

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: P957019

Luminaire Tested: **GALN-SB9C-730-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52060 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 449.8
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

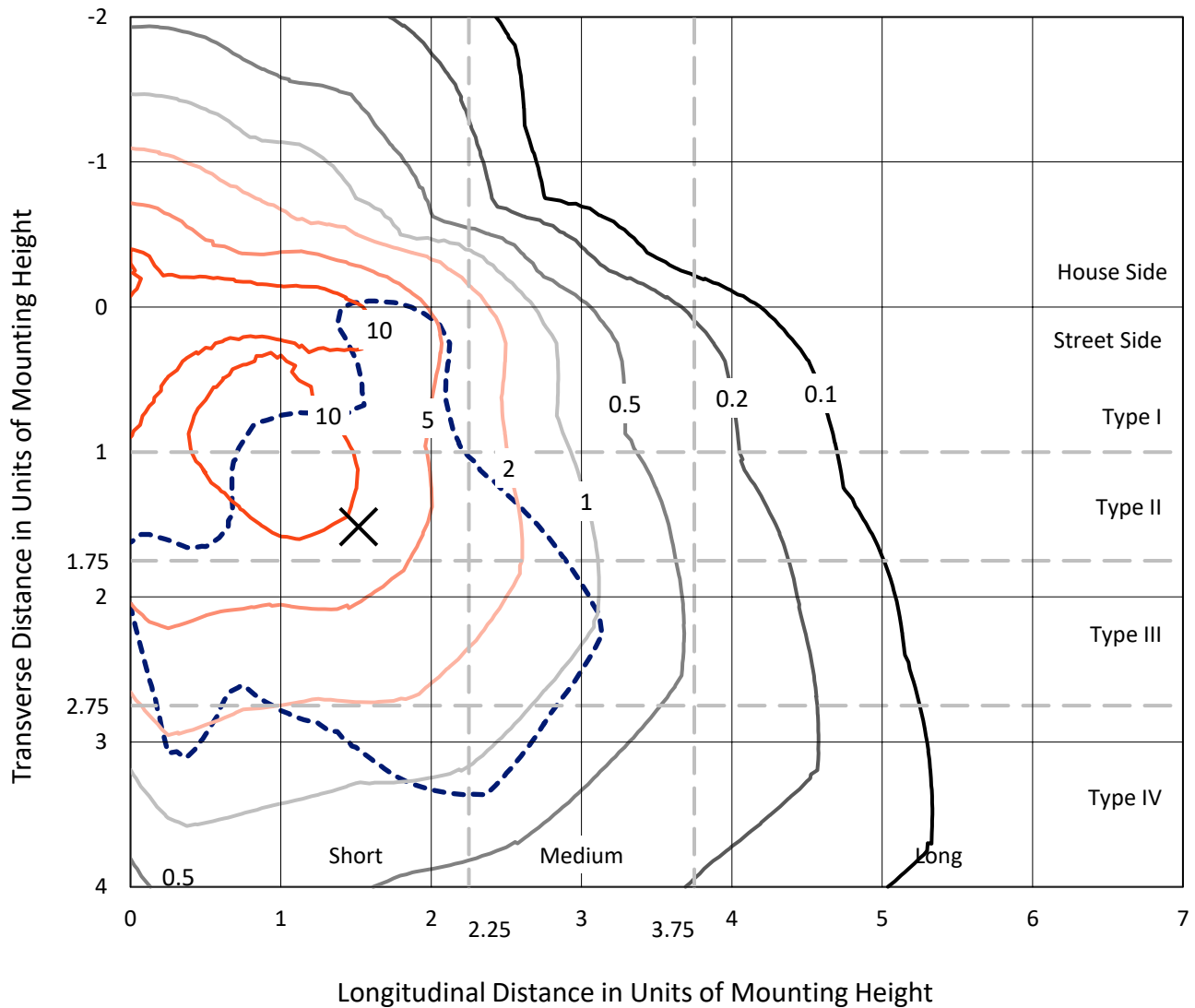


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Iso-Footcandle Lines of Horizontal Illumination

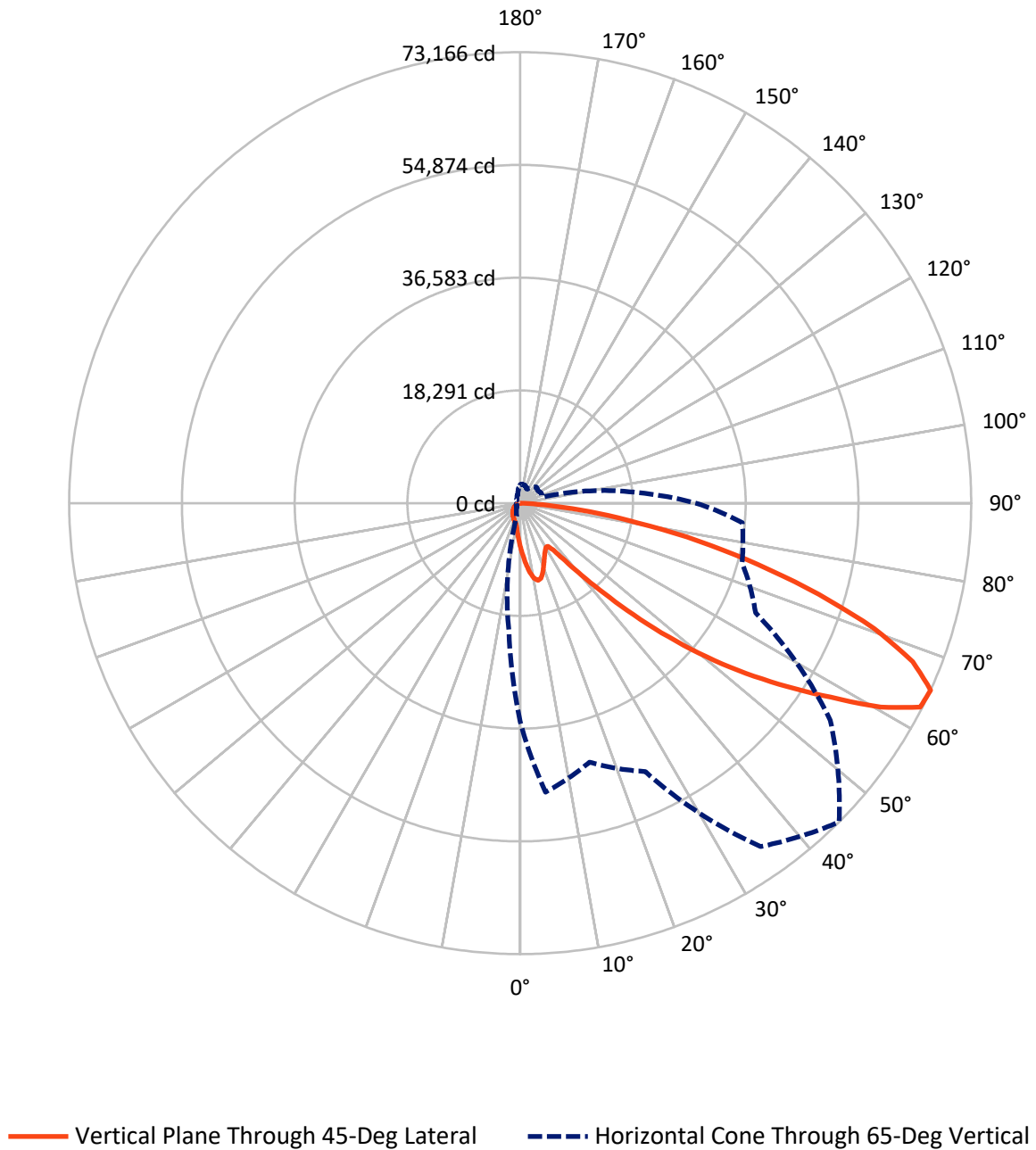
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 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	10347.9	0.0	10347.9
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	41712.1	0.0	41712.1
	% Fixture	80.1	0.0	80.1
Total	Lumens	52060.0	0.0	52060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	709.7	1.4
10°-20°	2127.5	4.1
20°-30°	3134.3	6.0
30°-40°	4026.7	7.7
40°-50°	6512.3	12.5
50°-60°	11420.0	21.9
60°-70°	14289.5	27.4
70°-80°	8350.1	16.0
80°-90°	1489.8	2.9
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°	52060.0	100.0
0°-180°	52060.0	100.0

Coefficient of Utilization



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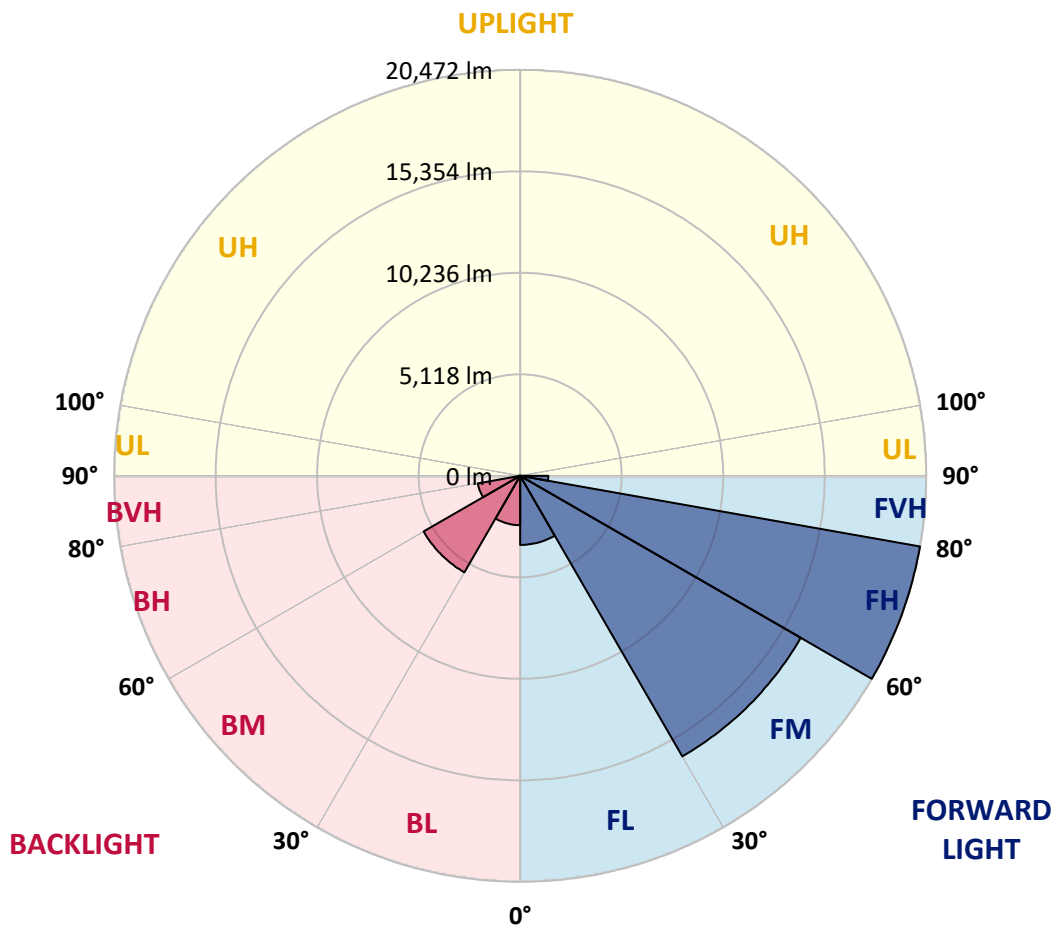
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3483.4	6.7			
FM	(30°-60°)	16337.1	31.4			
FH	(60°-80°)	20471.6	39.3			G5
FVH	(80°-90°)	1420.0	2.7			G5
BL	(0°-30°)	2488.1	4.8	B3/2500		
BM	(30°-60°)	5622.0	10.8	B4/8500		
BH	(60°-80°)	2168.1	4.2	B3/2500		G3/2500
BVH	(80°-90°)	69.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7208.6	7208.6	7208.6	7208.6	7208.6	7208.6	7208.6	7208.6	7208.6	7208.6	7208.6
2.5°	8076.6	8137.5	8273.8	8345.5	8456.7	8463.9	8463.9	8367.0	8363.5	8166.2	8144.7
5°	9026.9	9170.4	9493.2	9826.7	9898.4	9916.4	9880.5	9686.8	9543.4	9159.6	9077.2
7.5°	9970.2	10246.3	10737.7	11182.4	11325.8	11325.8	11239.7	10924.1	10630.1	10074.2	9866.2
10°	10752.0	11099.9	11766.9	12265.5	12430.4	12394.6	12218.8	11820.7	11415.5	10741.2	10468.7
12.5°	11268.4	11659.4	12391.0	12792.7	12961.2	12868.0	12667.1	12279.8	11853.0	11142.9	10834.5
15°	11526.7	11935.5	12570.3	12781.9	12735.3	12638.4	12613.3	12426.8	12104.1	11440.6	11103.5
17.5°	11637.8	12018.0	12459.1	12326.4	11931.9	11856.6	12107.7	12344.4	12265.5	11698.8	11383.2
20°	11741.8	12061.0	12193.7	11605.6	10917.0	10848.8	11329.4	12003.6	12347.9	11939.1	11648.6
22.5°	11885.3	12082.5	11810.0	10845.2	10102.9	9945.1	10475.8	11490.8	12373.0	12243.9	11953.4
25°	12082.5	12136.3	11386.8	10124.4	9378.4	9220.6	9715.5	10920.6	12330.0	12573.9	12326.4
27.5°	12319.3	12208.1	10981.5	9521.9	8801.0	8654.0	9148.9	10371.8	12208.1	12903.8	12728.1
30°	12627.7	12301.3	10579.9	9055.6	8388.6	8281.0	8758.0	9898.4	12057.4	13323.4	13226.6
32.5°	12939.7	12340.8	10206.9	8783.1	8295.3	8334.8	8725.7	9643.8	11892.5	13725.1	13771.7
35°	13276.8	12466.3	10024.0	9052.0	9073.6	9417.9	9579.2	9880.5	11867.4	14270.2	14453.2
37.5°	13735.9	12746.0	10242.7	10389.8	11135.7	11849.4	11716.7	11038.9	12157.9	15084.4	15425.1
40°	14395.8	13237.4	11196.7	12667.1	14198.5	15356.9	14851.2	13144.1	13047.3	16257.1	16766.4
42.5°	15356.9	14019.2	12889.5	15450.2	18046.7	19954.7	18599.0	15859.0	14603.8	17932.0	18581.1
45°	16777.1	15285.2	14937.3	18387.4	22791.5	25796.9	22978.0	18753.2	16784.3	20467.5	20976.8
47.5°	18746.1	17146.5	16856.0	21482.5	28558.4	32446.1	27834.0	21435.9	19266.1	23924.8	24043.2
50°	21360.5	19653.4	18674.3	24868.0	34881.2	39224.3	32686.4	24025.2	22110.1	28149.6	28013.3
52.5°	24810.6	23150.1	20793.9	28092.2	41383.4	45859.2	37560.3	26299.0	25639.1	33052.2	32772.4
55°	29516.0	28411.4	23691.7	31169.3	47881.9	52533.4	42244.1	28443.7	30301.4	38876.5	37183.7
57.5°	35354.6	36143.6	27869.8	34737.8	53724.1	59412.1	46949.4	31441.9	36355.2	45389.4	39744.4
60°	39120.3	46425.8	35871.1	40013.4	60362.5	67191.0	53397.8	37144.2	42717.5	47724.1	39256.6
62.5°	38209.4	49696.6	45453.9	46748.6	66466.6	72846.8	59717.0	42871.7	43915.3	44284.7	35498.1
65°	35415.6	47057.0	43499.3	48057.6	68012.3	73165.9	61406.2	42132.9	37251.8	36154.4	28533.3
67.5°	31571.0	43926.1	38855.0	44586.0	65218.5	68704.5	58260.9	37269.8	28788.0	27131.0	20700.6
70°	27421.5	40461.7	35806.5	40691.2	59892.7	60929.2	52913.6	32779.6	21174.0	18322.9	13284.0
72.5°	23483.7	36853.7	33719.2	36699.5	52788.1	50643.4	45952.4	28809.5	15417.9	13215.8	9443.0
75°	19456.2	31531.5	30746.1	31958.3	43445.5	39891.4	38180.7	23853.1	12100.5	9561.3	6516.5
77.5°	15012.6	24638.5	26446.0	25592.5	30581.1	29630.8	29594.9	17924.8	8840.5	6380.2	4084.9
80°	10275.0	17171.6	20661.2	18053.9	19847.1	19362.9	22289.4	12025.2	6412.5	3841.0	2273.8
82.5°	6039.5	10454.3	14381.4	8740.0	10974.4	11264.9	13273.2	5849.4	3772.9	885.8	494.9
85°	2449.5	4127.9	5623.5	3421.4	5293.5	4465.1	5038.9	1642.6	1050.8	21.5	0.0
87.5°	616.9	1319.8	925.3	383.7	613.3	563.1	444.7	200.8	43.0	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	7208.6	7208.6	7208.6	7208.6	7208.6	7208.6	7208.6	7208.6	7208.6	7208.6	7208.6
2.5°	8004.8	7922.3	7717.9	7513.5	7348.5	7126.2	6979.1	6803.4	6634.8	6484.2	6455.5
5°	8851.2	8578.6	8205.7	7865.0	7517.1	7180.0	6846.4	6495.0	6172.2	5974.9	5849.4
7.5°	9539.8	9059.2	8564.3	8130.3	7710.7	7316.2	6875.1	6448.3	5942.6	5673.7	5429.8
10°	10052.7	9421.4	8772.3	8273.8	7850.6	7466.9	7093.9	6663.5	6053.8	5716.7	5350.9
12.5°	10389.8	9640.2	8879.9	8309.7	7836.3	7538.6	7373.6	7205.1	6599.0	6204.5	5673.7
15°	10622.9	9794.4	8955.2	8227.2	7646.2	7427.4	7592.4	7786.1	7398.7	6943.3	6251.1
17.5°	10877.5	9995.3	8987.5	8004.8	7276.8	7183.5	7610.3	8058.6	8040.7	7588.8	6911.0
20°	11146.5	10171.0	8966.0	7646.2	6828.5	6911.0	7456.1	7976.1	8194.9	7951.0	7348.5
22.5°	11422.7	10339.6	8883.5	7180.0	6408.9	6667.1	7212.2	7667.7	7925.9	7850.6	7391.6
25°	11770.5	10576.3	8761.6	6677.9	6061.0	6419.6	6928.9	7298.3	7477.6	7474.0	7158.4
27.5°	12186.6	10891.9	8697.0	6272.6	5813.5	6139.9	6591.8	6921.7	7047.3	7047.3	6796.2
30°	12670.7	11264.9	8625.3	6007.2	5670.1	5849.4	6200.9	6523.6	6649.2	6649.2	6437.6
32.5°	13208.7	11623.5	8453.1	5845.8	5562.5	5566.1	5788.4	6082.5	6233.1	6254.7	6104.0
35°	13854.2	12007.2	8076.6	5716.7	5437.0	5289.9	5397.5	5641.4	5820.7	5867.3	5774.1
37.5°	14700.6	12477.1	7538.6	5526.6	5243.3	4999.4	5024.5	5211.0	5408.3	5480.0	5419.0
40°	15837.5	13029.4	6979.1	5254.1	4970.7	4680.2	4669.5	4805.8	4999.4	5078.3	5046.1
42.5°	17340.2	13692.8	6444.7	4992.3	4640.8	4343.1	4325.2	4432.8	4601.3	4683.8	4669.5
45°	19262.5	14506.9	5985.7	4787.8	4318.0	4023.9	4016.8	4106.4	4253.5	4339.5	4321.6
47.5°	21934.4	15321.1	5673.7	4680.2	4063.4	3762.1	3776.5	3855.4	3988.1	4049.0	4023.9
50°	25416.7	15568.5	5515.9	4680.2	3927.1	3529.0	3600.7	3665.3	3765.7	3801.6	3769.3
52.5°	28759.3	14750.8	5372.4	4708.9	3945.0	3331.8	3486.0	3532.6	3618.7	3633.0	3586.4
55°	30398.2	12681.5	5175.2	4716.1	4056.2	3163.2	3392.7	3478.8	3511.1	3507.5	3428.6
57.5°	29835.2	10253.5	4841.6	4687.4	4131.5	3055.6	3278.0	3442.9	3464.5	3432.2	3285.1
60°	27859.1	7549.4	4587.0	4475.8	4102.8	3023.3	3102.2	3364.0	3396.3	3353.3	3113.0
62.5°	24545.3	5239.7	4389.7	4009.6	3977.3	3012.6	2826.1	3191.9	3270.8	3209.8	2858.4
65°	19323.5	3701.2	3780.1	3514.7	3704.7	2955.2	2539.2	2983.9	3091.5	2998.2	2503.3
67.5°	13076.0	2671.9	3062.8	3184.7	3263.6	2826.1	2331.2	2747.2	2890.6	2768.7	2090.9
70°	7061.6	1875.7	2022.7	2682.6	2772.3	2603.7	2144.7	2506.9	2671.9	2539.2	1703.5
72.5°	4171.0	1348.5	1416.6	2155.4	2309.6	2291.7	1936.7	2227.1	2428.0	2270.2	1384.3
75°	2298.9	910.9	1011.4	1563.7	1875.7	1768.1	1664.1	1886.4	2090.9	1936.7	1068.7
77.5°	1029.3	545.1	702.9	1025.7	1474.0	1212.2	1287.5	1470.4	1660.5	1499.1	713.7
80°	398.1	304.8	466.2	559.5	1072.3	670.7	828.5	1083.1	1219.4	1090.3	434.0
82.5°	50.2	136.3	200.8	218.8	624.0	355.1	480.6	681.4	670.7	581.0	218.8
85°	0.0	25.1	28.7	14.3	269.0	129.1	157.8	222.4	208.0	157.8	17.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	7208.6	7208.6	7208.6	7208.6	7208.6	7208.6	7208.6	7208.6	7208.6	7208.6	7208.6
2.5°	6279.8	6150.7	6086.1	6032.3	6082.5	6111.2	6111.2	6233.1	6304.9	6333.6	6534.4
5°	5533.8	5293.5	5132.1	5035.3	5067.6	5103.4	5142.9	5297.1	5401.1	5469.2	5781.3
7.5°	4945.6	4579.8	4353.9	4235.5	4253.5	4278.6	4310.8	4461.5	4565.5	4655.1	5003.0
10°	4655.1	4138.7	3841.0	3697.6	3672.5	3658.1	3647.4	3737.0	3815.9	3887.6	4231.9
12.5°	4669.5	3948.6	3586.4	3410.7	3335.3	3249.3	3181.1	3195.5	3245.7	3335.3	3554.1
15°	4852.4	3887.6	3453.7	3234.9	3109.4	3009.0	2926.5	2908.6	2926.5	2940.8	3077.1
17.5°	5099.8	3880.5	3338.9	3066.4	2937.3	2854.8	2779.5	2754.3	2757.9	2775.9	2811.7
20°	5297.1	3859.0	3209.8	2905.0	2790.2	2718.5	2643.2	2618.1	2625.2	2628.8	2668.3
22.5°	5401.1	3826.7	3066.4	2743.6	2646.8	2575.0	2506.9	2503.3	2503.3	2524.8	2553.5
25°	5401.1	3758.5	2937.3	2589.4	2503.3	2438.7	2356.3	2370.6	2377.8	2406.5	2449.5
27.5°	5272.0	3629.4	2833.2	2456.7	2367.0	2302.5	2227.1	2245.1	2255.8	2288.1	2341.9
30°	5107.0	3475.2	2714.9	2331.2	2227.1	2180.5	2116.0	2123.1	2137.5	2173.4	2234.3
32.5°	4931.3	3292.3	2618.1	2205.6	2101.6	2065.8	1994.0	2004.8	2019.1	2058.6	2126.7
35°	4737.6	3077.1	2503.3	2090.9	1986.9	1958.2	1875.7	1882.9	1904.4	1947.4	2015.6
37.5°	4533.2	2901.4	2388.5	1979.7	1872.1	1843.4	1757.3	1764.5	1789.6	1839.8	1904.4
40°	4332.4	2729.2	2266.6	1861.3	1753.7	1728.6	1635.4	1642.6	1671.3	1725.1	1793.2
42.5°	4113.6	2596.5	2108.8	1739.4	1624.6	1599.5	1513.5	1524.2	1556.5	1610.3	1678.4
45°	3851.8	2510.5	1933.1	1624.6	1495.5	1470.4	1391.5	1413.0	1448.9	1502.7	1574.4
47.5°	3582.8	2474.6	1786.0	1502.7	1362.8	1341.3	1276.8	1312.6	1352.1	1395.1	1474.0
50°	3324.6	2428.0	1635.4	1387.9	1248.1	1226.5	1183.5	1230.1	1269.6	1309.0	1384.3
52.5°	3030.5	2327.6	1499.1	1287.5	1151.2	1144.1	1122.5	1165.6	1201.4	1237.3	1301.9
55°	2725.7	2166.2	1380.8	1197.9	1068.7	1075.9	1065.2	1101.0	1129.7	1162.0	1219.4
57.5°	2460.3	1961.8	1287.5	1101.0	997.0	1018.5	1004.2	1022.1	1040.1	1079.5	1126.1
60°	2191.3	1717.9	1183.5	986.3	925.3	950.4	910.9	907.4	914.5	925.3	1011.4
62.5°	1829.1	1463.2	1054.4	885.8	846.4	857.1	781.8	724.5	724.5	735.2	864.3
65°	1470.4	1226.5	910.9	771.1	738.8	731.6	624.0	545.1	538.0	570.2	681.4
67.5°	1208.6	1018.5	767.5	642.0	620.4	627.6	548.7	469.8	462.6	498.5	581.0
70°	1000.6	821.3	613.3	494.9	516.4	548.7	469.8	394.5	383.7	416.0	494.9
72.5°	796.2	642.0	469.8	365.8	426.8	466.2	383.7	312.0	304.8	333.5	408.8
75°	584.6	459.1	319.2	265.4	329.9	365.8	279.7	222.4	211.6	236.7	312.0
77.5°	362.2	258.2	200.8	157.8	225.9	243.9	147.0	129.1	125.5	143.5	197.3
80°	168.6	111.2	96.8	53.8	82.5	96.8	61.0	68.1	71.7	86.1	121.9
82.5°	46.6	17.9	3.6	0.0	0.0	28.7	14.3	28.7	35.9	53.8	78.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	17.9	32.3	57.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	28.7
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7208.6	7208.6	7208.6	7208.6	7208.6	7208.6	7208.6	7208.6
2.5°	6685.0	6828.5	7058.0	7294.7	7527.8	7764.5	7994.1	8076.6
5°	6064.6	6394.5	6850.0	7337.8	7839.8	8349.1	8815.3	9026.9
7.5°	5372.4	5845.8	6530.8	7294.7	8094.5	8894.2	9629.5	9970.2
10°	4633.6	5232.5	6014.4	7047.3	8194.9	9299.5	10310.9	10752.0
12.5°	3930.7	4558.3	5422.6	6659.9	8116.0	9532.6	10748.4	11268.4
15°	3342.5	3898.4	4830.9	6200.9	7861.4	9547.0	10956.4	11526.7
17.5°	2901.4	3263.6	4228.4	5691.6	7527.8	9414.3	11028.1	11637.8
20°	2682.6	2783.0	3446.5	5038.9	7215.8	9288.8	11099.9	11741.8
22.5°	2553.5	2578.6	2818.9	4196.1	6842.8	9249.3	11225.4	11885.3
25°	2449.5	2456.7	2521.2	3324.6	6272.6	9224.2	11419.1	12082.5
27.5°	2345.5	2345.5	2381.4	2679.0	5497.9	9116.6	11670.1	12319.3
30°	2241.5	2241.5	2266.6	2370.6	4590.6	8905.0	11971.4	12627.7
32.5°	2133.9	2133.9	2155.4	2230.7	3665.3	8639.6	12247.5	12939.7
35°	2026.3	2019.1	2047.8	2126.7	2915.7	8302.5	12523.7	13276.8
37.5°	1911.5	1908.0	1936.7	2026.3	2517.6	7911.6	12731.7	13735.9
40°	1789.6	1789.6	1821.9	1918.7	2402.9	7420.2	13061.6	14395.8
42.5°	1678.4	1671.3	1707.1	1825.5	2316.8	6950.4	13653.4	15356.9
45°	1570.8	1556.5	1588.8	1735.8	2166.2	6785.5	14758.0	16777.1
47.5°	1470.4	1434.6	1463.2	1628.2	2029.9	7402.3	16565.5	18746.1
50°	1387.9	1319.8	1344.9	1520.6	1925.9	8740.0	18911.0	21360.5
52.5°	1301.9	1212.2	1226.5	1387.9	1832.6	10013.2	21453.8	24810.6
55°	1212.2	1111.8	1119.0	1255.2	1699.9	10203.3	23935.6	29516.0
57.5°	1111.8	1018.5	1018.5	1133.3	1603.1	8844.0	25843.5	35354.6
60°	1000.6	939.6	921.7	1036.5	1689.2	6240.3	26065.9	39120.3
62.5°	878.7	846.4	821.3	943.2	1753.7	3697.6	24276.3	38209.4
65°	738.8	731.6	713.7	1036.5	1477.6	2184.1	20840.5	35415.6
67.5°	620.4	609.7	609.7	1086.7	1122.5	1373.6	16282.2	31571.0
70°	534.4	494.9	494.9	821.3	681.4	950.4	11368.9	27421.5
72.5°	448.3	405.3	376.6	656.3	509.3	695.8	7104.6	23483.7
75°	358.6	326.4	290.5	434.0	380.2	527.2	4127.9	19456.2
77.5°	258.2	243.9	204.4	319.2	276.2	380.2	2456.7	15012.6
80°	132.7	136.3	129.1	182.9	186.5	258.2	1398.7	10275.0
82.5°	78.9	61.0	68.1	89.7	107.6	147.0	527.2	6039.5
85°	50.2	32.3	32.3	43.0	53.8	57.4	161.4	2449.5
87.5°	25.1	10.8	14.3	21.5	17.9	14.3	7.2	616.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)