

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: P457330

Luminaire Tested: **GALN-SA8C-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36921 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 429
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

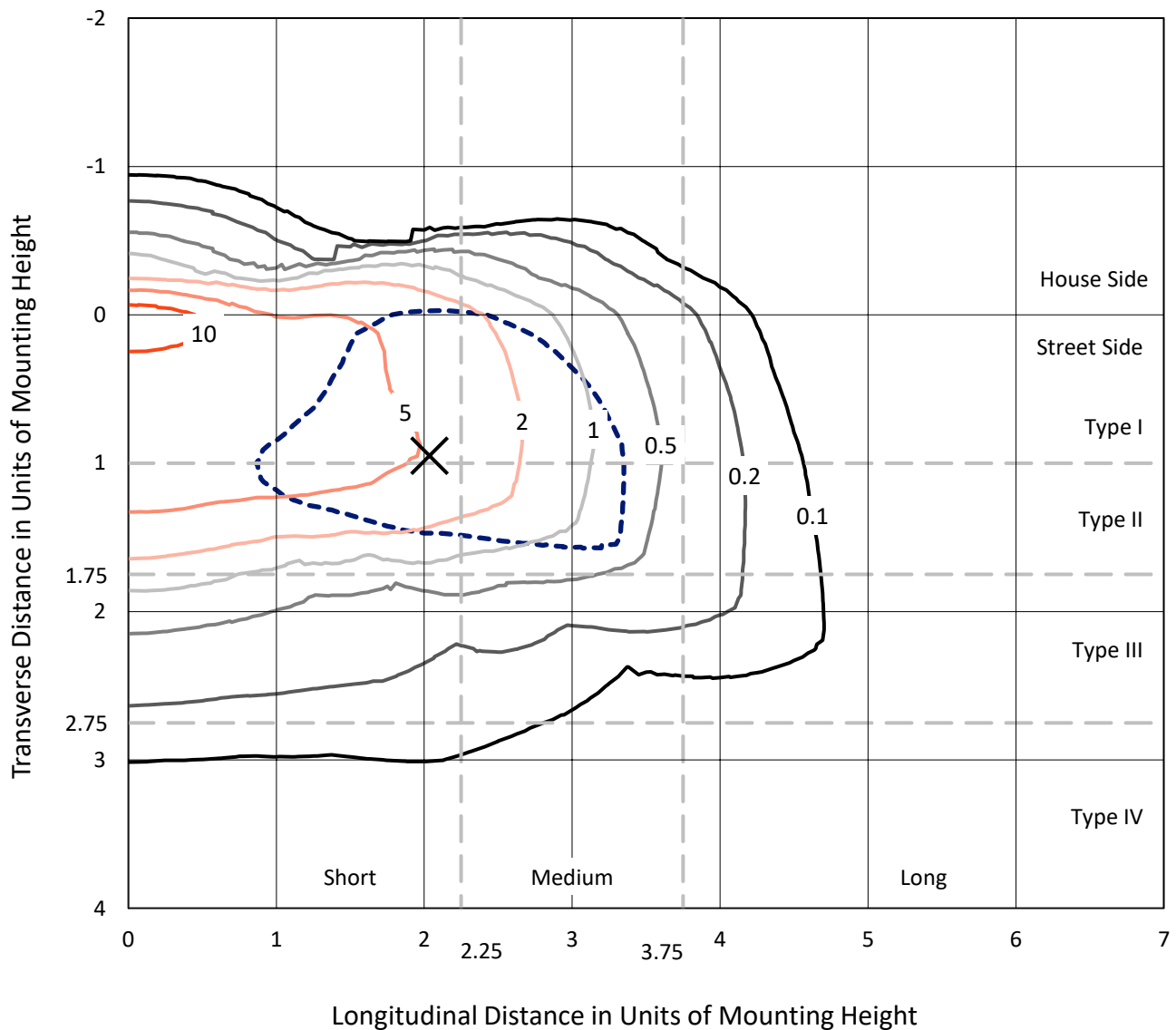


REPORT NUMBER: P457330

CATALOG NUMBER: GALN-SA8C-830-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

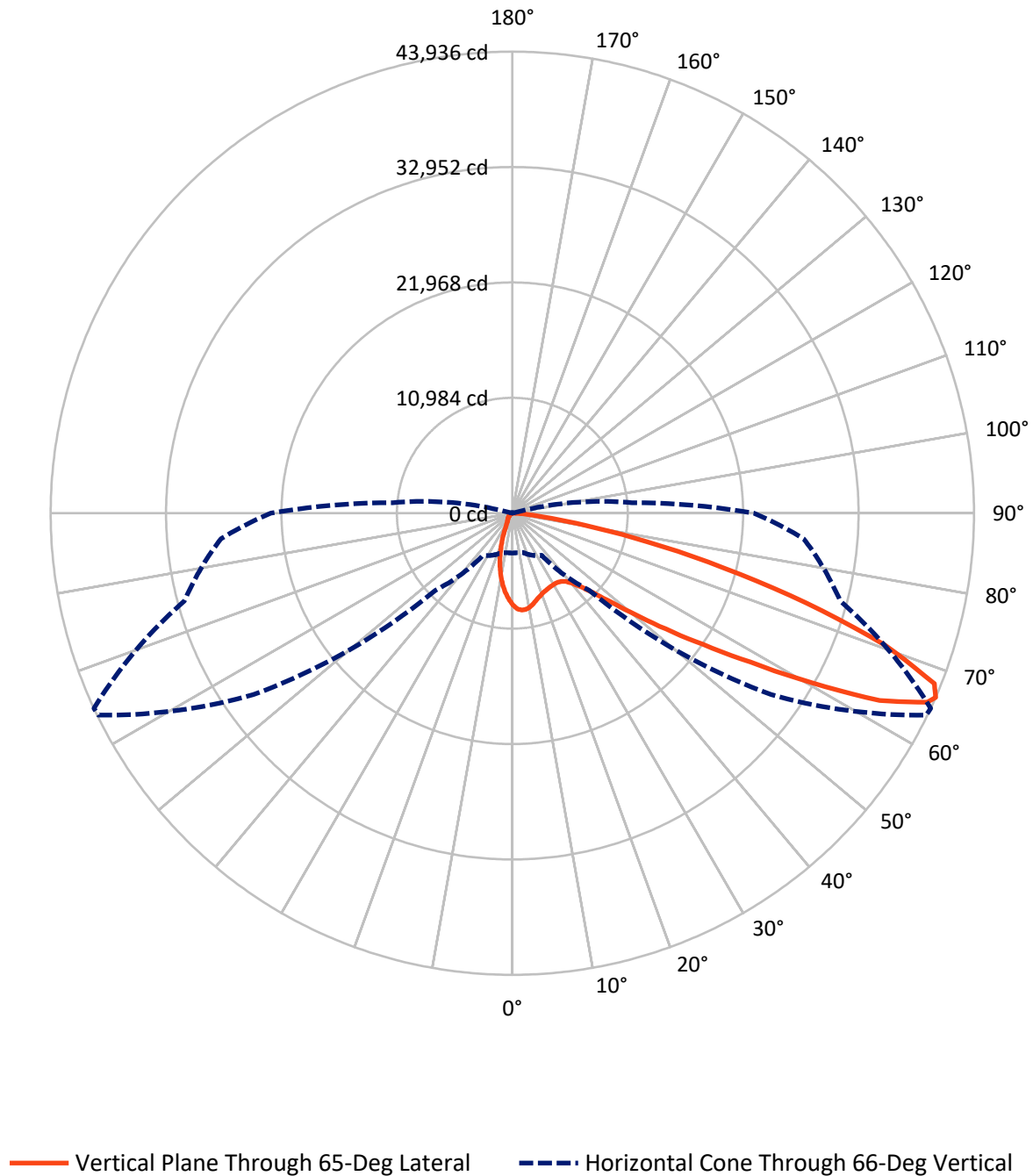


Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type II - Short - N/A

REPORT NUMBER: P457330

CATALOG NUMBER: GALN-SA8C-830-U-SL2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P457330

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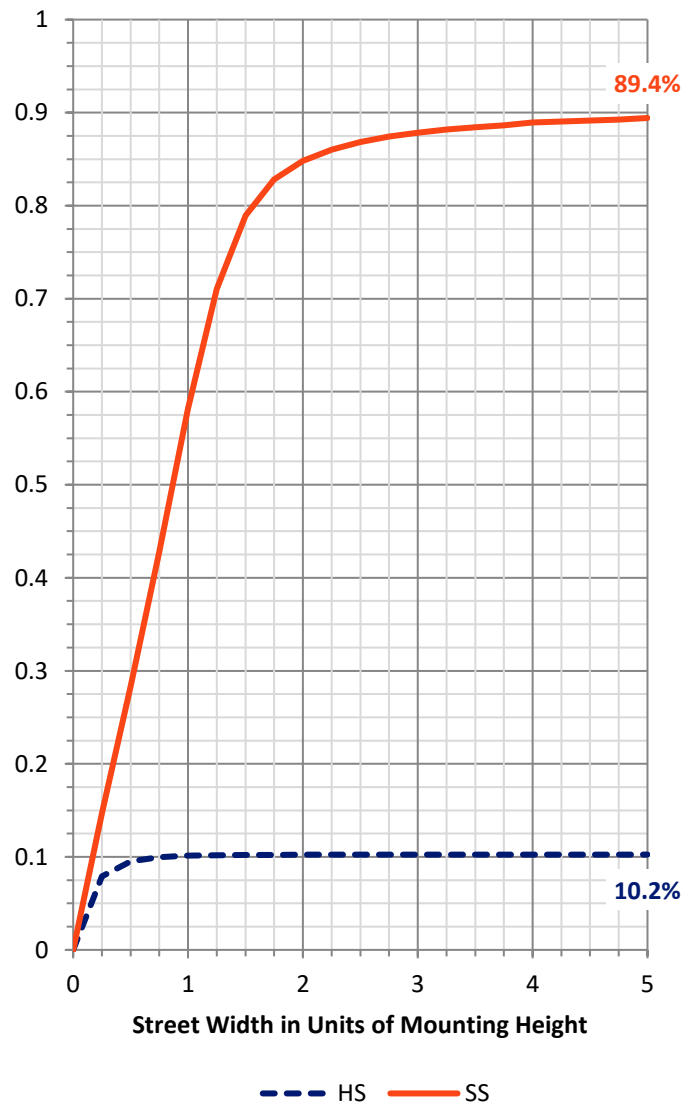
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3818.2	0.0	3818.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	33102.9	0.0	33102.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	36921.0	0.0	36921.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	716.1	1.9
10°-20°	1560.2	4.2
20°-30°	2235.0	6.1
30°-40°	3264.3	8.8
40°-50°	5473.7	14.8
50°-60°	9134.8	24.7
60°-70°	9696.3	26.3
70°-80°	4391.4	11.9
80°-90°	449.3	1.2
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°	36921.0	100.0
0°-180°	36921.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457330

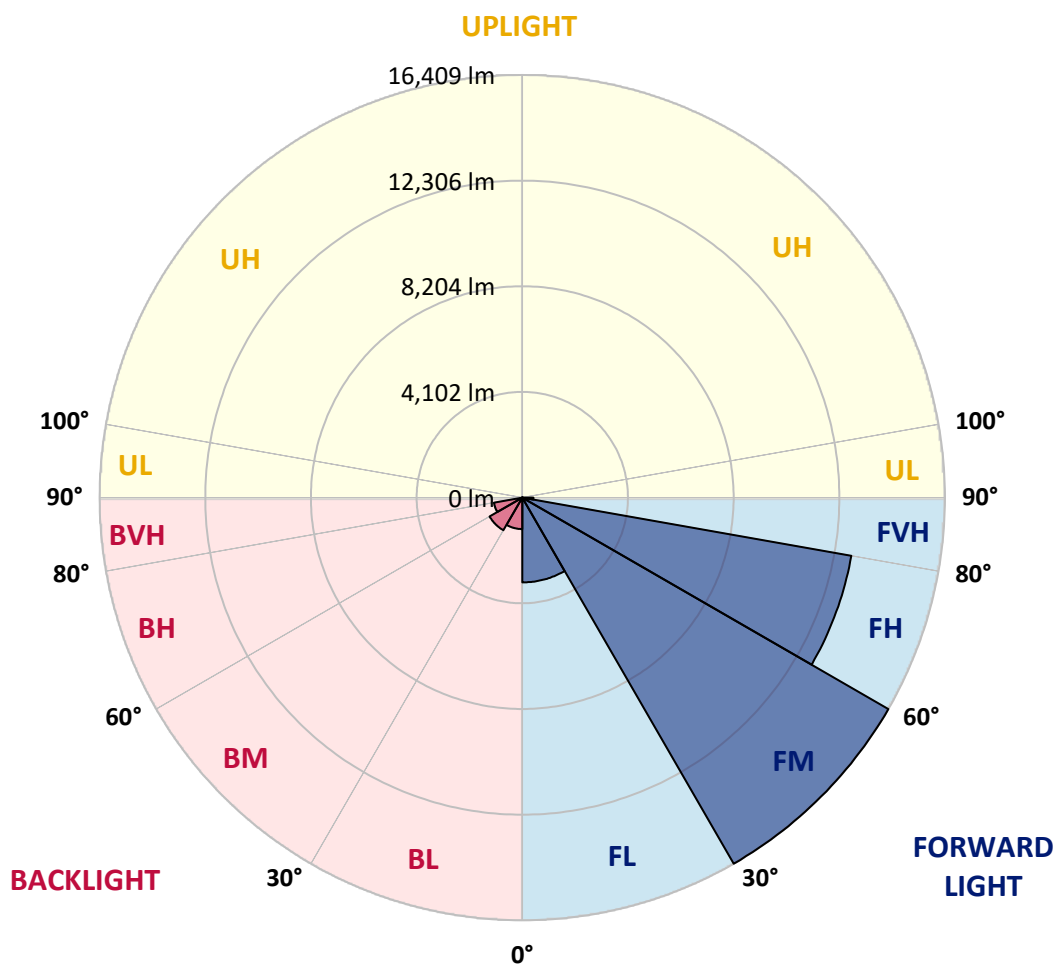
CATALOG NUMBER: GALN-SA8C-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3289.8	8.9			
FM	(30°-60°)	16408.5	44.4			
FH	(60°-80°)	12969.5	35.1			G5
FVH	(80°-90°)	435.0	1.2			G3/500
BL	(0°-30°)	1221.4	3.3	B3/2500		
BM	(30°-60°)	1464.3	4.0	B2/2500		
BH	(60°-80°)	1118.2	3.0	B3/2500		G3/2500
BVH	(80°-90°)	14.3	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



REPORT NUMBER: P457330

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	8755.3	8755.3	8755.3	8755.3	8755.3	8755.3	8755.3	8755.3	8755.3	8755.3	8755.3
2.5°	9226.6	9236.6	9249.1	9266.5	9279.0	9241.6	9189.2	9129.4	9116.9	8989.7	8835.1
5°	8732.9	8747.8	8857.6	8917.4	9052.1	9174.3	9251.6	9261.5	9256.6	9136.9	8890.0
7.5°	8029.7	8072.1	8179.3	8284.0	8535.9	8767.8	9042.1	9234.1	9246.6	9214.2	8907.4
10°	7458.6	7486.0	7540.9	7747.9	7957.4	8311.5	8695.5	9057.1	9087.0	9216.7	8892.5
12.5°	7012.2	7052.1	7119.5	7279.1	7530.9	7865.1	8301.5	8787.7	8850.1	9169.3	8850.1
15°	6700.5	6720.5	6787.8	6944.9	7189.3	7498.5	7939.9	8506.0	8560.8	9106.9	8842.6
17.5°	6553.4	6575.8	6623.2	6747.9	6949.9	7236.7	7668.1	8279.0	8348.9	9067.0	8870.0
20°	6593.3	6613.3	6615.7	6680.6	6817.7	7059.6	7468.6	8067.1	8156.8	9042.1	8914.9
22.5°	6820.2	6822.7	6792.8	6762.9	6810.3	6984.8	7346.4	7932.4	8024.7	9037.1	8967.3
25°	7159.4	7166.9	7117.0	7012.2	6917.5	7007.3	7319.0	7845.1	7927.4	9024.6	8999.7
27.5°	7628.2	7625.7	7610.7	7436.2	7166.9	7107.0	7341.4	7797.8	7867.6	8989.7	9012.2
30°	8284.0	8264.1	8231.7	8034.7	7623.2	7348.9	7436.2	7767.8	7832.7	8939.9	8979.8
32.5°	8929.9	9004.7	8999.7	8812.7	8299.0	7780.3	7633.2	7807.7	7855.1	8907.4	8932.4
35°	9683.0	9680.5	9872.5	9802.7	9201.7	8331.4	7969.8	7939.9	7977.3	8929.9	8909.9
37.5°	10381.2	10446.0	10745.3	10817.6	10269.0	9109.4	8446.1	8224.2	8236.6	9082.0	8964.8
40°	11251.5	11376.2	11822.6	12064.5	11580.7	10264.0	9149.3	8745.4	8747.8	9456.1	9171.8
42.5°	12373.7	12570.7	12987.1	13391.1	13131.7	11630.6	10204.2	9570.8	9565.8	10114.4	9645.6
45°	13737.7	13874.9	14348.7	14989.5	14825.0	13538.2	11740.3	10850.0	10785.2	11194.2	10485.9
47.5°	14914.7	15101.8	15583.0	16313.7	17061.8	15867.3	13575.6	12608.1	12565.7	12912.3	11927.3
50°	15428.4	15593.0	16099.2	17124.1	18937.0	18924.6	16308.7	15174.1	15101.8	15288.8	14156.7
52.5°	14864.9	15019.5	15530.7	16807.4	19819.8	22650.1	20268.7	18393.4	18306.1	18066.8	16819.9
55°	12934.7	13061.9	13817.5	15283.8	19480.7	25133.9	25724.9	22370.9	22031.7	21101.6	19834.8
57.5°	10298.9	10234.1	10702.9	12406.1	17490.7	25966.8	31325.7	27325.8	26719.8	23724.9	22385.8
60°	7136.9	7336.4	7525.9	8648.1	13151.7	24522.9	34809.4	33555.0	32757.1	26305.9	24829.6
62.5°	5246.7	5378.9	5503.6	6022.3	8269.1	19580.4	35425.3	39953.8	39245.6	29046.5	27161.2
65°	4149.5	4159.5	4209.3	4720.5	5448.7	12732.8	32465.3	43562.2	43380.2	31684.8	28106.3
66°	3780.4	3782.9	3860.2	4408.8	4890.1	10368.7	30093.8	43836.5	43936.2	32318.2	27829.5
67.5°	3304.1	3294.2	3406.4	3962.5	4453.7	7476.1	25849.5	42724.3	43315.3	32804.4	26834.6
70°	2561.0	2548.5	2685.7	3324.1	4102.1	4987.4	17181.5	36684.6	37637.2	31809.5	23742.4
72.5°	1705.7	1715.7	1950.1	2623.4	3915.1	4391.4	10336.3	27906.8	29253.4	26268.5	18677.7
75°	995.0	1012.4	1279.3	1950.1	3398.9	4186.9	5850.2	19899.6	20759.9	18139.1	11635.5
77.5°	521.2	528.7	715.7	1286.7	2605.9	3887.7	3897.6	12712.8	13116.8	8815.2	4605.8
80°	276.8	269.3	384.0	775.5	1793.0	3413.9	3162.0	6730.5	6997.3	2618.4	1164.6
82.5°	104.7	114.7	204.5	508.7	1059.8	2451.3	2723.1	2975.0	2882.7	576.0	488.8
85°	19.9	24.9	87.3	301.7	533.6	1024.9	2007.4	1458.8	1351.6	217.0	281.8
87.5°	2.5	5.0	24.9	72.3	77.3	346.6	593.5	404.0	349.1	79.8	117.2
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°	8755.3	8755.3	8755.3	8755.3	8755.3	8755.3	8755.3	8755.3	8755.3	8755.3	8755.3
2.5°	8760.3	8693.0	8468.6	8246.6	8019.7	7815.2	7675.6	7448.6	7391.3	7309.0	7261.6
5°	8742.9	8585.8	8154.4	7683.0	7244.2	6770.4	6408.8	6059.7	5872.6	5777.9	5743.0
7.5°	8693.0	8443.6	7770.3	7032.2	6329.0	5620.8	5004.8	4536.0	4234.3	4027.3	3887.7
10°	8593.2	8249.1	7324.0	6309.0	5246.7	4311.6	3531.1	2937.6	2478.7	2334.1	2339.1
12.5°	8491.0	8032.2	6825.2	5506.1	4189.4	3009.9	2182.0	1713.2	1493.7	1421.4	1406.4
15°	8396.2	7825.2	6336.5	4728.0	3119.6	1950.1	1406.4	1241.9	1182.0	1169.5	1167.0
17.5°	8346.4	7633.2	5815.3	3837.8	2177.0	1324.1	1127.1	1082.3	1064.8	1052.3	1047.3
20°	8304.0	7466.1	5316.5	3004.9	1488.7	1084.8	1009.9	967.6	937.6	925.2	917.7
22.5°	8274.0	7294.0	4800.3	2326.6	1139.6	962.6	895.2	840.4	798.0	783.0	773.0
25°	8229.2	7104.5	4279.2	1700.7	960.1	855.3	778.0	713.2	658.3	630.9	625.9
27.5°	8164.3	6890.1	3708.1	1259.3	857.8	760.6	665.8	586.0	531.2	501.2	503.7
30°	8059.6	6665.6	3137.1	1000.0	775.5	663.3	561.1	483.8	431.4	409.0	406.5
32.5°	7934.9	6393.8	2613.4	857.8	700.7	576.0	468.8	401.5	361.6	344.1	341.6
35°	7817.7	6119.5	2079.7	770.5	623.4	496.2	394.0	336.6	306.7	291.8	294.3
37.5°	7752.9	5875.1	1620.9	700.7	561.1	426.4	339.1	289.3	261.8	249.4	246.9
40°	7795.3	5675.6	1289.2	638.4	491.3	366.6	291.8	249.4	221.9	204.5	204.5
42.5°	7994.8	5588.3	1039.9	578.5	426.4	316.7	254.4	214.5	184.5	167.1	169.6
45°	8603.2	5680.6	870.3	523.7	366.6	274.3	219.4	177.1	149.6	137.2	134.7
47.5°	9613.2	6027.2	753.1	466.3	314.2	234.4	184.5	147.1	119.7	109.7	107.2
50°	11378.7	6742.9	665.8	409.0	266.8	199.5	152.1	117.2	94.8	84.8	84.8
52.5°	13807.5	8304.0	603.5	344.1	224.4	169.6	124.7	94.8	74.8	67.3	64.8
55°	16346.1	9949.8	571.1	289.3	187.0	139.6	99.7	74.8	57.4	49.9	47.4
57.5°	18787.4	11241.5	533.6	234.4	149.6	107.2	77.3	57.4	39.9	34.9	32.4
60°	21129.0	12286.4	453.9	187.0	117.2	77.3	57.4	39.9	27.4	22.4	22.4
62.5°	23223.7	12894.8	356.6	149.6	89.8	54.9	37.4	29.9	19.9	15.0	15.0
65°	23468.1	12104.4	269.3	114.7	64.8	34.9	22.4	22.4	15.0	10.0	10.0
66°	22976.8	11433.5	236.9	104.7	57.4	29.9	19.9	17.5	12.5	7.5	7.5
67.5°	21879.6	10288.9	204.5	89.8	47.4	22.4	15.0	15.0	10.0	5.0	5.0
70°	18904.6	8403.7	162.1	67.3	34.9	17.5	10.0	10.0	7.5	5.0	5.0
72.5°	14408.5	6274.1	132.2	49.9	24.9	12.5	7.5	7.5	7.5	5.0	5.0
75°	8690.5	3378.9	102.2	37.4	22.4	10.0	5.0	7.5	10.0	7.5	5.0
77.5°	3201.9	1149.6	79.8	29.9	17.5	10.0	5.0	5.0	10.0	7.5	7.5
80°	785.5	299.2	57.4	24.9	17.5	10.0	5.0	5.0	10.0	10.0	10.0
82.5°	364.1	127.2	39.9	22.4	17.5	10.0	5.0	5.0	7.5	10.0	10.0
85°	209.5	59.8	32.4	24.9	17.5	10.0	5.0	5.0	7.5	10.0	10.0
87.5°	84.8	29.9	29.9	24.9	19.9	12.5	5.0	5.0	5.0	7.5	7.5
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)