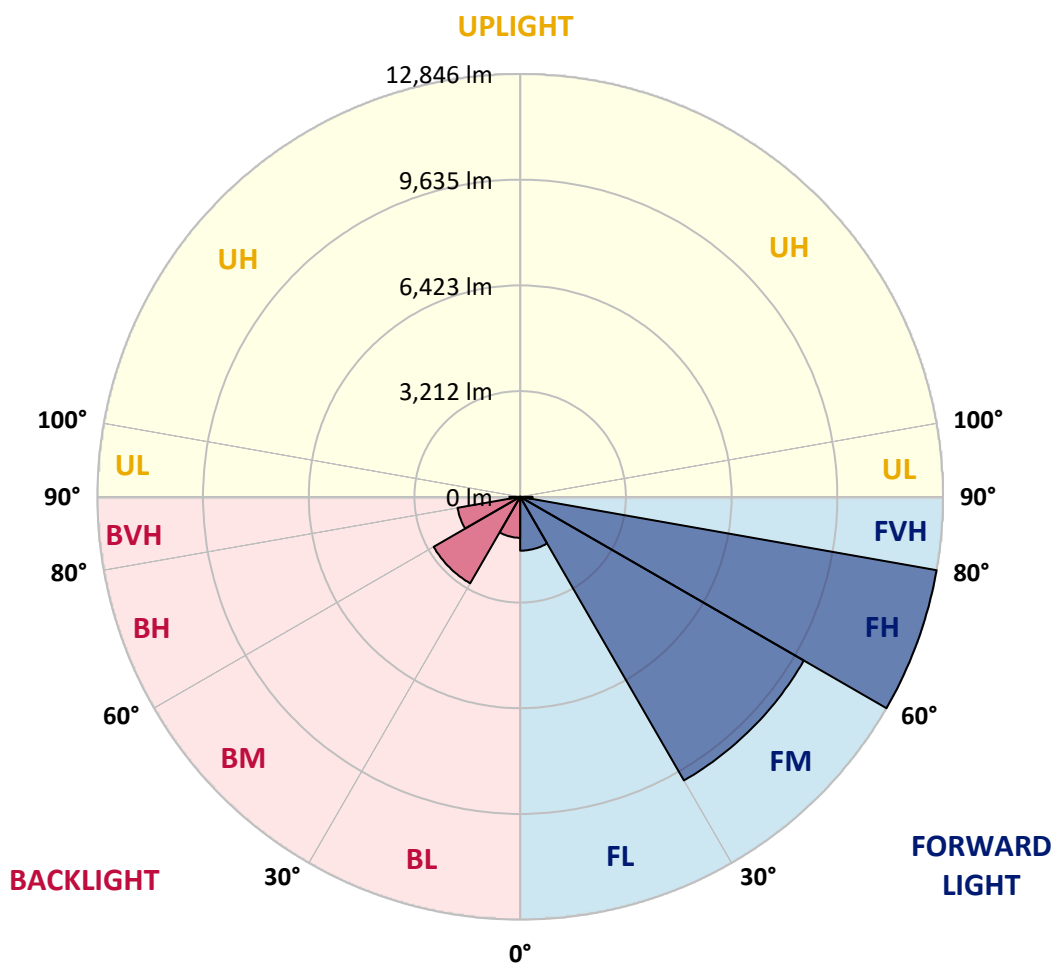
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1635.5	5.2			
FM	(30°-60°)	9949.9	31.7			
FH	(60°-80°)	12846.2	41.0			G5
FVH	(80°-90°)	374.5	1.2			G3/500
BL	(0°-30°)	1245.1	4.0	B3/2500		
BM	(30°-60°)	3035.3	9.7	B3/5000		
BH	(60°-80°)	1931.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	327.3	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°	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0
2.5°	3850.7	3843.1	3840.1	3834.0	3826.4	3787.9	3780.3	3752.9	3715.0	3674.9	3633.9
5°	4103.9	4102.4	4085.2	4054.8	4006.2	3922.1	3902.4	3835.5	3745.3	3658.2	3571.6
7.5°	4326.3	4312.6	4280.7	4219.4	4134.3	4019.9	3992.5	3899.3	3775.7	3656.7	3539.2
10°	4489.4	4481.8	4411.9	4327.8	4216.4	4089.7	4057.8	3954.0	3818.3	3667.4	3521.0
12.5°	4582.5	4567.4	4486.3	4386.0	4253.3	4129.8	4097.3	3992.5	3840.1	3667.4	3495.2
15°	4576.5	4565.8	4484.8	4374.9	4241.2	4132.8	4103.9	3998.6	3835.5	3652.2	3461.7
17.5°	4454.4	4459.0	4390.6	4282.2	4172.3	4089.7	4063.9	3966.7	3804.6	3621.8	3422.2
20°	4241.2	4262.5	4216.4	4120.6	4059.4	4003.1	3986.4	3903.9	3757.5	3577.7	3379.2
22.5°	4027.5	4047.2	4029.0	3947.9	3938.8	3905.4	3896.3	3837.0	3716.5	3550.4	3353.3
25°	3870.4	3888.7	3885.6	3815.2	3843.1	3841.6	3834.0	3804.6	3707.4	3550.4	3357.9
27.5°	3827.9	3834.0	3827.9	3763.6	3801.6	3832.5	3826.4	3821.3	3734.7	3594.4	3416.1
30°	3974.3	3965.2	3917.5	3787.9	3823.3	3865.9	3859.8	3862.8	3816.8	3710.4	3545.8
32.5°	4558.2	4516.7	4367.3	4003.1	3910.0	3932.7	3935.8	3986.4	3994.0	3888.7	3746.9
35°	5431.9	5386.3	5192.3	4579.5	4179.9	4100.9	4100.9	4176.9	4222.4	4145.0	4059.4
37.5°	6357.7	6307.1	6203.8	5378.7	4747.1	4392.1	4384.5	4437.7	4503.0	4521.8	4543.0
40°	7409.7	7356.5	7385.4	6275.2	5538.8	4896.6	4788.2	4750.2	4926.9	5044.4	5215.6
42.5°	8561.4	8536.6	8547.2	7273.9	6439.8	5651.7	5497.7	5300.7	5514.4	5723.1	6081.7
45°	9627.0	9648.3	9637.6	8343.1	7443.6	6572.5	6409.4	6028.0	6237.2	6595.3	7179.7
47.5°	10560.4	10471.8	10609.0	9511.0	8567.5	7603.6	7402.1	6891.5	7103.2	7545.4	8533.5
50°	11693.4	11681.2	11480.2	11069.9	9925.8	8638.9	8375.0	7783.4	8112.6	8727.5	10240.3
52.5°	12884.6	12663.3	12478.9	12281.9	11367.2	9700.4	9376.8	8672.3	9299.3	10072.2	12320.4
55°	13128.2	13029.5	13257.9	13589.1	12756.5	10803.0	10426.2	9787.0	10635.4	11609.8	14719.0
57.5°	13649.9	13648.4	14121.4	14711.4	14186.7	11972.5	11592.6	11133.7	12137.1	13370.8	17265.6
60°	14002.4	14101.1	14979.9	16125.0	15591.2	13323.7	12974.3	12687.6	13845.4	15339.5	19638.4
62.5°	14186.7	14321.0	15519.8	16698.3	17576.5	15573.0	15224.0	14810.7	16105.3	17499.1	21026.1
65°	13419.9	13683.3	15435.7	17194.2	19315.3	19219.0	19062.0	18336.3	18930.9	19205.4	20524.7
67.5°	11296.8	11566.8	13607.3	16731.8	20556.6	22736.0	22769.4	21529.6	20669.6	19351.7	17256.5
70°	8048.8	8260.5	9949.1	14028.2	19611.0	25033.8	25148.3	23000.8	20323.1	17161.7	12056.5
72.5°	3821.3	3951.0	5549.4	9130.1	15562.3	22937.0	23158.4	21122.3	17280.8	12705.8	6577.0
75°	1404.4	1443.9	1875.5	3884.1	9026.3	16915.1	17175.9	15141.4	11455.3	6325.8	2505.5
77.5°	841.8	867.6	1052.4	1639.4	3550.4	9668.5	10053.9	8234.7	5006.5	2354.6	1232.2
80°	588.5	606.8	754.6	1020.0	1677.4	3684.6	4027.5	3360.9	1994.5	1490.0	896.5
82.5°	398.1	407.2	530.8	689.3	1114.7	1315.8	1419.6	1494.6	1345.2	1108.7	568.8
85°	260.8	269.9	360.1	454.3	709.1	680.2	695.4	879.7	982.0	753.1	315.5
87.5°	149.4	155.5	216.8	242.6	347.9	288.2	291.2	463.4	628.5	508.0	192.0
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°	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0	3637.0
2.5°	3623.3	3603.5	3559.5	3531.6	3505.8	3499.7	3489.1	3487.6	3486.0	3486.0	3481.5
5°	3542.3	3508.8	3440.5	3402.0	3370.1	3367.0	3365.5	3373.1	3376.1	3379.2	3374.6
7.5°	3490.6	3445.0	3359.4	3304.7	3266.7	3257.1	3272.8	3307.8	3330.5	3339.7	3335.1
10°	3458.7	3402.0	3303.2	3243.4	3211.5	3207.0	3226.7	3268.3	3315.4	3333.6	3332.1
12.5°	3422.2	3357.9	3252.6	3190.3	3172.0	3181.1	3207.0	3245.0	3294.1	3323.0	3324.5
15°	3385.2	3310.8	3202.4	3147.7	3140.1	3152.3	3176.6	3205.5	3243.4	3272.8	3275.9
17.5°	3341.2	3263.2	3155.3	3098.6	3092.5	3098.6	3100.1	3115.3	3140.1	3167.5	3175.1
20°	3294.1	3214.6	3101.6	3045.4	3018.1	2993.7	2965.9	2968.9	2976.5	3004.4	3010.5
22.5°	3260.1	3181.1	3060.6	2982.6	2909.7	2836.2	2781.5	2773.9	2777.0	2799.8	2807.4
25°	3263.2	3179.6	3050.0	2915.8	2755.7	2638.2	2564.8	2552.6	2551.1	2567.8	2578.9
27.5°	3323.0	3238.9	3089.5	2846.9	2588.1	2413.8	2336.3	2327.2	2315.1	2319.6	2331.8
30°	3455.6	3377.7	3185.7	2777.0	2406.2	2194.5	2113.5	2104.4	2087.7	2080.1	2089.2
32.5°	3671.9	3608.1	3326.0	2709.6	2224.9	2006.6	1924.6	1904.8	1894.2	1885.1	1892.7
35°	4032.0	4004.7	3513.4	2636.7	2064.9	1861.8	1787.3	1756.9	1741.8	1758.5	1770.6
37.5°	4596.2	4611.4	3759.0	2522.2	1941.3	1766.1	1703.3	1668.3	1645.5	1659.2	1672.9
40°	5395.4	5406.1	4030.5	2360.7	1834.4	1709.3	1642.5	1610.6	1578.2	1553.9	1552.3
42.5°	6444.3	6336.5	4297.4	2185.4	1710.9	1674.4	1599.9	1559.9	1511.3	1443.9	1430.3
45°	7688.7	7309.4	4500.0	1983.8	1572.1	1631.8	1552.3	1497.6	1421.2	1348.2	1340.6
47.5°	9122.5	8353.7	4599.3	1775.2	1442.4	1569.0	1494.6	1407.5	1311.3	1274.8	1270.2
50°	10872.9	9593.6	4646.4	1572.1	1330.0	1487.0	1410.5	1308.2	1227.7	1220.1	1215.5
52.5°	12866.4	11085.1	4662.1	1406.0	1236.8	1380.1	1342.1	1242.9	1178.6	1185.1	1185.1
55°	14952.5	12625.3	4454.4	1285.4	1151.2	1270.2	1296.1	1217.0	1163.4	1188.2	1197.3
57.5°	16867.5	13990.2	3801.6	1192.7	1070.7	1186.7	1279.3	1241.4	1204.9	1303.7	1309.7
60°	18337.8	14796.5	2839.3	1108.7	1010.9	1157.3	1323.9	1334.5	1343.7	1579.7	1612.1
62.5°	18645.7	14528.6	1951.9	1043.3	983.6	1182.1	1404.4	1406.0	1395.3	1559.9	1579.7
65°	17232.1	12830.9	1419.6	1006.4	960.8	1226.2	1473.3	1440.9	1371.0	1496.1	1459.1
67.5°	13684.8	9667.0	1182.1	979.0	927.3	1223.1	1546.3	1473.3	1357.3	1465.7	1406.0
70°	8883.0	5845.2	1052.4	956.2	887.3	1164.9	1588.8	1470.3	1317.3	1363.4	1293.0
72.5°	4333.9	2613.9	965.3	922.8	846.3	1084.4	1587.3	1442.4	1276.3	1273.3	1235.3
75°	1695.7	1197.3	885.8	872.1	776.4	992.7	1544.7	1402.9	1227.7	1178.6	1164.9
77.5°	992.7	853.9	785.5	797.7	692.3	901.0	1482.4	1334.5	1160.3	1102.6	1087.4
80°	722.7	639.2	669.6	689.3	591.6	809.8	1398.4	1250.5	1085.9	1114.7	1093.5
82.5°	463.4	411.8	542.9	562.7	492.8	716.7	1306.7	1161.8	980.5	890.4	869.1
85°	236.5	260.8	404.2	428.5	379.9	588.5	1195.8	1044.8	861.5	741.0	753.1
87.5°	132.7	178.3	257.8	288.2	268.4	452.8	969.9	861.5	703.0	571.8	503.4
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)