

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: P452466

Luminaire Tested: **GALN-SA3B-830-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452466
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9694 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 121
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

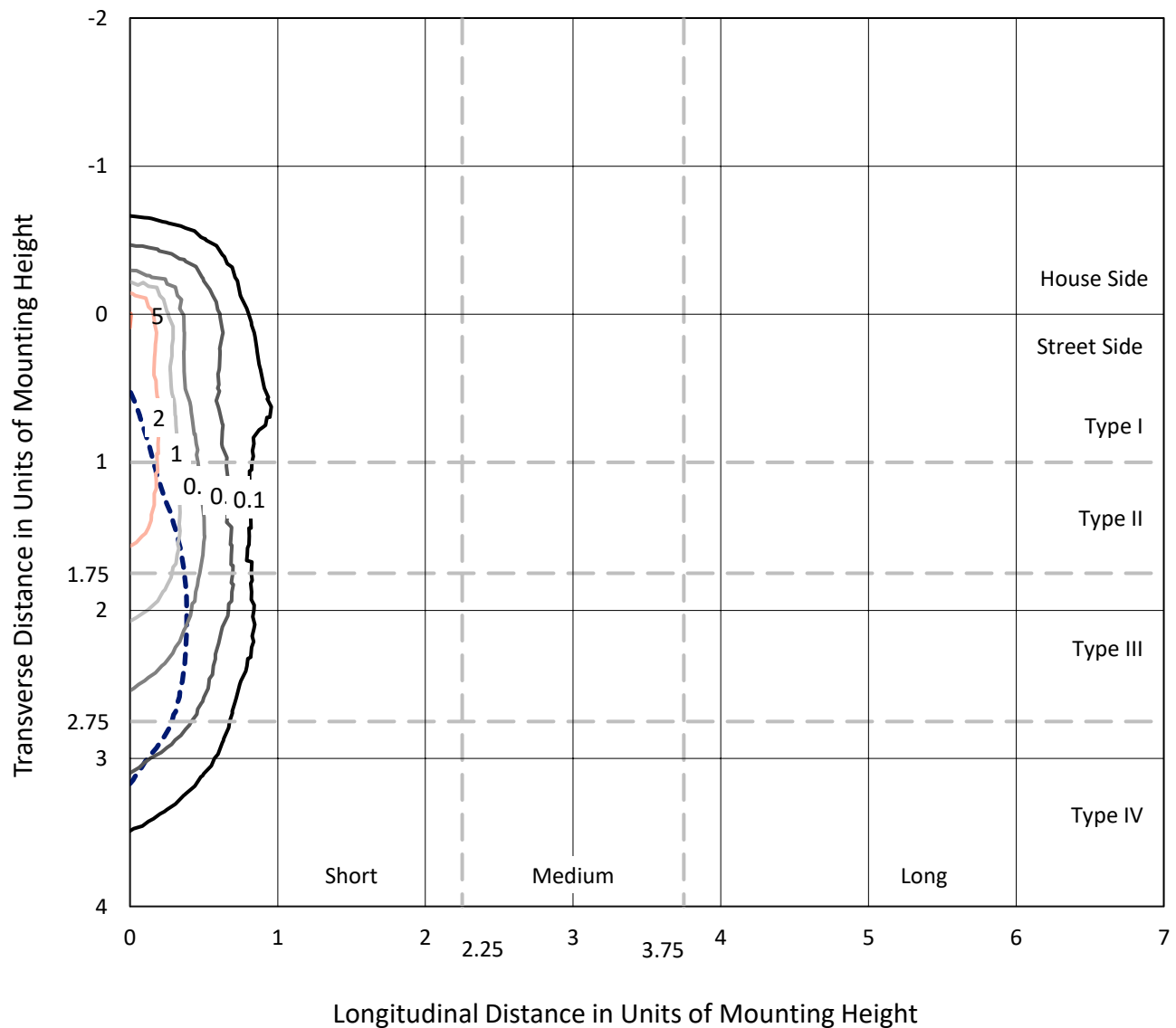


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Iso-Footcandle Lines of Horizontal Illumination

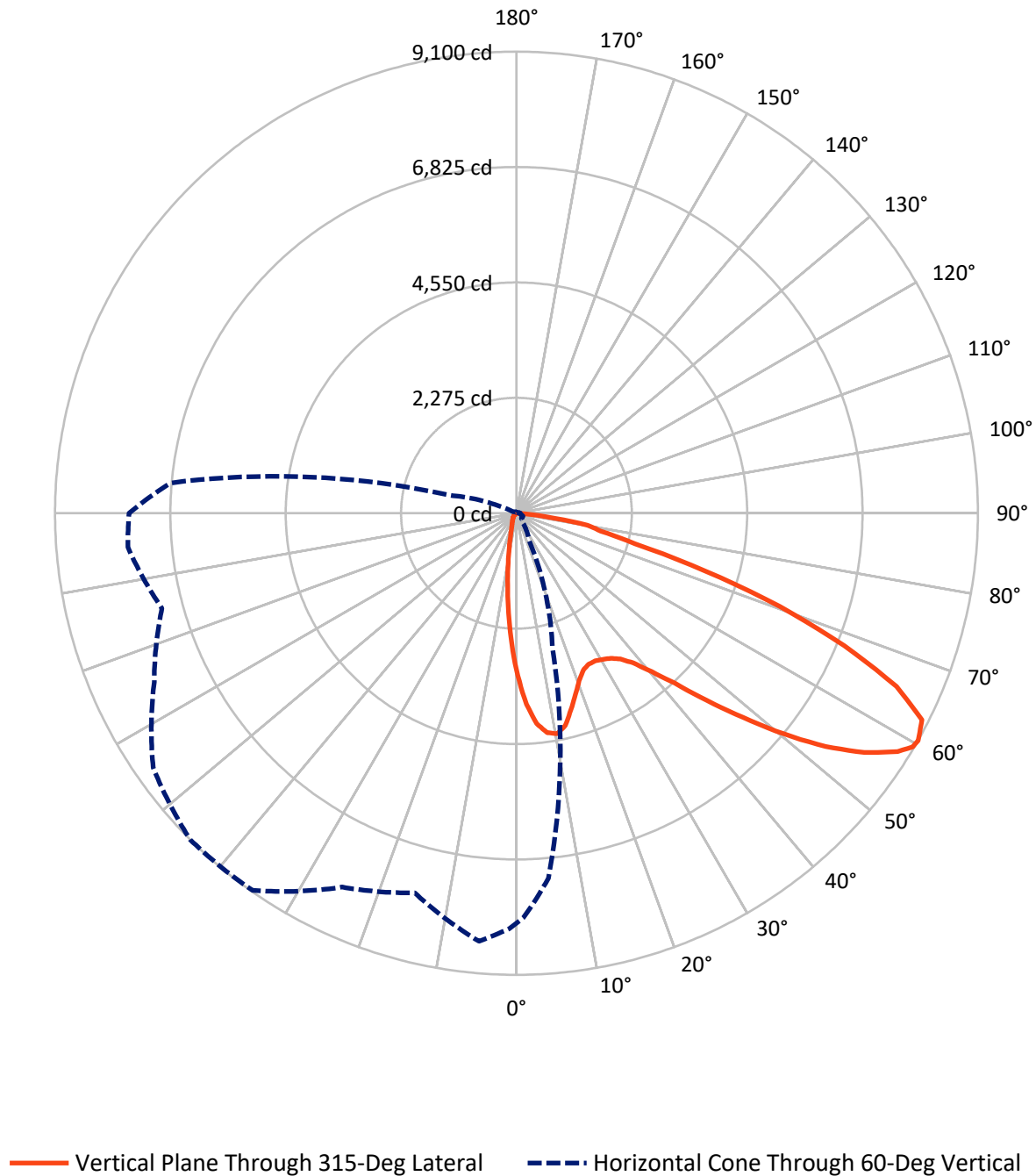
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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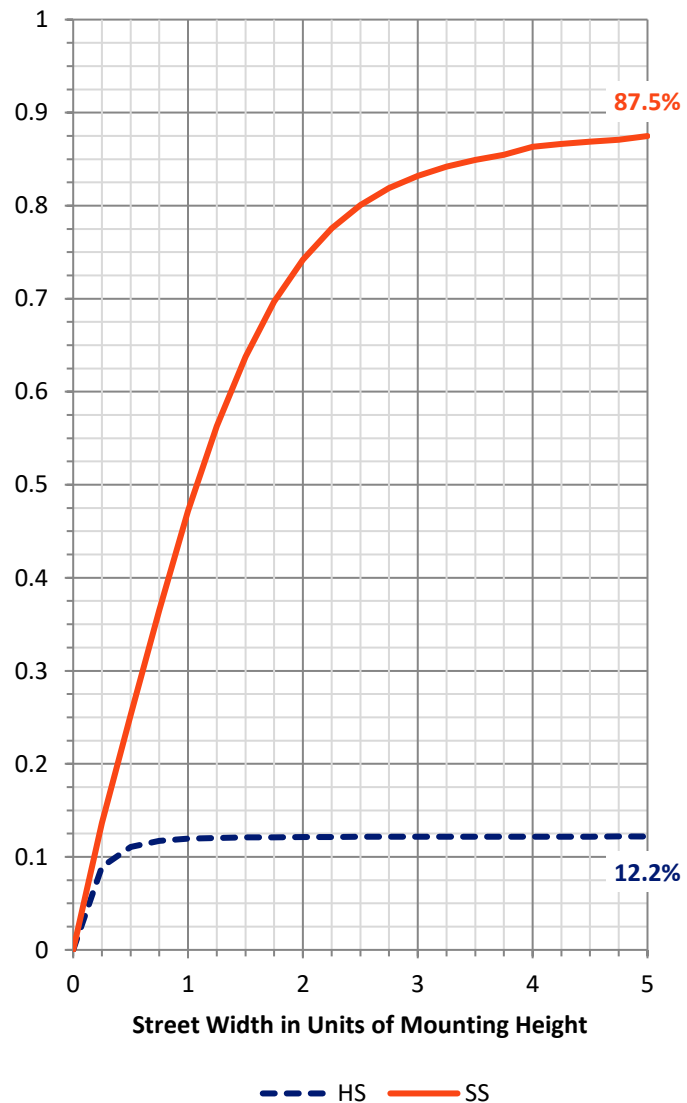
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1195.7	0.0	1195.7
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	8498.3	0.0	8498.3
	% Fixture	87.7	0.0	87.7
Total	Lumens	9694.0	0.0	9694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.3	2.5
10°-20°	473.3	4.9
20°-30°	693.9	7.2
30°-40°	1032.0	10.6
40°-50°	1501.9	15.5
50°-60°	2165.9	22.3
60°-70°	2382.2	24.6
70°-80°	1067.0	11.0
80°-90°	139.4	1.4
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°	9694.0	100.0
0°-180°	9694.0	100.0

Coefficient of Utilization



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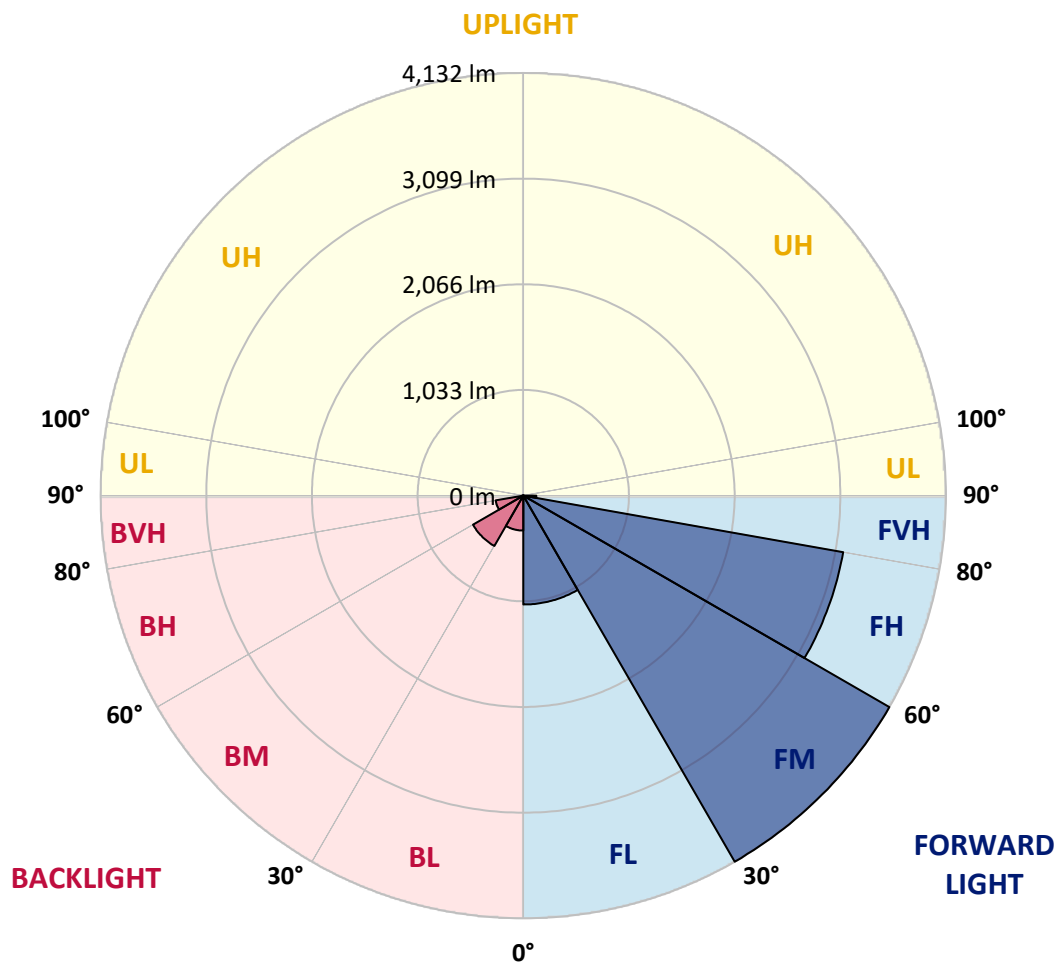
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1063.9	11.0			
FM	(30°-60°)	4131.9	42.6			
FH	(60°-80°)	3175.1	32.8			G2/5000
FVH	(80°-90°)	127.5	1.3			G2/225
BL	(0°-30°)	341.6	3.5	B1/500		
BM	(30°-60°)	567.9	5.9	B1/1000		
BH	(60°-80°)	274.2	2.8	B1/500		G1/500
BVH	(80°-90°)	11.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0
2.5°	3522.3	3506.9	3471.5	3363.9	3270.3	3148.0	3024.2	2926.9	2867.2	2757.4	2707.3
5°	3412.5	3419.9	3317.5	3096.4	2850.3	2682.3	2498.8	2352.9	2192.3	2090.6	1983.7
7.5°	3125.9	3111.2	2999.9	2691.9	2392.7	2149.5	1917.4	1728.7	1610.1	1515.0	1435.5
10°	2880.5	2869.5	2727.2	2330.8	2009.5	1827.5	1670.5	1505.5	1378.0	1238.7	1127.4
12.5°	2726.5	2701.4	2537.9	2123.7	1862.1	1692.6	1521.7	1350.0	1173.9	1033.1	898.3
15°	2674.9	2638.8	2456.8	2052.2	1767.8	1552.6	1338.2	1140.7	938.1	782.6	680.9
17.5°	2768.5	2708.8	2515.0	2039.7	1655.1	1369.9	1106.1	848.9	638.1	519.5	456.9
20°	2982.9	2914.4	2662.4	2027.2	1529.8	1165.0	840.8	599.8	441.4	376.6	341.9
22.5°	3301.3	3207.0	2880.5	2047.1	1414.1	965.3	607.2	423.7	350.8	310.2	285.9
25°	3683.7	3604.9	3156.8	2117.8	1322.7	808.4	469.4	346.3	295.5	270.4	252.0
27.5°	4103.0	3977.0	3514.2	2202.6	1239.5	686.8	411.9	309.5	263.1	240.2	230.6
30°	4401.5	4303.4	3813.4	2261.5	1135.6	595.4	376.6	305.1	263.8	236.5	218.9
32.5°	4696.2	4570.9	4064.0	2288.8	1059.7	532.0	325.7	266.0	231.4	217.4	199.7
35°	5011.6	4880.4	4313.8	2274.0	1002.9	490.0	295.5	237.3	198.2	174.6	157.0
37.5°	5330.7	5192.1	4562.1	2221.0	967.5	473.1	271.9	225.5	187.2	162.9	143.7
40°	5709.4	5524.5	4795.0	2177.5	930.7	464.2	256.4	218.1	179.1	153.3	134.1
42.5°	6018.9	5842.8	5015.3	2154.7	905.6	443.6	256.4	212.2	173.9	145.2	125.3
45°	6312.2	6129.5	5253.3	2173.1	895.3	417.8	259.4	211.5	170.2	139.3	119.4
47.5°	6557.6	6399.2	5497.9	2242.4	882.1	389.8	243.9	221.8	168.0	134.1	113.5
50°	6847.2	6693.9	5821.4	2382.4	858.5	361.8	224.8	238.8	167.3	129.7	108.3
52.5°	7255.4	7089.6	6268.0	2541.5	820.9	319.1	207.1	236.5	164.3	122.3	103.2
55°	7754.3	7620.2	6785.3	2732.4	769.3	271.2	179.1	210.0	155.5	109.8	94.3
57.5°	8074.1	7959.9	7172.9	2814.9	690.5	221.8	157.7	176.1	142.2	98.0	84.0
59°	8111.7	8008.5	7254.0	2787.7	638.9	202.6	147.4	151.1	138.5	91.4	78.1
60°	8080.0	7973.2	7221.5	2734.6	591.0	189.4	138.5	134.1	139.3	87.7	73.7
62.5°	7876.6	7693.9	6906.9	2465.6	516.6	173.9	123.1	109.8	123.1	78.8	65.6
65°	7483.9	7209.7	6284.2	2086.9	487.1	165.1	104.6	92.1	93.6	69.3	56.7
67.5°	6797.8	6452.2	5455.2	1695.6	474.6	165.8	88.4	82.5	72.2	59.0	50.1
70°	5713.1	5368.3	4377.1	1394.9	468.7	165.8	75.2	70.7	60.4	49.4	43.5
72.5°	4048.5	3677.1	2952.7	1095.8	422.2	165.1	64.1	64.1	49.4	41.3	35.4
75°	2287.3	2290.3	1856.2	775.2	350.8	136.3	51.6	50.8	36.1	31.7	26.5
77.5°	1333.0	1309.5	1251.2	333.1	162.9	61.9	36.1	30.9	25.1	22.8	19.2
80°	685.3	563.7	549.0	120.9	58.2	39.1	25.1	17.7	16.2	14.7	13.3
82.5°	202.6	203.4	181.3	48.6	32.4	25.8	12.5	9.6	8.8	8.1	8.1
85°	14.0	8.8	10.3	14.7	19.9	10.3	0.7	2.2	2.2	2.9	3.7
87.5°	1.5	0.7	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0
2.5°	2652.1	2684.5	2624.1	2625.5	2575.4	2591.6	2532.7	2551.9	2517.2	2543.8	2621.9
5°	1995.5	2002.9	1954.2	1938.8	1946.1	1976.3	1988.1	1934.3	1957.2	1912.2	1909.3
7.5°	1406.0	1414.8	1386.8	1383.1	1436.2	1423.7	1446.5	1391.3	1338.9	1361.8	1319.8
10°	1092.1	1055.2	997.8	981.5	971.2	977.9	977.9	927.7	920.4	900.5	930.7
12.5°	862.2	817.2	762.7	689.0	670.6	669.1	641.8	597.6	583.6	566.7	591.7
15°	626.4	607.9	562.2	521.0	479.0	470.9	426.7	390.6	342.7	336.0	333.8
17.5°	440.7	413.4	412.7	389.1	364.8	348.5	307.3	266.0	247.6	245.4	245.4
20°	330.1	320.5	305.1	302.1	294.8	276.3	239.5	217.4	208.5	209.3	212.2
22.5°	277.8	271.2	257.2	250.5	247.6	231.4	204.1	189.4	185.0	185.0	185.7
25°	248.3	242.4	227.0	216.6	213.0	201.2	179.8	168.7	165.1	165.1	165.1
27.5°	226.2	218.9	202.6	193.8	187.2	173.9	160.6	149.6	145.9	145.9	146.6
30°	210.8	202.6	187.9	176.1	165.8	154.0	143.0	133.4	129.0	128.2	129.0
32.5°	190.1	182.7	168.0	160.6	148.9	134.9	126.0	117.2	112.7	113.5	112.7
35°	148.1	145.9	135.6	137.8	131.2	119.4	111.3	101.7	96.5	95.8	97.3
37.5°	134.9	126.0	114.2	115.0	112.7	108.3	95.1	84.7	81.1	81.1	81.8
40°	124.5	115.7	102.4	95.8	96.5	96.5	82.5	71.5	67.8	67.1	68.5
42.5°	115.7	106.8	92.1	81.1	78.1	81.8	70.0	59.0	55.3	53.8	55.3
45°	109.8	100.2	83.3	70.7	61.9	66.3	57.5	48.6	44.2	44.2	43.5
47.5°	103.9	95.1	76.6	61.2	51.6	49.4	47.2	39.1	34.6	33.9	34.6
50°	98.7	89.9	69.3	53.1	43.5	38.3	38.3	30.9	28.0	26.5	27.3
52.5°	93.6	84.0	62.6	47.2	37.6	30.9	27.3	25.1	22.8	22.1	22.8
55°	86.2	76.6	56.0	40.5	32.4	25.8	21.4	20.6	19.2	17.7	19.2
57.5°	77.4	68.5	49.4	34.6	25.8	19.9	17.7	16.9	15.5	14.7	14.7
59°	72.2	64.1	45.7	30.2	22.8	17.7	16.2	15.5	14.0	12.5	13.3
60°	69.3	62.6	43.5	28.0	20.6	16.2	14.7	14.0	12.5	11.8	12.5
62.5°	61.2	56.0	38.3	22.8	16.2	11.8	10.3	11.1	10.3	9.6	10.3
65°	53.8	49.4	32.4	17.7	12.5	8.1	7.4	9.6	8.8	8.1	8.8
67.5°	47.9	42.7	27.3	13.3	8.8	4.4	5.2	8.1	8.1	7.4	8.1
70°	41.3	36.8	22.1	9.6	4.4	2.2	3.7	5.9	7.4	6.6	7.4
72.5°	33.9	28.7	16.9	6.6	2.2	0.0	2.2	5.2	7.4	6.6	7.4
75°	26.5	21.4	12.5	3.7	0.0	0.0	0.7	4.4	7.4	6.6	7.4
77.5°	19.2	15.5	7.4	0.7	0.0	0.0	0.7	4.4	7.4	6.6	7.4
80°	12.5	11.1	2.9	0.0	0.0	0.0	0.7	4.4	7.4	7.4	8.1
82.5°	8.1	5.9	0.0	0.0	0.0	0.0	1.5	5.9	8.1	8.8	8.8
85°	3.7	0.0	0.0	0.0	0.0	0.0	2.9	7.4	9.6	9.6	9.6
87.5°	0.0	0.0	0.0	0.0	0.0	1.5	5.2	8.8	11.1	11.1	11.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0
2.5°	2635.1	2681.5	2747.1	2848.1	2929.9	3058.8	3157.6	3292.4	3428.8	3470.0	3534.1
5°	1939.5	1999.2	2148.0	2283.6	2369.1	2641.8	2814.2	3086.1	3330.0	3447.2	3574.7
7.5°	1347.0	1417.8	1531.3	1720.6	1900.4	2122.2	2400.8	2711.8	3069.2	3236.4	3416.2
10°	945.4	1033.9	1193.8	1349.2	1575.5	1786.2	2061.1	2404.5	2798.7	2996.2	3221.7
12.5°	596.9	675.7	887.2	1061.9	1344.1	1588.7	1842.2	2153.2	2610.1	2812.7	3049.3
15°	341.2	407.5	506.2	730.3	1043.4	1366.9	1683.1	2044.1	2513.5	2763.3	3019.0
17.5°	254.2	271.9	316.1	442.9	728.0	1106.1	1536.4	2011.0	2579.1	2872.4	3164.2
20°	213.7	225.5	246.1	296.2	464.2	851.8	1393.5	2016.9	2791.3	3159.8	3436.9
22.5°	191.6	199.0	215.9	248.3	316.9	620.5	1226.2	2051.5	3048.5	3512.8	3832.6
25°	168.0	177.6	192.3	220.3	263.8	430.3	1061.1	2128.9	3408.9	3960.8	4261.4
27.5°	149.6	158.4	173.2	199.0	231.4	328.7	868.8	2195.2	3789.1	4411.8	4657.9
30°	131.2	140.0	154.7	175.4	204.9	266.0	661.7	2234.3	4158.3	4750.0	4939.4
32.5°	115.7	123.1	137.1	155.5	179.8	225.5	521.7	2193.7	4440.5	5057.3	5184.0
35°	100.2	109.1	120.9	137.8	159.2	192.3	434.0	2053.7	4682.9	5373.4	5419.1
37.5°	84.0	94.3	106.8	122.3	139.3	176.9	348.5	1899.0	4942.3	5767.7	5692.5
40°	70.7	80.3	92.1	109.1	124.5	162.1	268.2	1733.9	5222.4	6137.6	5990.9
42.5°	57.5	67.8	81.8	97.3	123.1	141.5	207.8	1562.9	5473.6	6459.6	6260.6
45°	45.7	54.5	69.3	89.2	122.3	121.6	160.6	1394.2	5663.0	6689.5	6461.8
47.5°	36.1	43.5	58.2	87.0	112.7	103.2	129.0	1289.6	5862.0	6896.6	6615.8
50°	28.7	36.1	50.1	90.6	98.7	88.4	108.3	1306.5	6054.3	7001.9	6679.2
52.5°	24.3	31.7	43.5	71.5	75.9	77.4	95.1	1384.6	6302.6	7114.7	6805.2
55°	21.4	28.0	36.8	50.1	59.0	69.3	87.0	1441.4	6635.0	7356.4	7083.0
57.5°	16.9	24.3	33.2	42.7	48.6	60.4	80.3	1445.8	6935.6	7666.6	7452.2
59°	15.5	22.1	30.9	40.5	43.5	54.5	75.9	1408.2	6946.7	7713.0	7621.7
60°	14.0	21.4	29.5	37.6	41.3	51.6	72.2	1364.7	6846.5	7639.4	7691.7
62.5°	11.8	18.4	25.8	30.2	35.4	42.7	62.6	1207.0	6360.9	7305.5	7562.0
65°	10.3	16.2	22.1	25.1	29.5	36.8	55.3	966.1	5824.4	6853.1	7190.6
67.5°	9.6	14.7	19.2	21.4	25.8	33.9	49.4	682.4	5129.5	6279.1	6632.8
70°	8.8	14.0	16.9	19.9	22.8	28.7	42.0	397.9	3951.2	5272.5	5646.1
72.5°	8.8	13.3	14.7	16.9	19.9	25.8	39.1	215.2	2701.4	4022.0	4504.6
75°	8.8	12.5	13.3	14.7	17.7	23.6	34.6	112.7	1746.4	2794.3	3448.7
77.5°	8.8	11.8	13.3	14.0	16.9	20.6	30.2	70.7	1163.6	1957.2	2330.8
80°	9.6	11.8	12.5	14.0	16.2	19.2	25.1	47.2	683.8	1177.6	1418.5
82.5°	10.3	11.8	13.3	14.7	16.9	18.4	22.1	29.5	315.4	778.9	881.3
85°	11.1	12.5	14.0	15.5	17.7	18.4	20.6	21.4	51.6	351.5	475.3
87.5°	11.8	13.3	14.7	16.2	19.2	19.2	19.2	19.2	17.7	37.6	95.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0
2.5°	3615.2	3698.5	3756.7	3771.4	3729.4	3710.3	3657.2	3574.7	3524.6	3522.3
5°	3809.7	4005.0	4140.6	4163.4	4082.4	3945.3	3782.5	3572.5	3449.4	3412.5
7.5°	3776.6	4118.5	4336.6	4368.3	4232.0	3970.4	3655.0	3316.7	3182.6	3125.9
10°	3640.2	4057.3	4369.0	4419.1	4237.1	3868.7	3467.8	3090.5	2924.0	2880.5
12.5°	3523.8	3945.3	4222.4	4291.7	4153.9	3786.2	3355.8	2945.4	2767.0	2726.5
15°	3473.0	3812.7	3982.2	4017.5	3994.7	3734.6	3344.0	2923.2	2719.1	2674.9
17.5°	3523.8	3699.9	3721.3	3757.4	3808.3	3729.4	3457.5	3043.4	2823.0	2768.5
20°	3657.2	3601.9	3513.5	3529.0	3645.4	3750.8	3659.4	3309.4	3041.2	2982.9
22.5°	3884.2	3577.6	3377.2	3363.9	3511.3	3822.3	3955.6	3669.7	3358.8	3301.3
25°	4162.7	3638.8	3327.1	3298.3	3459.0	3926.9	4277.7	4111.1	3771.4	3683.7
27.5°	4466.3	3765.5	3327.1	3299.1	3454.5	4019.7	4553.3	4501.7	4198.8	4103.0
30°	4632.8	3870.2	3375.0	3343.3	3509.1	4073.5	4700.6	4848.7	4520.1	4401.5
32.5°	4781.7	4015.3	3468.5	3408.9	3623.3	4153.1	4832.5	5143.5	4775.8	4696.2
35°	4918.8	4170.8	3597.5	3528.2	3773.6	4262.2	4978.4	5453.0	5131.7	5011.6
37.5°	5069.8	4351.3	3798.7	3739.7	4024.9	4474.4	5151.6	5859.8	5481.7	5330.7
40°	5234.1	4560.6	4129.5	4104.5	4424.3	4714.6	5370.5	6293.8	5881.1	5709.4
42.5°	5401.4	4801.6	4534.8	4576.1	4876.7	5051.4	5595.2	6627.6	6208.3	6018.9
45°	5553.2	5109.6	5061.7	5265.8	5404.4	5380.0	5761.8	6862.7	6493.5	6312.2
47.5°	5744.8	5558.4	5699.1	6013.8	6017.5	5737.4	5887.8	7055.0	6738.9	6557.6
50°	5959.2	6088.2	6522.2	6842.8	6756.6	6088.9	6035.1	7282.7	6992.4	6847.2
52.5°	6207.6	6681.4	7282.7	7638.6	7437.4	6472.1	6280.5	7528.8	7394.7	7255.4
55°	6496.4	7086.0	8041.0	8324.7	8122.0	6948.2	6653.4	7862.6	7849.4	7754.3
57.5°	6822.9	7513.3	8480.2	8864.1	8683.5	7506.7	7174.4	8177.3	8127.2	8074.1
59°	7080.8	7732.9	8674.0	9071.9	8962.8	7898.0	7524.4	8373.3	8191.3	8111.7
60°	7237.0	7881.8	8745.4	9099.9	9074.8	8130.9	7746.2	8469.1	8190.6	8080.0
62.5°	7700.5	8141.9	8718.2	8975.3	9073.3	8577.4	8396.9	8574.5	8038.8	7876.6
65°	7865.6	8055.7	8266.5	8234.8	8318.8	8554.6	8812.5	8458.8	7714.5	7483.9
67.5°	7544.3	7110.3	7184.7	6973.2	6931.9	7605.5	8643.7	7892.8	7080.1	6797.8
70°	6359.4	5447.1	5409.5	5506.8	5240.0	6157.5	7761.7	6803.0	6032.9	5713.1
72.5°	5005.7	3849.5	3532.7	3890.8	3882.7	4697.7	6447.8	4827.4	4075.7	4048.5
75°	3936.5	2680.1	2352.2	2410.4	2522.4	3400.8	5135.4	3065.5	2509.9	2287.3
77.5°	2642.5	1899.0	1771.5	1700.0	1820.9	2183.4	3249.0	1662.4	1407.5	1333.0
80°	1523.2	1379.5	1566.6	1422.2	1487.0	1375.8	1616.0	762.7	633.0	685.3
82.5°	991.1	785.5	837.1	621.9	850.4	857.7	518.8	225.5	190.9	202.6
85°	619.7	368.4	207.1	147.4	293.3	539.4	162.1	14.0	16.2	14.0
87.5°	160.6	61.2	25.8	38.3	47.2	42.0	37.6	2.2	0.7	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)