

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: 769013_350MP

Luminaire Tested: **GSM-XX-350-MP-XX-3F-SG-XX-HS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 769013_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GSM-XX-350-MP-XX-3F-SG-XX-HS
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-HORIZONTAL LAMP-TYPE III
DISTRIBUTION
WITH HOUSE-SIDE SHIELD
Light Source: 350 WATT PULSE-START CLEAR ED-37 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 23563.3 lumens
Efficiency: 71.4%
Efficacy: 59.4 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type III - Medium - Cutoff
BUG Rating: B3 - U1 - G3

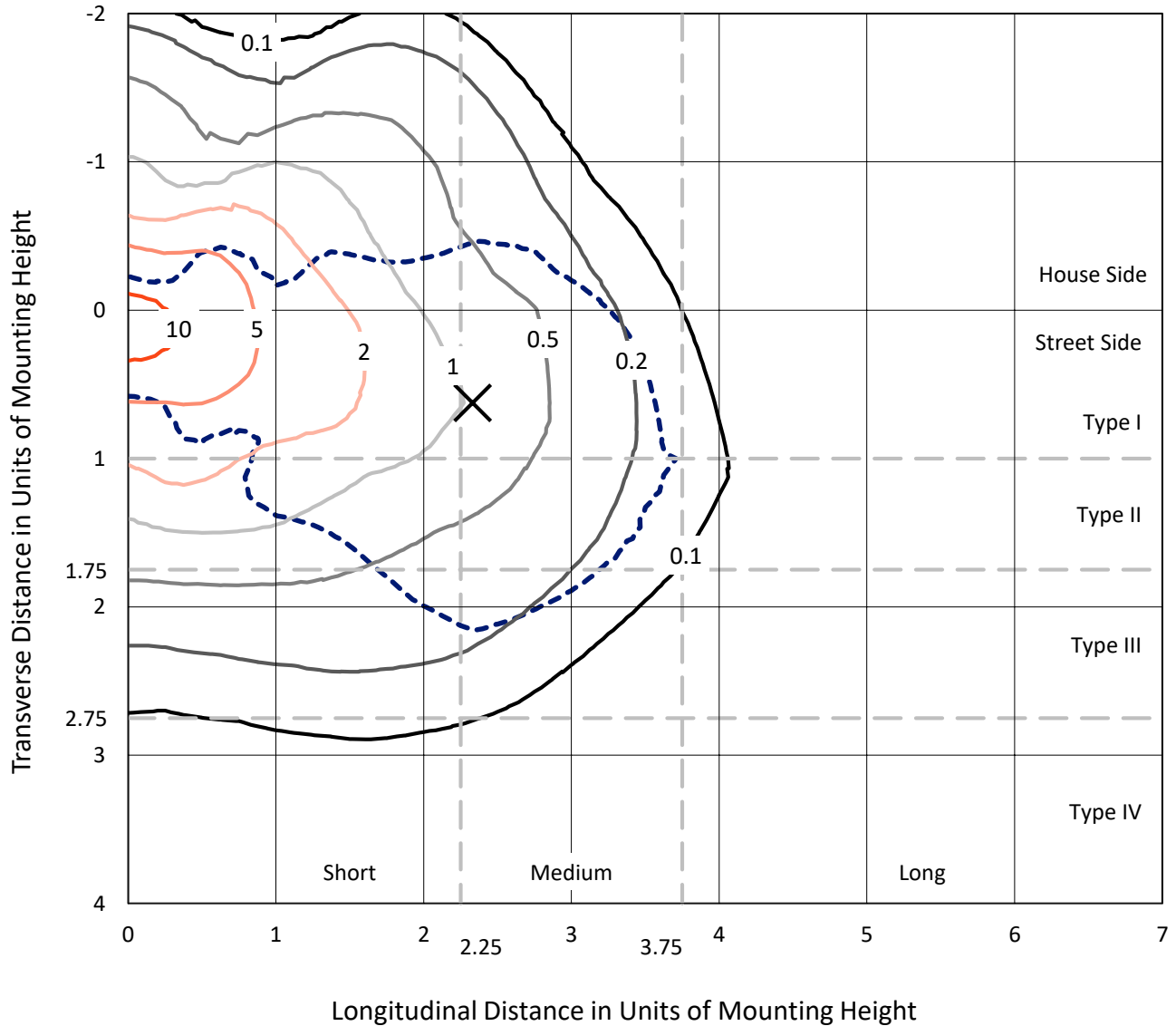
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

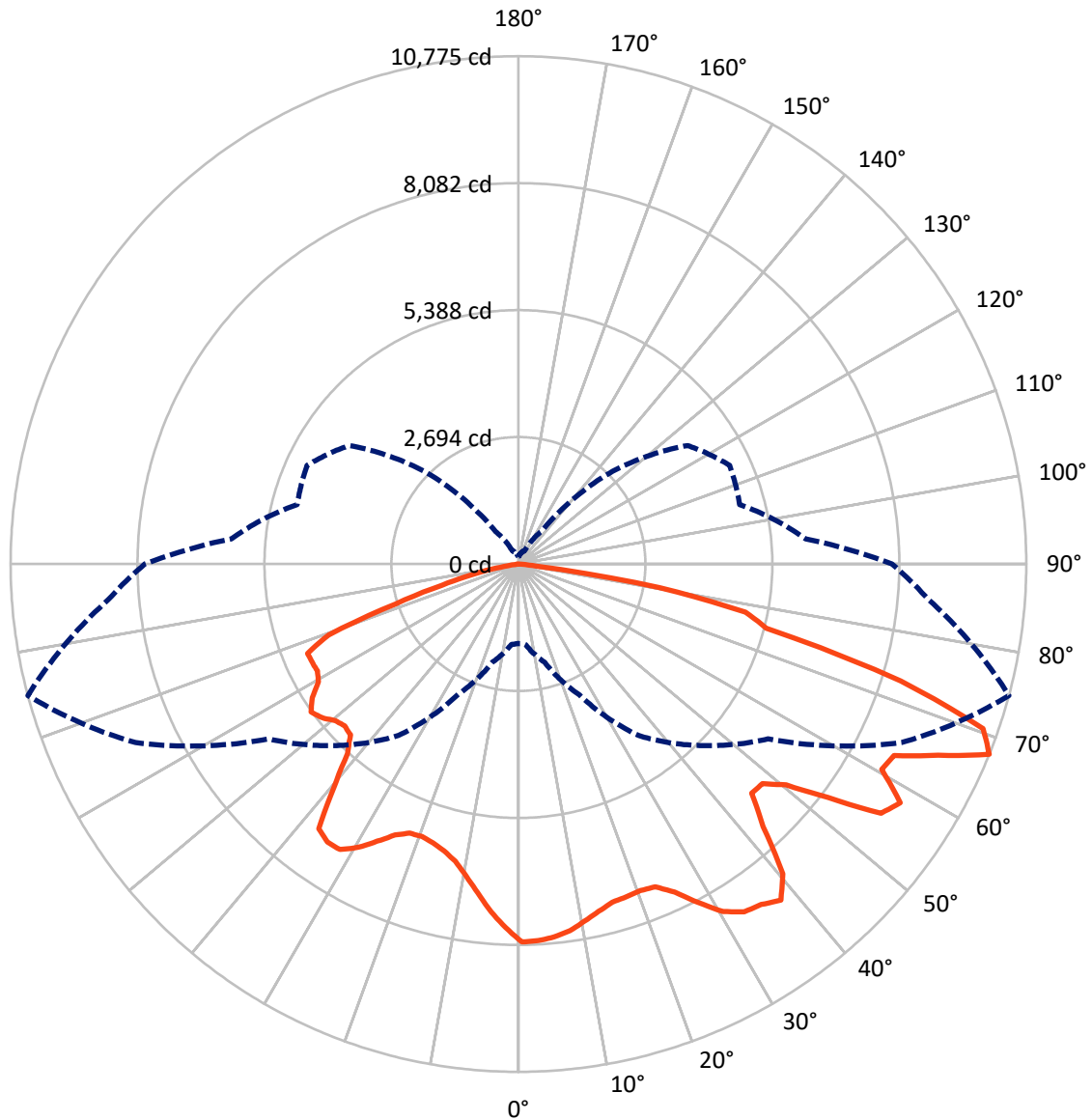
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type III - Medium - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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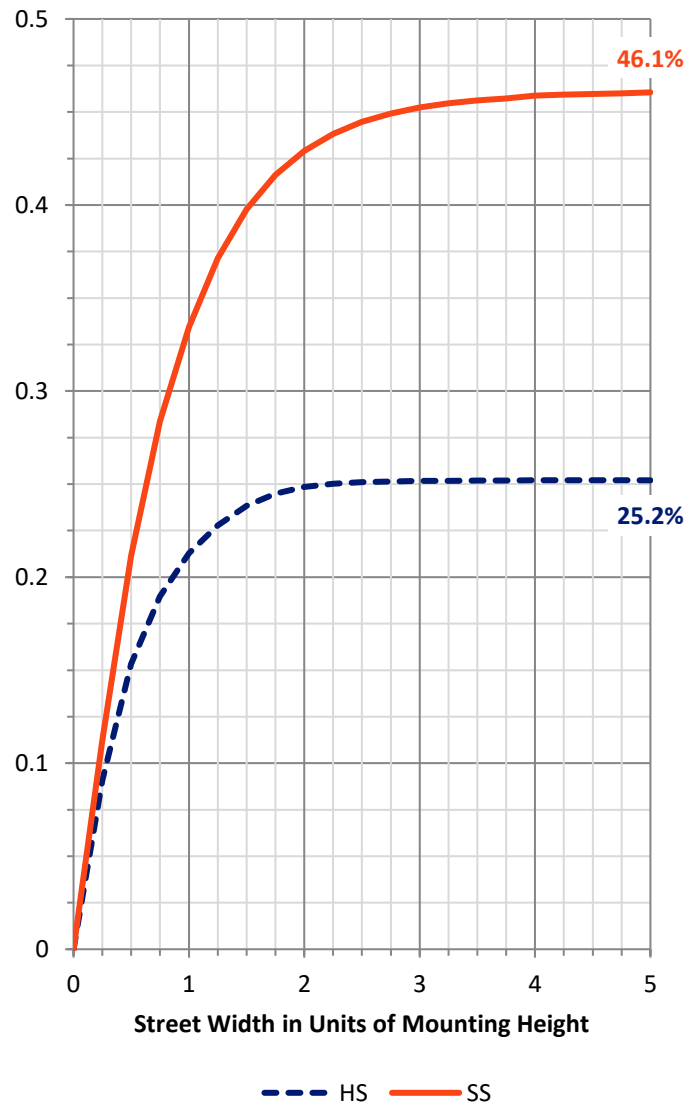
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8368.3	0.0	8368.3
	% Lamp	25.4	0.0	25.4
Street Side	Lumens	15184.7	10.3	15195.0
	% Lamp	46.0	0.0	46.0
Total	Lumens	23553.0	10.3	23563.3
	% Lamp	71.4	0.0	71.4

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	719.5	3.1	2.2
10°-20°	1887.7	8.0	5.7
20°-30°	2789.2	11.8	8.5
30°-40°	3561.9	15.1	10.8
40°-50°	3621.4	15.4	11.0
50°-60°	4230.7	18.0	12.8
60°-70°	4259.0	18.1	12.9
70°-80°	2326.2	9.9	7.0
80°-90°	157.4	0.7	0.5
90°-100°	9.4	0.0	0.0
100°-110°	1.7	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	23553.0	100.0	71.4
0°-180°	23563.3	100.0	71.4



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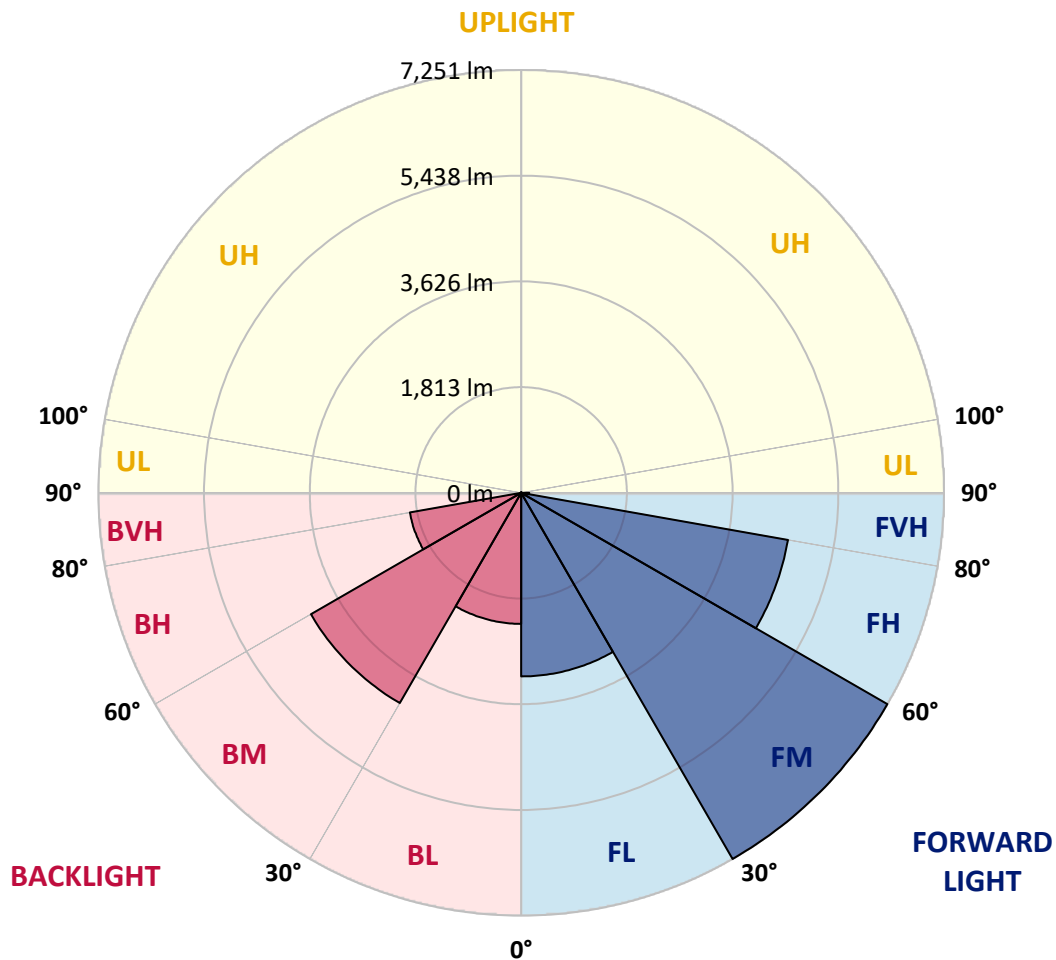
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3148.6	9.5			
FM (30°-60°)	7251.3	22.0			
FH (60°-80°)	4646.7	14.1			G2/5000
FVH (80°-90°)	138.2	0.4			G2/225
BL (0°-30°)	2247.8	6.8	B3/2500		
BM (30°-60°)	4162.7	12.6	B3/5000		
BH (60°-80°)	1938.6	5.9	B3/2500		G3/2500
BVH (80°-90°)	19.2	0.1			G1/100
UL (90°-100°)	9.4	0.0		U1/10	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	9436.7	28.6			

BUG Rating: B3-U1-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8017.2	8017.2	8017.2	8017.2	8017.2	8017.2	8017.2	8017.2	8017.2	8017.2	8017.2
2.5°	8511.2	8516.8	8481.0	8410.4	8349.9	8289.4	8198.7	8093.2	8002.5	7921.8	7855.8
5°	8864.2	8854.1	8809.2	8672.6	8536.9	8405.8	8249.1	8097.8	7946.6	7785.2	7674.3
7.5°	8954.9	8950.3	8869.7	8698.2	8571.8	8446.2	8279.3	8077.7	7855.8	7608.3	7452.5
10°	8844.0	8833.9	8753.2	8607.5	8501.2	8390.2	8254.6	8002.5	7704.6	7457.1	7265.5
12.5°	8511.2	8501.2	8450.8	8375.6	8345.3	8269.2	8087.8	7841.2	7563.4	7245.3	7029.0
15°	8067.6	8063.0	8067.6	8077.7	8097.8	8063.0	7931.9	7739.4	7447.0	7124.3	6912.6
17.5°	7603.8	7603.8	7709.2	7750.4	7775.2	7790.8	7821.0	7684.4	7422.2	7094.1	6882.3
20°	7139.9	7160.1	7275.6	7341.6	7426.8	7568.0	7648.7	7613.8	7396.6	7049.2	6821.8
22.5°	6655.9	6676.1	6837.4	6948.3	7094.1	7331.5	7547.8	7618.4	7436.9	7094.1	6857.6
25°	6182.0	6212.2	6368.1	6524.8	6811.8	7210.5	7588.2	7805.4	7709.2	7386.5	7119.8
27.5°	5738.3	5732.8	5934.5	6161.8	6595.4	7215.1	7744.9	8143.7	8138.2	7765.1	7462.6
30°	5314.8	5324.9	5561.4	5863.9	6479.0	7271.0	8032.8	8516.8	8557.1	8118.0	7815.5
32.5°	4941.8	4956.4	5274.5	5632.0	6479.0	7402.1	8204.2	8723.0	8799.1	8355.4	8037.3
35°	4588.8	4629.2	5006.8	5496.3	6428.6	7436.9	8163.8	8728.5	8874.2	8440.7	8113.4
37.5°	4306.5	4381.7	4921.6	5445.9	6398.3	7326.0	8017.2	8728.5	9045.7	8460.8	8077.7
40°	4064.5	4180.0	4906.0	5430.3	6161.8	7013.4	7876.0	8678.1	8642.3	7694.5	7210.5
42.5°	3903.2	4069.1	4946.3	5415.7	5843.8	6569.8	7422.2	8052.9	7613.8	6736.6	6313.1
45°	3791.3	3983.8	5042.6	5345.1	5420.2	5919.8	6660.5	7119.8	6938.2	6327.8	5914.3
47.5°	3690.5	3943.5	5062.8	5284.6	5032.5	5329.5	6055.5	6771.4	6963.0	6358.0	5909.8
50°	3559.4	3786.8	4996.8	5258.9	4996.8	5214.0	5950.1	7023.5	7361.8	6746.7	6206.8
52.5°	3317.4	3619.9	4865.7	5103.1	5214.0	5445.9	6272.8	7775.2	8228.9	7472.7	6731.1
55°	3166.2	3393.5	4316.6	4916.1	5415.7	5748.4	6837.4	8904.5	9333.5	8284.8	7295.8
57.5°	3065.3	3196.4	3857.3	4659.4	5490.8	5940.0	7094.1	9459.1	9555.3	8168.4	7109.7
60°	2934.2	2990.2	3464.1	4286.3	5269.0	5813.5	6867.7	9051.2	8854.1	7547.8	6726.5
62.5°	2621.7	2651.9	3115.8	3883.0	4901.4	5642.1	6565.2	8940.2	8944.8	7573.5	6721.0
65°	2057.0	2067.1	2591.4	3458.6	4593.4	5496.3	6444.2	9217.1	9787.2	7942.0	7043.7
67.5°	1683.9	1714.2	2163.3	3065.3	4442.2	5445.9	6468.9	8965.0	10775.4	8738.6	7926.4
70°	1492.3	1467.6	1865.4	2697.8	4104.8	5390.0	6666.0	8743.2	10457.3	8869.7	8047.4
72.5°	1139.4	1094.5	1457.5	2278.8	3524.6	5082.9	6378.2	8228.9	8486.5	6837.4	5702.6
75°	816.8	802.1	993.7	1729.8	2506.2	3630.0	4437.6	5269.0	5430.3	4270.8	3660.2
77.5°	625.2	594.9	499.6	580.2	957.9	1860.8	2843.5	4220.3	4926.2	3408.2	2869.2
80°	393.2	358.4	287.8	312.6	519.8	1099.1	1709.6	2738.1	3040.6	1911.2	1558.3
82.5°	272.2	257.6	201.7	171.4	161.3	197.1	237.4	302.5	378.6	211.8	166.8
85°	231.9	221.8	166.8	116.4	70.6	30.2	5.5	5.5	0.0	0.0	0.0
87.5°	151.2	141.2	96.2	50.4	25.7	5.5	0.0	0.0	0.0	0.0	0.0
90°	161.3	151.2	100.8	55.9	15.6	0.0	0.0	0.0	0.0	0.0	0.0
95°	70.6	66.0	35.8	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	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):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8017.2	8017.2	8017.2	8017.2	8017.2	8017.2	8017.2	8017.2	8017.2	8017.2
2.5°	7810.9	7719.2	7674.3	7623.9	7568.0	7527.7	7492.8	7472.7	7467.2	7462.6
5°	7578.1	7402.1	7260.9	7129.8	6998.8	6912.6	6831.9	6776.9	6756.8	6746.7
7.5°	7315.9	7033.6	6756.8	6545.0	6368.1	6272.8	6212.2	6156.3	6111.4	6101.3
10°	7089.5	6710.9	6413.9	6131.6	5889.6	5712.7	5657.7	5621.9	5617.3	5617.3
12.5°	6847.5	6444.2	6101.3	5798.8	5506.4	5319.4	5234.2	5304.8	5345.1	5365.2
15°	6716.4	6287.4	5899.7	5516.5	5203.9	4992.2	4911.5	4966.5	5052.7	5052.7
17.5°	6655.9	6186.6	5808.9	5355.2	4992.2	4744.7	4689.7	4719.9	4795.1	4810.7
20°	6600.0	6131.6	5728.2	5248.8	4895.9	4568.7	4482.5	4593.4	4664.0	4699.8
22.5°	6625.7	6156.3	5687.9	5218.6	4855.6	4422.0	4135.1	4246.0	4346.8	4367.0
25°	6842.0	6317.7	5829.1	5365.2	4840.9	4246.0	3660.2	3554.8	3791.3	3821.6
27.5°	7154.6	6600.0	6071.1	5526.6	4750.2	3983.8	3166.2	2873.8	3156.1	3226.7
30°	7457.1	6908.0	6337.8	5698.0	4593.4	3665.8	2677.6	2309.1	2490.6	2561.2
32.5°	7694.5	7144.5	6565.2	5763.1	4442.2	3363.2	2268.8	1895.7	1966.2	2006.6
35°	7775.2	7154.6	6454.2	5566.9	4165.3	3060.8	1941.5	1653.7	1784.8	1794.8
37.5°	7709.2	7033.6	6277.3	5335.0	3948.1	2783.0	1724.2	1598.7	1774.7	1744.4
40°	6801.7	6161.8	5516.5	4659.4	3730.8	2496.1	1583.1	1588.6	1885.6	1875.5
42.5°	5964.8	5415.7	4946.3	4220.3	3579.6	2208.2	1528.1	1548.2	1986.4	2026.8
45°	5561.4	5082.9	4734.6	4169.9	3519.1	1925.9	1346.6	1421.8	1891.1	1956.2
47.5°	5546.8	5037.1	4704.3	4220.3	3524.6	1699.5	1205.4	1336.5	1608.8	1532.7
50°	5753.0	5113.2	4704.3	4235.9	3494.3	1603.2	1245.8	1366.8	1407.1	1452.0
52.5°	6075.7	5294.7	4805.2	4215.8	3373.3	1532.7	1346.6	1538.2	1739.8	1815.0
55°	6438.7	5405.6	4820.8	4169.9	3226.7	1472.2	1346.6	1633.5	1986.4	2107.4
57.5°	6277.3	5214.0	4719.9	4169.9	3111.2	1386.9	1240.2	1512.5	1905.8	2046.9
60°	5924.4	4921.6	4558.6	4220.3	3025.0	1260.4	1048.7	1165.1	1623.4	1774.7
62.5°	5798.8	4830.8	4674.1	4387.2	2994.8	1109.2	766.3	741.6	1124.8	1240.2
65°	5853.8	4845.5	4906.0	4498.1	2984.7	998.2	534.4	433.6	499.6	574.8
67.5°	6116.0	4861.1	4946.3	4381.7	2722.5	836.9	318.1	247.5	187.0	151.2
70°	6030.8	4301.0	3948.1	3322.9	2178.0	610.5	146.7	110.9	45.8	10.1
72.5°	4371.6	2742.7	2046.9	1548.2	1199.9	328.2	86.2	55.9	0.0	0.0
75°	2939.8	1679.3	1119.2	751.7	494.1	131.1	70.6	40.3	0.0	0.0
77.5°	2238.5	1038.6	620.6	363.0	176.9	30.2	20.2	10.1	0.0	0.0
80°	1144.9	469.3	247.5	121.0	40.3	0.0	0.0	0.0	0.0	0.0
82.5°	126.5	60.5	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)