

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: P456403

Luminaire Tested: **GALN-SA7C-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38841 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): 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: 24 FT



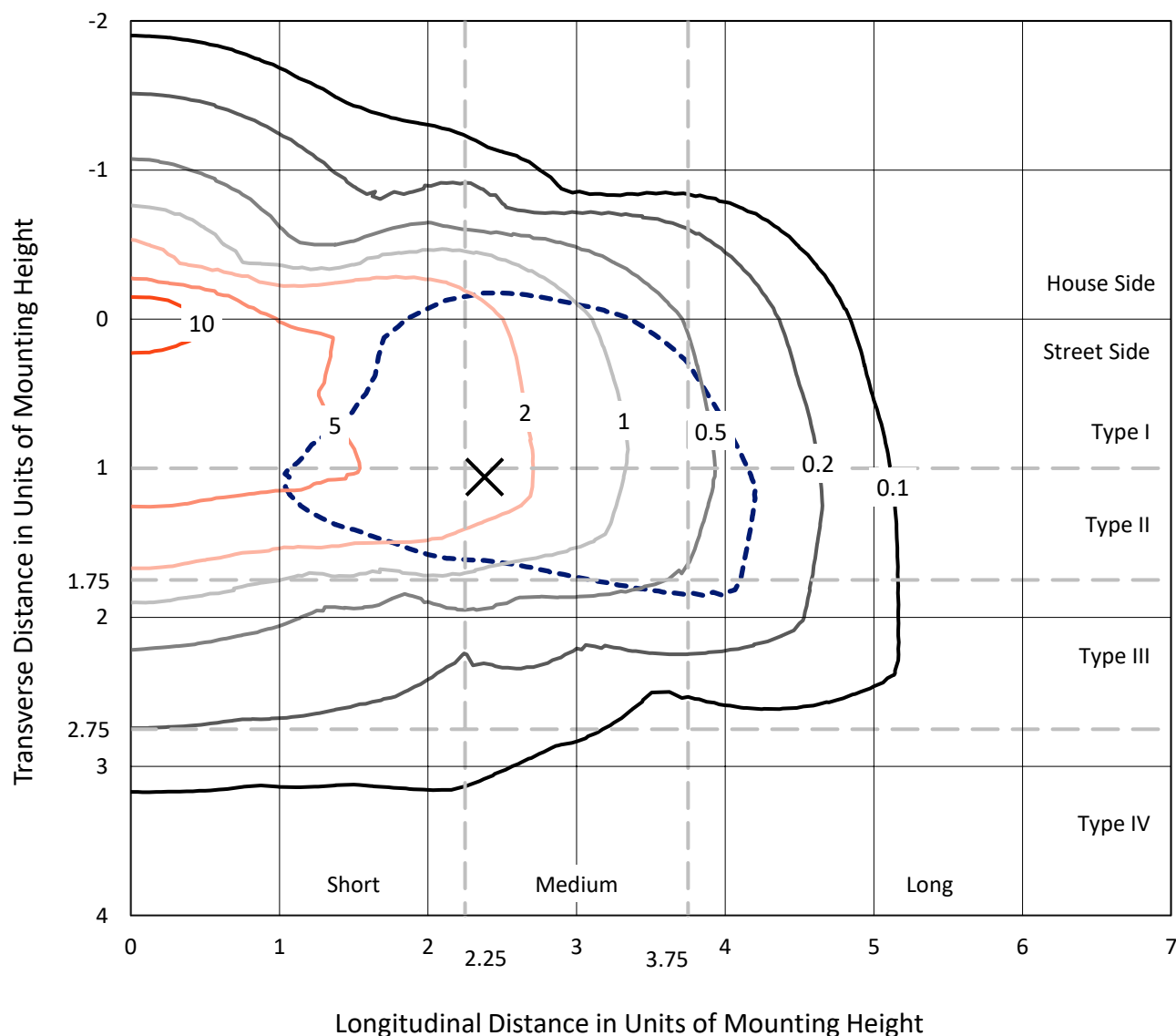
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

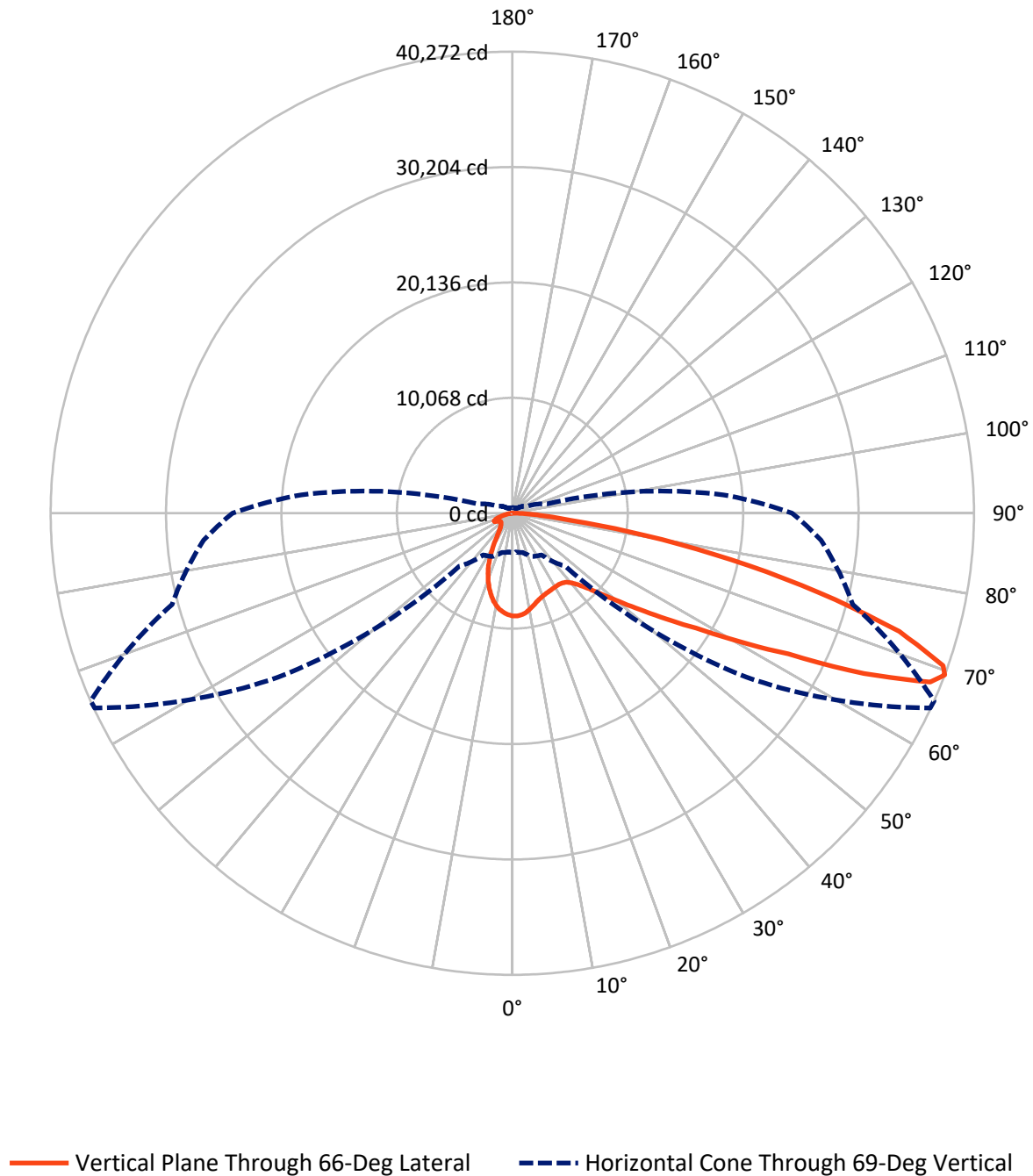


Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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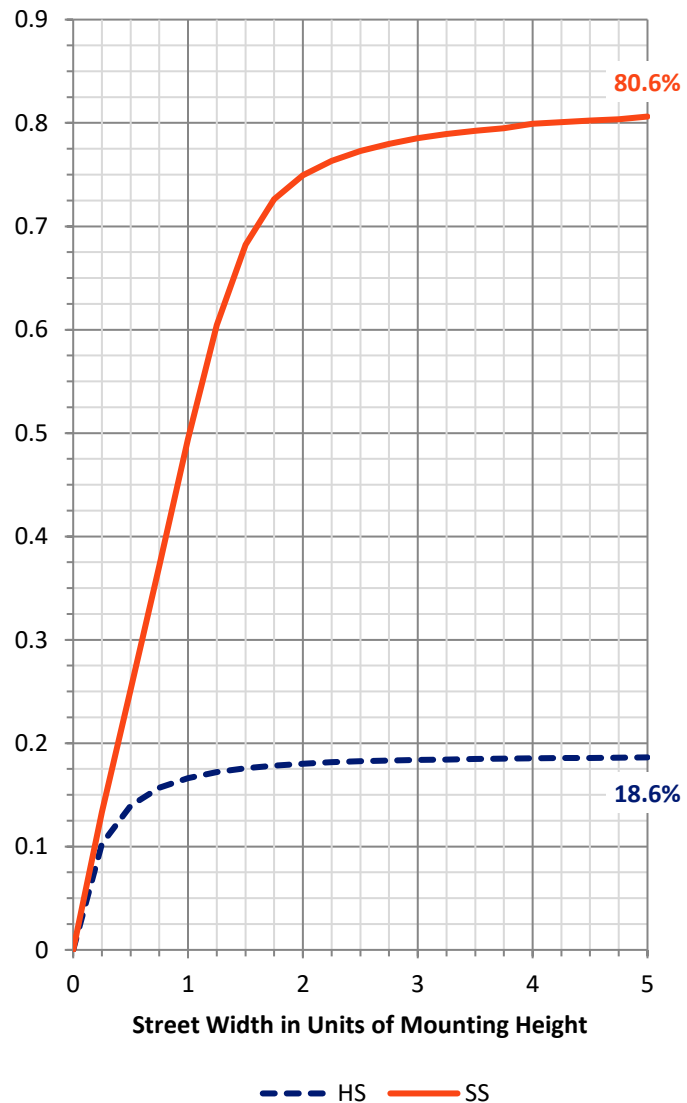
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7304.5	0.0	7304.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	31536.5	0.0	31536.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	38841.0	0.0	38841.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	778.9	2.0
10°-20°	1847.5	4.8
20°-30°	2515.1	6.5
30°-40°	3379.8	8.7
40°-50°	5046.6	13.0
50°-60°	8027.4	20.7
60°-70°	9873.2	25.4
70°-80°	6424.0	16.5
80°-90°	948.6	2.4
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°	38841.0	100.0
0°-180°	38841.0	100.0

Coefficient of Utilization



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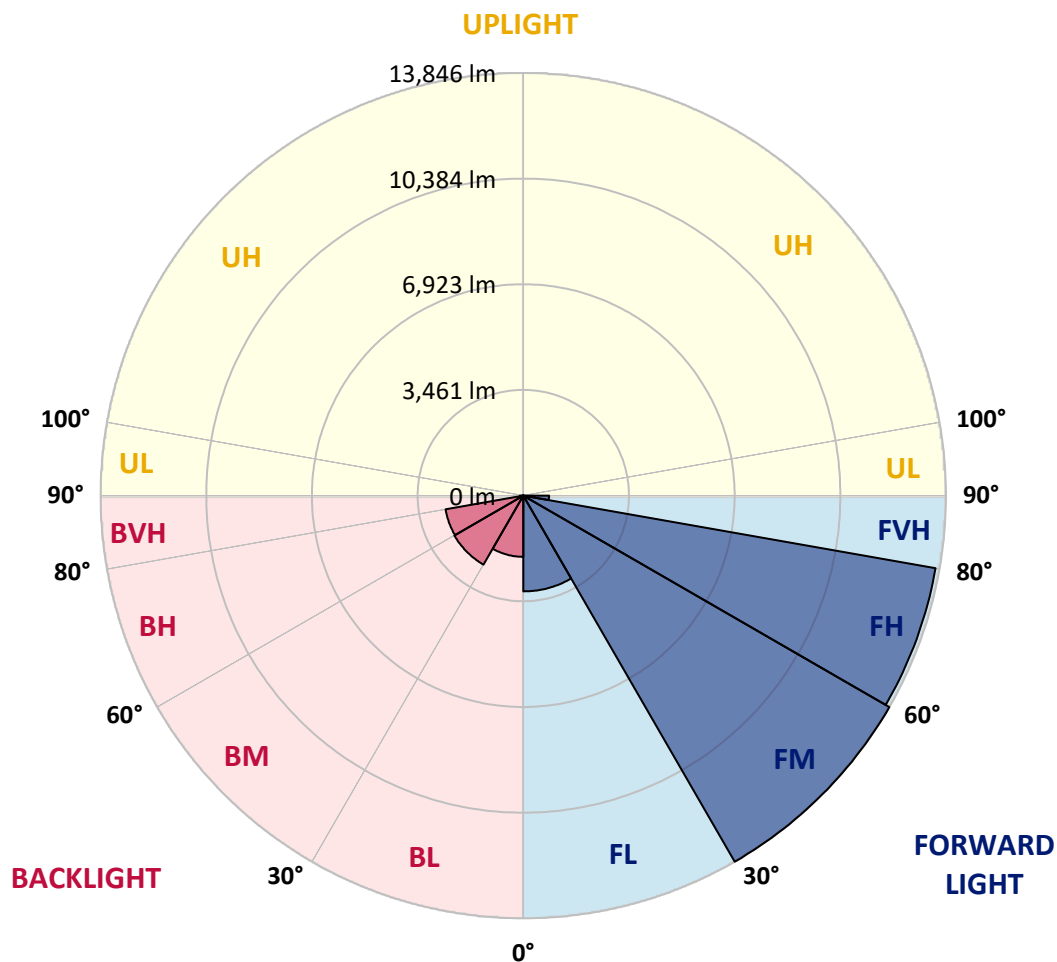
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3136.4	8.1			
FM	(30°-60°)	13845.6	35.6			
FH	(60°-80°)	13711.1	35.3			G5
FVH	(80°-90°)	843.4	2.2			G5
BL	(0°-30°)	2005.1	5.2	B3/2500		
BM	(30°-60°)	2608.0	6.7	B3/5000		
BH	(60°-80°)	2586.1	6.7	B4/5000		G4/5000
BVH	(80°-90°)	105.2	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8969.5	8969.5	8969.5	8969.5	8969.5	8969.5	8969.5	8969.5	8969.5	8969.5	8969.5
2.5°	8655.4	8689.8	8728.6	8771.6	8853.3	8898.5	8930.7	8967.3	8971.6	8991.0	8975.9
5°	8016.6	8057.5	8115.5	8197.3	8319.9	8511.3	8709.2	8870.5	8889.9	8980.2	9006.0
7.5°	7483.2	7506.8	7554.1	7685.3	7859.6	8072.5	8360.7	8687.7	8735.0	8950.1	9025.4
10°	7048.7	7072.3	7128.3	7263.8	7435.8	7702.6	8018.7	8448.9	8487.7	8857.6	9029.7
12.5°	6723.9	6745.4	6805.6	6939.0	7136.9	7386.4	7734.8	8190.8	8246.7	8735.0	8988.8
15°	6476.5	6517.4	6566.9	6676.6	6885.2	7126.1	7463.8	7954.2	7999.4	8606.0	8960.9
17.5°	6371.1	6390.5	6424.9	6526.0	6678.7	6915.3	7255.2	7769.2	7823.0	8515.6	8954.4
20°	6375.4	6394.8	6401.2	6457.2	6566.9	6771.2	7106.7	7623.0	7687.5	8436.0	8965.2
22.5°	6521.7	6523.8	6500.2	6480.8	6523.8	6693.8	7001.3	7513.3	7588.6	8401.6	8973.8
25°	6747.5	6786.3	6751.8	6661.5	6581.9	6663.6	6960.5	7453.0	7524.0	8352.1	8963.0
27.5°	7113.2	7119.6	7091.7	6969.1	6762.6	6702.4	6943.3	7407.9	7468.1	8315.6	8909.2
30°	7603.6	7584.3	7558.4	7422.9	7098.1	6850.8	6979.8	7367.0	7429.4	8261.8	8844.7
32.5°	8100.5	8160.7	8137.0	7977.9	7556.3	7139.0	7098.1	7362.7	7414.3	8220.9	8773.7
35°	8627.5	8655.4	8767.3	8685.5	8253.2	7605.8	7319.7	7429.4	7470.3	8223.1	8724.3
37.5°	9040.4	9115.7	9378.1	9449.1	9042.6	8223.1	7678.9	7618.7	7635.9	8328.5	8743.6
40°	9539.5	9668.5	10006.2	10296.6	10029.9	9025.4	8289.8	7969.3	7990.8	8582.3	8870.5
42.5°	10171.8	10262.2	10716.0	11109.7	11066.6	10085.8	9029.7	8543.6	8554.3	9087.8	9225.4
45°	10911.8	11040.8	11550.6	12142.1	12243.2	11286.0	10098.7	9412.6	9406.1	9872.9	9887.9
47.5°	11858.2	11937.8	12443.3	13088.5	13497.2	12793.9	11395.7	10660.1	10591.3	11017.2	10894.6
50°	12729.3	12854.1	13237.0	13942.5	14959.9	14559.8	13101.4	12277.6	12116.3	12514.2	12307.7
52.5°	13095.0	13226.2	13548.8	14424.3	16213.9	16844.1	15267.5	14207.0	13938.2	14243.6	14168.3
55°	12460.5	12630.4	12931.5	13996.2	16764.5	19479.0	18188.4	16437.6	16241.8	16110.6	16132.1
57.5°	10754.8	10916.1	11322.6	12497.0	16106.3	21391.2	22359.1	19304.8	18885.4	18280.9	18384.2
60°	8186.5	8287.6	8498.4	9799.7	14155.4	21888.1	27095.5	22929.1	22662.4	20442.6	20515.8
62.5°	5814.0	5928.0	6074.3	6723.9	10363.3	20487.8	30803.8	27990.3	27037.5	22681.8	22610.8
65°	4721.3	4643.9	4820.3	5123.6	6080.7	15878.3	31638.3	35015.3	33703.3	25630.7	24645.6
67.5°	3882.5	3800.7	3975.0	4514.8	4624.5	9216.8	28631.3	39575.3	39312.9	28837.8	26712.7
69°	3437.2	3394.2	3546.9	4162.1	4439.6	6545.3	24942.4	40209.9	40272.3	30728.5	27031.0
70°	3097.4	3114.6	3263.0	3983.6	4355.7	5396.7	21318.1	39334.4	39863.6	31672.8	26686.9
72.5°	2280.0	2316.6	2523.1	3299.6	4276.1	4579.4	12686.3	34357.1	35292.8	31728.7	24413.3
75°	1593.9	1576.6	1759.5	2484.3	4039.5	4538.5	7450.9	26570.7	27631.1	27424.6	20513.6
77.5°	1043.2	1071.2	1217.4	1755.2	3398.5	4504.1	4856.8	18850.9	19539.2	18341.2	12133.5
80°	735.6	733.5	815.2	1198.1	2520.9	4327.7	3977.1	11881.9	11707.6	7207.8	3598.5
82.5°	421.6	451.7	546.3	843.2	1686.3	3809.3	3658.8	5682.8	5188.1	2054.2	1215.3
85°	234.5	245.2	324.8	509.8	985.1	2869.4	3194.2	2585.4	2439.2	858.2	522.7
87.5°	75.3	81.7	135.5	258.1	447.4	1355.1	1808.9	1193.8	1101.3	309.7	210.8
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°	8969.5	8969.5	8969.5	8969.5	8969.5	8969.5	8969.5	8969.5	8969.5	8969.5	8969.5
2.5°	8982.4	9008.2	8939.4	8872.7	8812.4	8728.6	8653.3	8590.9	8547.9	8541.4	8519.9
5°	9012.5	9014.6	8883.4	8707.1	8535.0	8345.7	8150.0	8010.1	7878.9	7805.8	7769.2
7.5°	9034.0	9014.6	8778.0	8492.0	8160.7	7816.6	7472.4	7197.1	6984.1	6900.3	6932.5
10°	9025.4	8965.2	8618.9	8160.7	7678.9	7164.8	6670.1	6282.9	5928.0	5745.2	5749.5
12.5°	8978.1	8879.1	8382.3	7788.6	7080.9	6392.6	5635.5	5112.8	4702.0	4458.9	4383.6
15°	8937.2	8765.1	8104.8	7283.1	6403.4	5420.4	4497.6	3852.4	3508.2	3316.8	3314.6
17.5°	8894.2	8655.4	7801.5	6747.5	5624.7	4360.0	3392.0	2899.5	2738.2	2757.5	2725.3
20°	8849.0	8526.4	7485.3	6151.7	4676.2	3252.2	2540.3	2340.2	2385.4	2473.6	2486.5
22.5°	8797.4	8388.7	7145.5	5495.7	3678.1	2447.8	2060.6	2030.5	2146.6	2284.3	2303.7
25°	8717.8	8216.6	6717.4	4809.5	2837.1	1972.4	1804.6	1826.2	1940.2	2056.3	2069.2
27.5°	8606.0	8003.7	6285.1	3953.4	2131.6	1692.8	1649.8	1677.7	1733.7	1804.6	1821.9
30°	8455.4	7762.8	5788.2	3213.5	1707.9	1553.0	1535.8	1550.8	1583.1	1613.2	1621.8
32.5°	8304.8	7530.5	5287.0	2460.7	1522.9	1460.5	1443.3	1443.3	1443.3	1447.6	1449.7
35°	8165.0	7311.1	4749.3	1916.5	1426.1	1387.4	1363.7	1337.9	1333.6	1318.5	1318.5
37.5°	8087.6	7111.0	4177.1	1604.6	1355.1	1327.1	1294.9	1251.9	1228.2	1230.3	1226.0
40°	8102.6	6979.8	3656.6	1428.2	1297.0	1266.9	1217.4	1168.0	1152.9	1152.9	1148.6
42.5°	8272.6	6936.8	3157.6	1335.7	1241.1	1206.7	1144.3	1099.1	1090.5	1088.4	1092.7
45°	8664.0	7042.2	2710.2	1275.5	1193.8	1142.2	1079.8	1038.9	1030.3	1030.3	1028.2
47.5°	9427.6	7384.2	2389.7	1236.8	1159.4	1092.7	1028.2	987.3	972.2	967.9	967.9
50°	10614.9	8126.3	2151.0	1202.4	1116.3	1047.5	980.8	933.5	909.9	907.7	905.6
52.5°	12264.7	9283.5	2058.5	1176.6	1069.0	1000.2	927.1	881.9	851.8	845.3	841.0
55°	14194.1	10898.9	2185.4	1157.2	1019.6	946.4	871.1	823.8	795.9	782.9	780.8
57.5°	16429.0	12839.0	2667.2	1131.4	974.4	888.3	815.2	767.9	737.8	722.7	718.4
60°	18435.8	14833.0	3508.2	1116.3	935.7	826.0	750.7	707.7	679.7	664.6	662.5
62.5°	20640.5	16734.4	4512.7	1157.2	918.5	765.7	690.5	651.7	628.1	613.0	613.0
65°	22995.8	18638.0	5177.3	1294.9	944.3	718.4	625.9	593.7	572.2	561.4	559.2
67.5°	24583.2	19296.2	4265.3	1436.8	1008.8	666.8	563.5	537.7	524.8	514.1	514.1
69°	24411.1	18463.8	3146.8	1473.4	1028.2	641.0	529.1	509.8	492.6	488.3	484.0
70°	23867.0	17515.2	2637.1	1449.7	1013.1	617.3	507.6	484.0	468.9	464.6	462.5
72.5°	21257.8	15190.0	1963.8	1260.5	862.5	535.6	449.5	428.0	415.1	408.7	408.7
75°	17661.5	12415.3	1533.6	1002.3	675.4	451.7	385.0	367.8	357.1	352.8	350.6
77.5°	9898.7	6932.5	1101.3	785.1	511.9	365.7	322.6	307.6	296.8	292.5	292.5
80°	2757.5	1981.0	647.4	518.4	348.5	277.5	256.0	245.2	230.2	219.4	225.8
82.5°	1038.9	858.2	370.0	311.9	221.5	185.0	178.5	169.9	163.5	148.4	148.4
85°	505.5	417.3	236.6	165.6	122.6	96.8	92.5	88.2	83.9	73.1	75.3
87.5°	174.2	185.0	103.2	60.2	36.6	23.7	19.4	10.8	10.8	10.8	10.8
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)