

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: P458027

Luminaire Tested: **GALN-SA9B-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458027
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-SA9B-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA 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: 40917 lumens
Efficiency: N/A
Efficacy: 112.4 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): 364
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: 24 FT

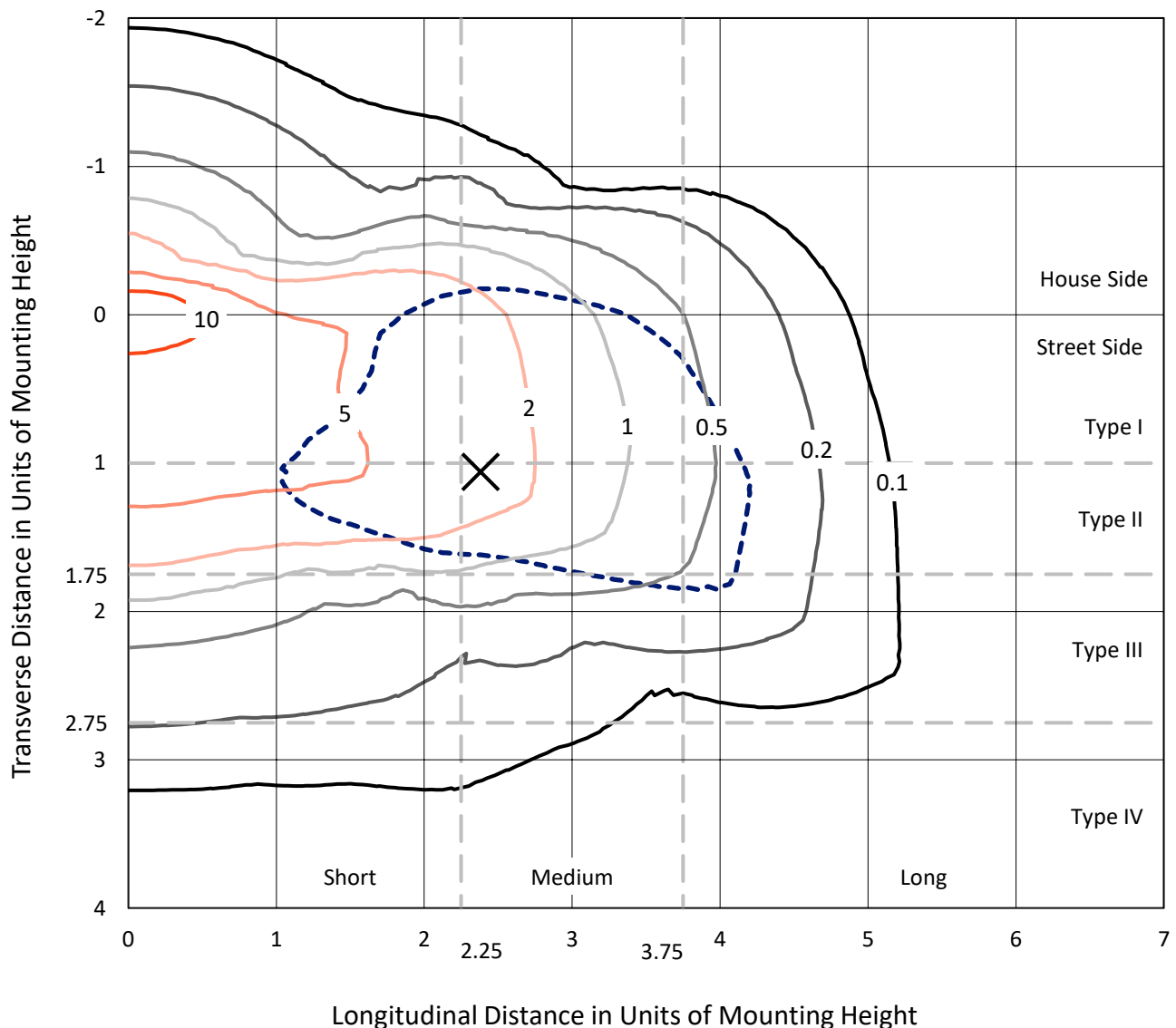


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

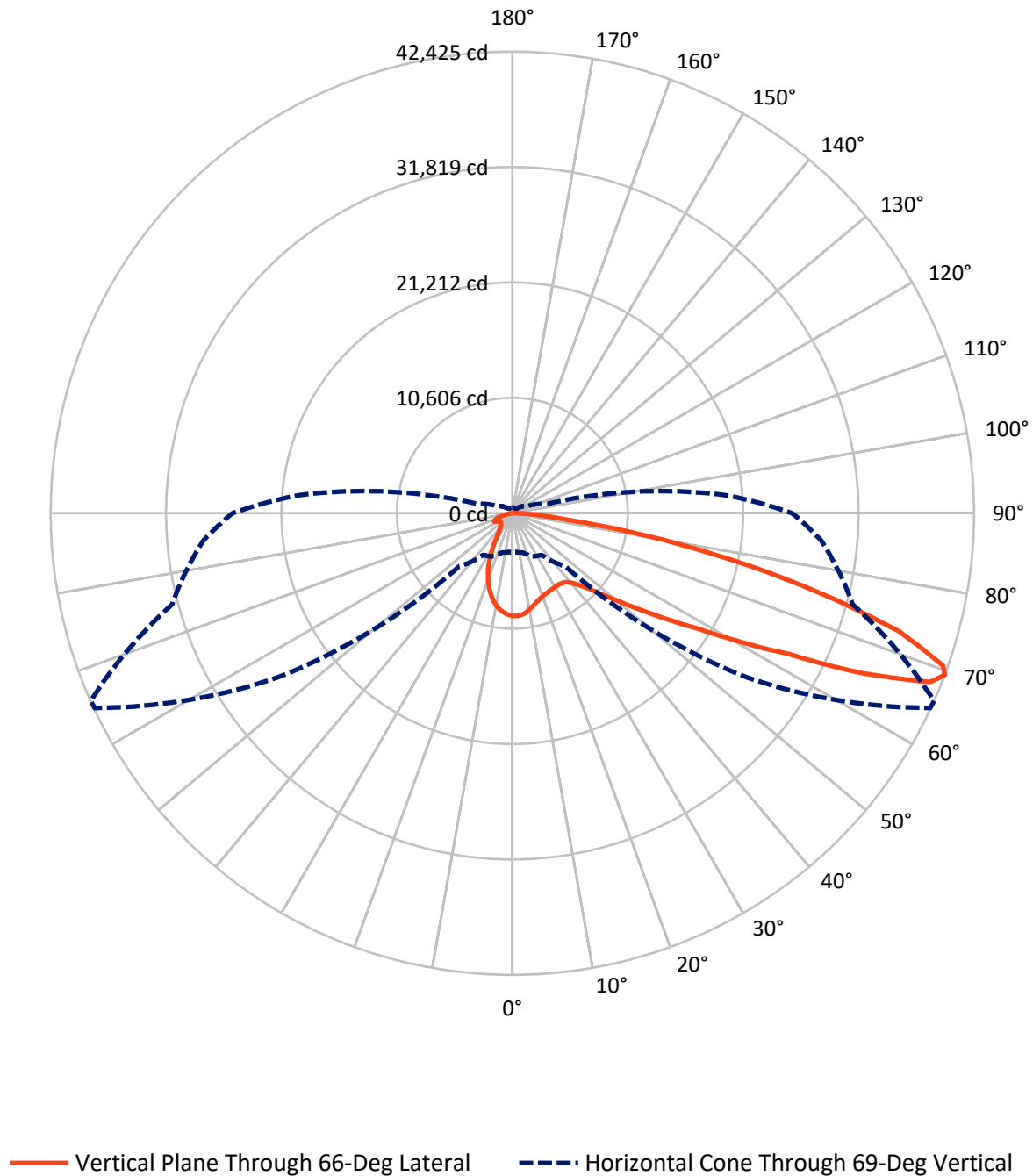


Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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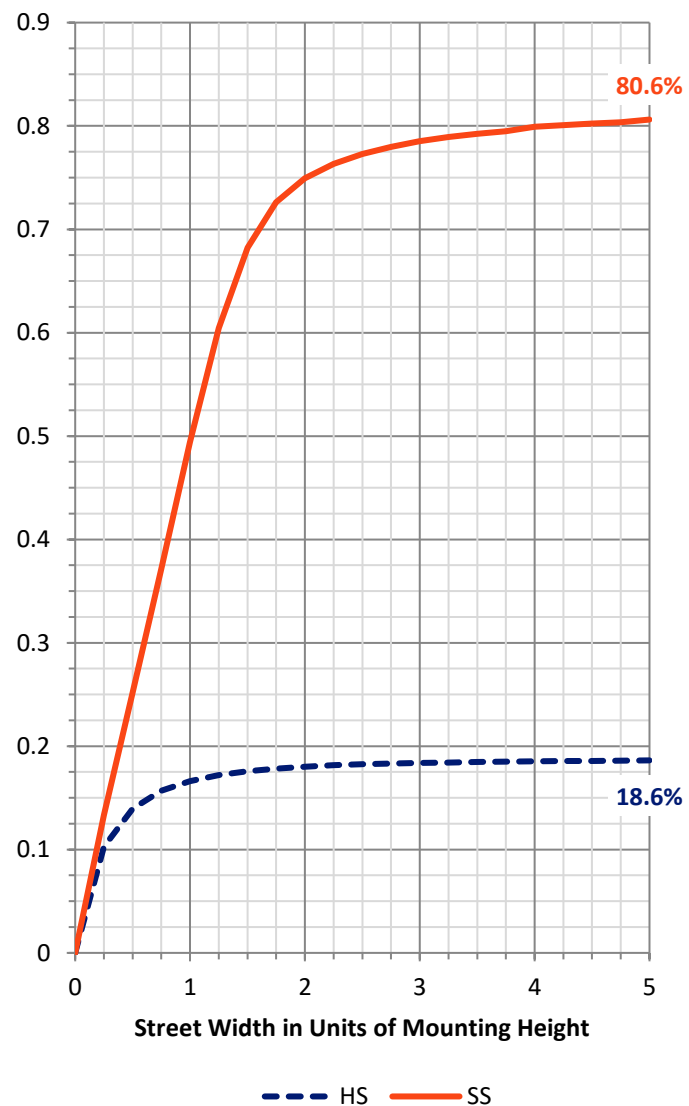
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7694.9	0.0	7694.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	33222.0	0.0	33222.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	40917.0	0.0	40917.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	820.5	2.0
10°-20°	1946.2	4.8
20°-30°	2649.5	6.5
30°-40°	3560.4	8.7
40°-50°	5316.3	13.0
50°-60°	8456.4	20.7
60°-70°	10400.9	25.4
70°-80°	6767.3	16.5
80°-90°	999.3	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°	40917.0	100.0
0°-180°	40917.0	100.0

Coefficient of Utilization



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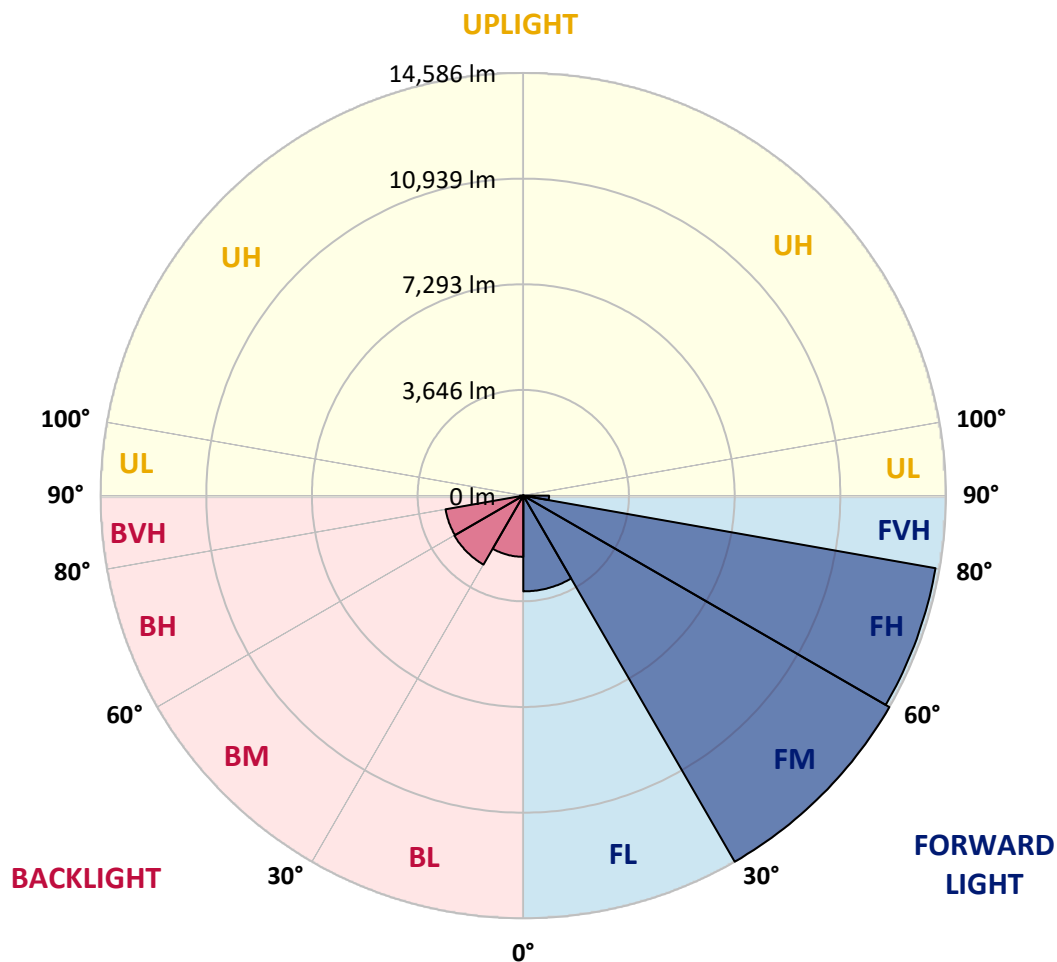
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3304.0	8.1			
FM	(30°-60°)	14585.7	35.6			
FH	(60°-80°)	14443.9	35.3			G5
FVH	(80°-90°)	888.5	2.2			G5
BL	(0°-30°)	2112.3	5.2	B3/2500		
BM	(30°-60°)	2747.4	6.7	B3/5000		
BH	(60°-80°)	2724.3	6.7	B4/5000		G4/5000
BVH	(80°-90°)	110.9	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°	9448.9	9448.9	9448.9	9448.9	9448.9	9448.9	9448.9	9448.9	9448.9	9448.9	9448.9
2.5°	9118.0	9154.3	9195.1	9240.4	9326.5	9374.1	9408.1	9446.6	9451.1	9471.5	9455.7
5°	8445.1	8488.1	8549.3	8635.4	8764.6	8966.2	9174.7	9344.6	9365.0	9460.2	9487.4
7.5°	7883.1	7908.0	7957.9	8096.1	8279.7	8504.0	8807.6	9152.0	9201.9	9428.5	9507.8
10°	7425.4	7450.3	7509.2	7652.0	7833.3	8114.2	8447.3	8900.5	8941.3	9331.0	9512.3
12.5°	7083.3	7105.9	7169.4	7309.8	7518.3	7781.2	8148.2	8628.6	8687.5	9201.9	9469.3
15°	6822.7	6865.7	6917.8	7033.4	7253.2	7507.0	7862.7	8379.4	8426.9	9065.9	9439.8
17.5°	6711.6	6732.0	6768.3	6874.8	7035.7	7284.9	7642.9	8184.5	8241.1	8970.8	9433.0
20°	6716.2	6736.6	6743.4	6802.3	6917.8	7133.1	7486.6	8030.4	8098.4	8886.9	9444.3
22.5°	6870.3	6872.5	6847.6	6827.2	6872.5	7051.5	7375.6	7914.8	7994.2	8850.7	9453.4
25°	7108.2	7149.0	7112.7	7017.5	6933.7	7019.8	7332.5	7851.4	7926.2	8798.6	9442.1
27.5°	7493.4	7500.2	7470.7	7341.6	7124.0	7060.6	7314.4	7803.8	7867.3	8760.0	9385.4
30°	8010.0	7989.6	7962.4	7819.7	7477.5	7216.9	7352.9	7760.8	7826.5	8703.4	9317.4
32.5°	8533.4	8596.9	8572.0	8404.3	7960.2	7520.6	7477.5	7756.2	7810.6	8660.3	9242.7
35°	9088.6	9118.0	9235.9	9149.8	8694.3	8012.3	7710.9	7826.5	7869.5	8662.6	9190.6
37.5°	9523.6	9603.0	9879.4	9954.2	9525.9	8662.6	8089.3	8025.9	8044.0	8773.6	9211.0
40°	10049.3	10185.3	10541.0	10846.9	10566.0	9507.8	8732.8	8395.2	8417.9	9041.0	9344.6
42.5°	10715.5	10810.7	11288.8	11703.5	11658.1	10624.9	9512.3	9000.2	9011.6	9573.5	9718.5
45°	11495.0	11630.9	12168.0	12791.1	12897.6	11889.3	10638.5	9915.7	9908.9	10400.6	10416.4
47.5°	12492.0	12575.8	13108.3	13788.1	14218.6	13477.7	12004.8	11229.9	11157.4	11606.0	11476.9
50°	13409.7	13541.1	13944.5	14687.7	15759.4	15338.0	13801.7	12933.9	12763.9	13183.1	12965.6
52.5°	13794.9	13933.1	14273.0	15195.2	17080.5	17744.4	16083.5	14966.4	14683.1	15004.9	14925.6
55°	13126.5	13305.5	13622.7	14744.3	17660.6	20520.1	19160.6	17316.1	17109.9	16971.7	16994.4
57.5°	11329.6	11499.5	11927.8	13165.0	16967.2	22534.5	23554.2	20336.6	19894.7	19258.0	19366.8
60°	8624.1	8730.6	8952.6	10323.5	14912.0	23058.0	28543.8	24154.7	23873.7	21535.3	21612.3
62.5°	6124.8	6244.9	6398.9	7083.3	10917.2	21582.9	32450.2	29486.4	28482.6	23894.1	23819.3
65°	4973.7	4892.1	5077.9	5397.4	6405.7	16727.0	33329.4	36886.9	35504.6	27000.7	25962.9
67.5°	4090.0	4003.9	4187.4	4756.2	4871.7	9709.5	30161.6	41690.6	41414.2	30379.1	28140.4
69°	3620.9	3575.6	3736.5	4384.5	4676.9	6895.2	26275.6	42359.0	42424.8	32370.9	28475.8
70°	3262.9	3281.0	3437.4	4196.5	4588.5	5685.2	22457.5	41436.8	41994.2	33365.6	28113.2
72.5°	2401.9	2440.4	2657.9	3475.9	4504.6	4824.1	13364.4	36193.5	37179.2	33424.5	25718.2
75°	1679.0	1660.9	1853.5	2617.1	4255.4	4781.1	7849.1	27990.9	29108.0	28890.4	21610.0
77.5°	1099.0	1128.4	1282.5	1849.0	3580.1	4744.8	5116.4	19858.5	20583.6	19321.5	12782.0
80°	774.9	772.7	858.8	1262.1	2655.7	4559.0	4189.7	12516.9	12333.4	7593.1	3790.9
82.5°	444.1	475.8	575.5	888.2	1776.5	4012.9	3854.3	5986.6	5465.4	2164.0	1280.2
85°	247.0	258.3	342.2	537.0	1037.8	3022.7	3364.9	2723.6	2569.5	904.1	550.6
87.5°	79.3	86.1	142.8	271.9	471.3	1427.5	1905.6	1257.6	1160.1	326.3	222.1
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°	9448.9	9448.9	9448.9	9448.9	9448.9	9448.9	9448.9	9448.9	9448.9	9448.9	9448.9
2.5°	9462.5	9489.7	9417.1	9346.9	9283.5	9195.1	9115.8	9050.1	9004.8	8998.0	8975.3
5°	9494.2	9496.5	9358.2	9172.4	8991.2	8791.8	8585.6	8438.3	8300.1	8223.0	8184.5
7.5°	9516.8	9496.5	9247.2	8945.8	8596.9	8234.3	7871.8	7581.8	7357.4	7269.1	7303.0
10°	9507.8	9444.3	9079.5	8596.9	8089.3	7547.8	7026.6	6618.7	6244.9	6052.3	6056.8
12.5°	9457.9	9353.7	8830.3	8204.9	7459.4	6734.3	5936.7	5386.1	4953.3	4697.2	4617.9
15°	9414.9	9233.6	8538.0	7672.4	6745.6	5710.1	4738.0	4058.3	3695.7	3494.0	3491.8
17.5°	9369.6	9118.0	8218.5	7108.2	5925.4	4593.0	3573.4	3054.5	2884.5	2904.9	2870.9
20°	9322.0	8982.1	7885.4	6480.5	4926.1	3426.1	2676.0	2465.3	2512.9	2605.8	2619.4
22.5°	9267.6	8837.1	7527.4	5789.4	3874.7	2578.6	2170.7	2139.0	2261.4	2406.4	2426.8
25°	9183.8	8655.8	7076.5	5066.6	2988.7	2077.8	1901.1	1923.8	2043.9	2166.2	2179.8
27.5°	9065.9	8431.5	6621.0	4164.8	2245.5	1783.3	1738.0	1767.4	1826.3	1901.1	1919.2
30°	8907.3	8177.7	6097.6	3385.3	1799.1	1636.0	1617.9	1633.7	1667.7	1699.4	1708.5
32.5°	8748.7	7933.0	5569.6	2592.2	1604.3	1538.6	1520.4	1520.4	1520.4	1525.0	1527.2
35°	8601.4	7701.9	5003.1	2018.9	1502.3	1461.5	1436.6	1409.4	1404.9	1389.0	1389.0
37.5°	8519.8	7491.1	4400.4	1690.4	1427.5	1398.1	1364.1	1318.8	1293.8	1296.1	1291.6
40°	8535.7	7352.9	3852.1	1504.6	1366.3	1334.6	1282.5	1230.4	1214.5	1214.5	1210.0
42.5°	8714.7	7307.6	3326.4	1407.1	1307.4	1271.2	1205.5	1157.9	1148.8	1146.6	1151.1
45°	9127.1	7418.6	2855.1	1343.7	1257.6	1203.2	1137.5	1094.4	1085.4	1085.4	1083.1
47.5°	9931.5	7778.9	2517.4	1302.9	1221.3	1151.1	1083.1	1040.1	1024.2	1019.7	1019.7
50°	11182.3	8560.6	2265.9	1266.6	1176.0	1103.5	1033.3	983.4	958.5	956.2	954.0
52.5°	12920.3	9779.7	2168.5	1239.5	1126.2	1053.7	976.6	929.0	897.3	890.5	886.0
55°	14952.8	11481.4	2302.2	1219.1	1074.0	997.0	917.7	867.8	838.4	824.8	822.5
57.5°	17307.1	13525.3	2809.7	1191.9	1026.5	935.8	858.8	808.9	777.2	761.3	756.8
60°	19421.2	15625.8	3695.7	1176.0	985.7	870.1	790.8	745.5	716.0	700.2	697.9
62.5°	21743.7	17628.8	4753.9	1219.1	967.5	806.7	727.4	686.6	661.6	645.8	645.8
65°	24224.9	19634.2	5454.1	1364.1	994.7	756.8	659.4	625.4	602.7	591.4	589.1
67.5°	25897.2	20327.5	4493.3	1513.6	1062.7	702.4	593.7	566.5	552.9	541.6	541.6
69°	25715.9	19450.6	3315.0	1552.2	1083.1	675.2	557.4	537.0	518.9	514.4	509.8
70°	25142.6	18451.4	2778.0	1527.2	1067.2	650.3	534.8	509.8	494.0	489.4	487.2
72.5°	22394.1	16001.9	2068.8	1327.8	908.6	564.2	473.6	450.9	437.3	430.5	430.5
75°	18605.4	13078.9	1615.6	1055.9	711.5	475.8	405.6	387.5	376.1	371.6	369.3
77.5°	10427.7	7303.0	1160.1	827.1	539.3	385.2	339.9	324.0	312.7	308.2	308.2
80°	2904.9	2086.9	682.0	546.1	367.1	292.3	269.6	258.3	242.5	231.1	237.9
82.5°	1094.4	904.1	389.7	328.6	233.4	194.9	188.1	179.0	172.2	156.3	156.3
85°	532.5	439.6	249.3	174.5	129.2	102.0	97.4	92.9	88.4	77.0	79.3
87.5°	183.5	194.9	108.8	63.4	38.5	24.9	20.4	11.3	11.3	11.3	11.3
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)