

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: P533022

Luminaire Tested: **GALN-SA8B-830-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-830-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27193 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 325
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



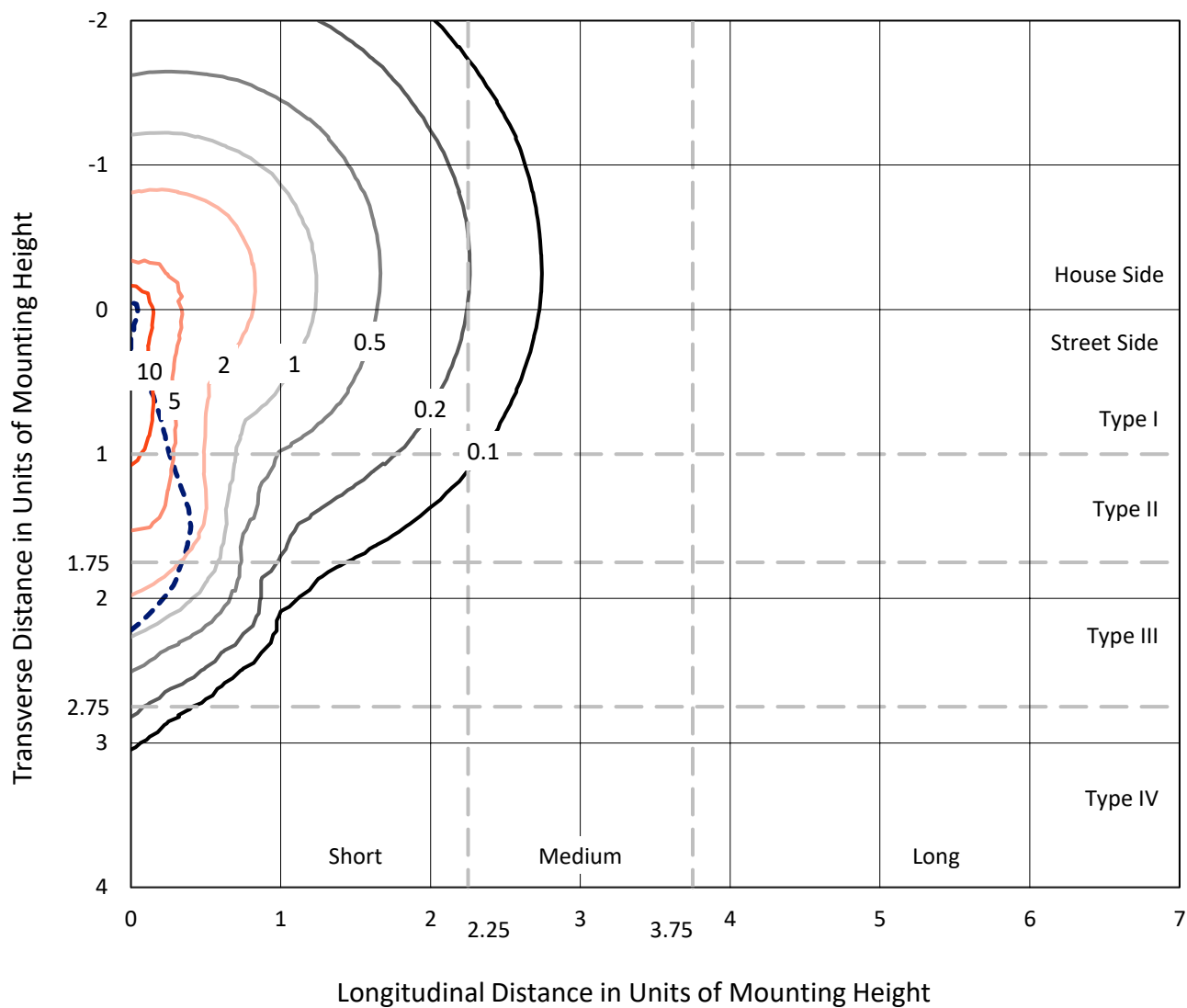
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



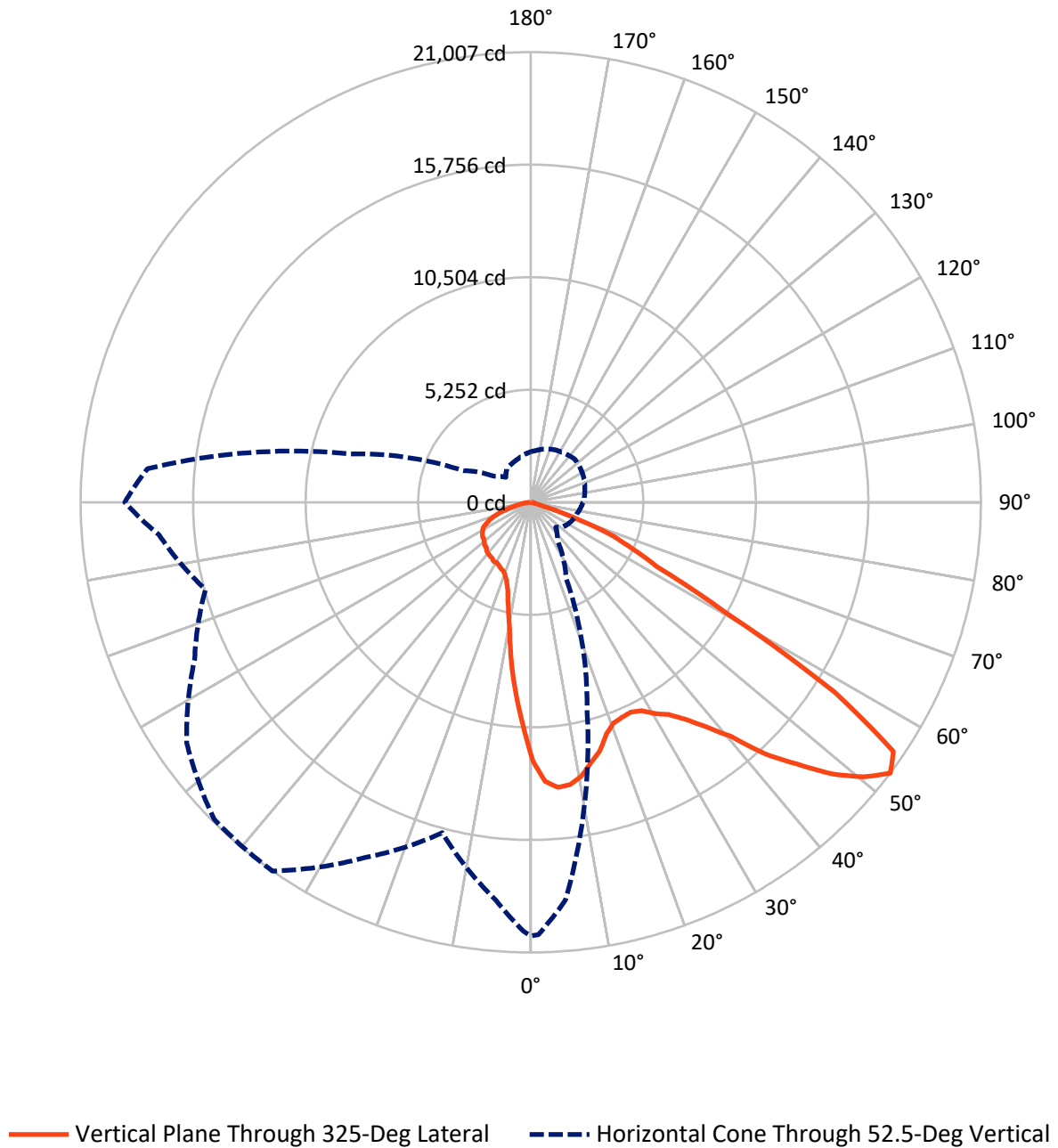
Based on 25 foot mounting height. Maximum calculated value = 19.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8197.5	0.0	8197.5
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	18995.5	0.0	18995.5
	% Fixture	69.9	0.0	69.9
Total	Lumens	27193.0	0.0	27193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	920.7	3.4
10°-20°	1996.0	7.3
20°-30°	3015.8	11.1
30°-40°	4357.9	16.0
40°-50°	5799.6	21.3
50°-60°	6487.0	23.9
60°-70°	3656.0	13.4
70°-80°	815.0	3.0
80°-90°	145.1	0.5
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°	27193.0	100.0
0°-180°	27193.0	100.0

Coefficient of Utilization



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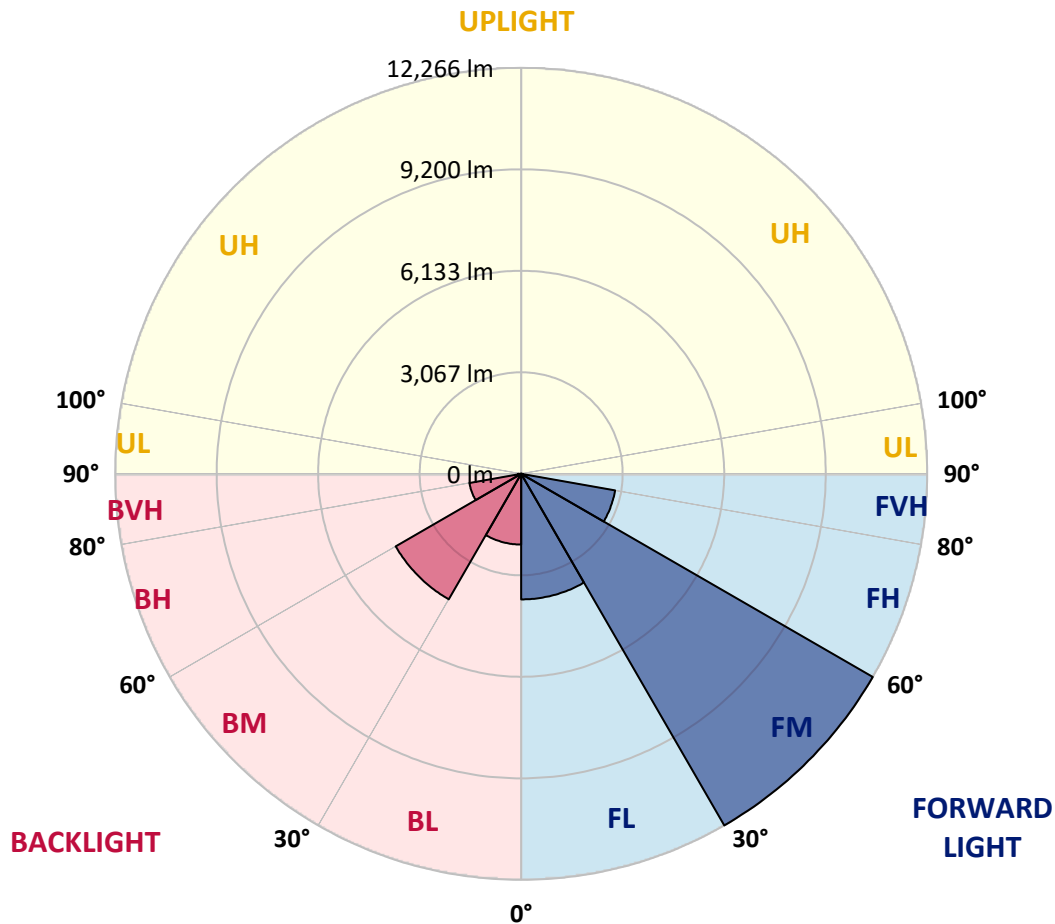
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3794.7	14.0			
FM	(30°-60°)	12266.1	45.1			
FH	(60°-80°)	2882.1	10.6			G2/5000
FVH	(80°-90°)	52.6	0.2			G1/100
BL	(0°-30°)	2137.7	7.9	B3/2500		
BM	(30°-60°)	4378.3	16.1	B3/5000		
BH	(60°-80°)	1588.9	5.8	B3/2500		G3/2500
BVH	(80°-90°)	92.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12068.4	12068.4	12068.4	12068.4	12068.4	12068.4	12068.4	12068.4	12068.4	12068.4	12068.4
2.5°	12269.4	12466.5	12253.7	11875.3	11607.3	11362.9	11106.7	11055.5	10720.5	10661.4	10417.0
5°	11571.8	11528.5	11268.3	10771.7	10223.9	9727.3	9360.7	9006.0	8765.6	8485.7	8466.0
7.5°	10724.4	10472.2	10322.4	9569.6	8891.7	8111.3	7776.3	7236.3	7066.8	6814.6	6684.5
10°	9967.7	9782.4	9431.7	8678.9	7732.9	7216.6	6858.0	6566.3	6369.2	6109.1	5782.0
12.5°	9593.3	9518.4	9124.2	7957.6	7256.0	6704.2	6452.0	6168.2	5833.2	5415.4	5253.8
15°	9660.3	9408.0	9108.5	7819.6	6850.1	6318.0	5916.0	5561.2	5131.6	4733.6	4501.0
17.5°	10160.8	9967.7	9368.6	7906.4	6696.4	5927.8	5198.6	4674.4	4288.2	3929.5	3767.9
20°	11146.1	10866.3	10192.3	8016.7	6365.3	5383.9	4548.3	3901.9	3488.1	3298.9	3243.7
22.5°	12237.9	12072.4	10996.4	8265.0	6101.2	4879.4	3858.6	3212.2	3058.5	3007.3	3109.7
25°	13566.1	13136.5	12245.8	8671.0	5896.3	4449.8	3275.3	2916.6	2837.8	2889.0	3007.3
27.5°	14575.1	14460.8	13120.8	9053.3	5616.4	3933.5	2948.1	2711.7	2735.3	2786.5	2896.9
30°	15773.3	15193.9	13968.2	9317.4	5364.2	3578.7	2719.5	2656.5	2680.1	2766.8	2822.0
32.5°	16494.6	16277.8	14500.2	9715.4	5072.5	3271.3	2542.2	2483.1	2518.5	2648.6	2778.7
35°	17412.9	16983.3	15158.4	9817.9	4867.6	3149.1	2416.0	2372.7	2455.5	2546.1	2691.9
37.5°	18484.9	18189.3	16068.9	9747.0	4757.2	3023.0	2309.6	2289.9	2349.0	2475.2	2644.6
40°	19119.5	19028.8	16545.8	9790.3	4583.8	2912.7	2187.5	2211.1	2333.3	2431.8	2597.4
42.5°	19730.4	19139.2	17251.3	9774.6	4473.4	2762.9	2199.3	2171.7	2266.3	2380.6	2538.2
45°	19864.4	19277.2	17416.8	9664.2	4339.4	2617.1	2108.6	2120.4	2234.7	2376.6	2479.1
47.5°	19777.7	19344.2	17724.3	9632.7	4213.3	2514.6	1974.6	2116.5	2183.5	2297.8	2443.6
50°	19718.6	19694.9	17984.4	9782.4	4043.8	2353.0	1813.0	2065.3	2132.3	2246.6	2404.2
52.5°	20238.8	20187.6	18634.7	10176.6	3909.8	2179.6	1647.5	1935.2	2096.8	2207.2	2360.9
55°	20554.2	20329.5	19750.1	10661.4	3685.2	1951.0	1533.2	1773.6	2010.1	2108.6	2266.3
57.5°	18488.9	18335.2	17866.1	9951.9	3306.8	1651.4	1391.3	1608.1	1891.8	2045.6	2207.2
60°	15383.1	15142.7	13940.6	8458.1	2439.7	1284.9	1304.6	1478.0	1860.3	1919.4	2108.6
62.5°	14504.2	13909.0	12273.4	6806.7	1872.1	1103.6	1170.6	1359.8	1694.8	1793.3	1982.5
65°	11508.7	11067.3	8781.3	4914.9	1253.4	957.7	1068.1	1225.8	1462.2	1655.4	1828.8
67.5°	7204.8	6783.1	4686.3	2325.4	875.0	819.8	953.8	1119.3	1312.5	1485.9	1679.0
70°	3764.0	3302.9	2163.8	839.5	603.0	670.0	796.2	953.8	1143.0	1284.9	1434.7
72.5°	1403.1	1139.1	705.5	362.6	417.8	512.4	646.4	760.7	894.7	1068.1	1150.9
75°	216.8	185.2	181.3	220.7	283.8	370.5	461.1	575.4	693.7	804.0	859.2
77.5°	102.5	98.5	110.4	145.8	189.2	264.1	335.0	445.4	540.0	610.9	642.4
80°	67.0	63.1	70.9	98.5	141.9	197.1	268.0	342.9	429.6	488.7	480.8
82.5°	39.4	43.4	43.4	67.0	98.5	141.9	193.1	260.1	319.2	370.5	339.0
85°	23.6	19.7	19.7	39.4	67.0	114.3	161.6	110.4	114.3	114.3	130.1
87.5°	7.9	7.9	7.9	3.9	7.9	7.9	11.8	19.7	23.6	27.6	35.5
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°	12068.4	12068.4	12068.4	12068.4	12068.4	12068.4	12068.4	12068.4	12068.4	12068.4	12068.4
2.5°	10409.1	10531.3	10487.9	10334.2	10452.5	10472.2	10393.3	10665.3	10716.5	10633.8	10657.4
5°	8438.4	8470.0	8540.9	8690.7	8797.1	8923.2	8923.2	8931.1	8824.7	9092.7	9013.9
7.5°	6574.2	6593.9	6676.7	6995.9	7086.6	7327.0	7429.4	7358.5	7145.7	7055.0	7129.9
10°	5675.5	5561.2	5533.7	5573.1	5778.0	5880.5	5967.2	5943.6	5908.1	5837.1	5758.3
12.5°	5076.5	4993.7	4926.7	4832.1	4843.9	4942.5	5009.5	4954.3	4970.0	4985.8	5009.5
15°	4426.1	4367.0	4331.5	4189.7	4173.9	4240.9	4264.5	4296.1	4355.2	4359.1	4331.5
17.5°	3736.4	3685.2	3764.0	3842.8	3787.6	3791.6	3834.9	3862.5	3846.8	3775.8	3740.3
20°	3263.4	3318.6	3397.4	3472.3	3531.5	3566.9	3582.7	3539.3	3488.1	3342.3	3338.3
22.5°	3125.5	3196.4	3263.4	3377.7	3432.9	3523.6	3440.8	3342.3	3271.3	3200.4	3117.6
25°	3023.0	3082.1	3216.1	3259.5	3365.9	3440.8	3381.7	3283.1	3161.0	3058.5	2995.4
27.5°	2948.1	3015.1	3101.8	3220.1	3302.9	3346.2	3287.1	3247.7	3121.6	2999.4	2908.7
30°	2900.8	2971.8	3129.4	3228.0	3298.9	3334.4	3231.9	3184.6	3094.0	2991.5	2912.7
32.5°	2869.3	2932.4	3066.4	3192.5	3239.8	3239.8	3255.6	3200.4	3074.3	2900.8	2833.8
35°	2766.8	2853.5	2963.9	3109.7	3196.4	3247.7	3168.8	3105.8	3023.0	2845.7	2723.5
37.5°	2707.7	2766.8	2908.7	3046.7	3121.6	3176.7	3145.2	3034.8	2924.5	2778.7	2680.1
40°	2644.6	2739.2	2865.4	2995.4	3078.2	3133.4	3109.7	2979.7	2845.7	2707.7	2640.7
42.5°	2601.3	2664.4	2794.4	2940.2	3038.8	3145.2	3074.3	2912.7	2818.1	2628.9	2554.0
45°	2565.8	2668.3	2806.2	2865.4	2967.8	3078.2	2952.1	2853.5	2743.2	2605.2	2542.2
47.5°	2522.5	2617.1	2707.7	2865.4	2912.7	2963.9	2940.2	2782.6	2688.0	2538.2	2494.9
50°	2506.7	2542.2	2707.7	2794.4	2861.4	2912.7	2849.6	2731.4	2640.7	2487.0	2392.4
52.5°	2443.6	2510.6	2617.1	2731.4	2814.1	2877.2	2774.7	2699.8	2577.6	2416.0	2356.9
55°	2364.8	2404.2	2593.4	2711.7	2755.0	2798.4	2758.9	2636.8	2510.6	2345.1	2286.0
57.5°	2262.3	2353.0	2506.7	2672.2	2727.4	2751.1	2688.0	2589.5	2431.8	2286.0	2191.4
60°	2155.9	2250.5	2420.0	2554.0	2609.2	2695.9	2601.3	2542.2	2360.9	2199.3	2096.8
62.5°	2049.5	2155.9	2282.0	2451.5	2498.8	2534.3	2510.6	2427.9	2282.0	2100.7	1974.6
65°	1923.4	2002.2	2159.9	2246.6	2278.1	2360.9	2278.1	2246.6	2116.5	1943.1	1836.7
67.5°	1734.2	1801.2	1939.1	2021.9	2045.6	2081.0	2077.1	2041.6	1895.8	1777.5	1683.0
70°	1517.4	1576.5	1663.3	1761.8	1773.6	1817.0	1777.5	1769.7	1675.1	1513.5	1462.2
72.5°	1217.9	1273.1	1387.4	1430.7	1434.7	1450.4	1430.7	1403.1	1379.5	1210.0	1158.8
75°	934.1	965.6	1020.8	1060.2	1060.2	1079.9	1068.1	1040.5	977.5	871.0	819.8
77.5°	650.3	681.9	752.8	776.4	772.5	780.4	744.9	717.3	622.7	567.6	524.2
80°	473.0	492.7	528.1	543.9	547.8	559.7	516.3	492.7	437.5	374.4	354.7
82.5°	342.9	354.7	358.7	378.4	378.4	358.7	346.8	323.2	283.8	244.4	228.6
85°	141.9	145.8	149.8	173.4	177.4	212.8	197.1	185.2	161.6	137.9	126.1
87.5°	35.5	39.4	51.2	43.4	51.2	51.2	55.2	63.1	63.1	51.2	51.2
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12068.4	12068.4	12068.4	12068.4	12068.4	12068.4	12068.4	12068.4	12068.4	12068.4	12068.4
2.5°	10748.1	10779.6	11181.6	11232.9	11429.9	11630.9	12036.9	12328.5	12565.0	12718.7	12762.1
5°	9096.6	9297.6	9482.9	9782.4	10054.4	10440.6	10886.0	11437.8	12131.5	12486.2	12628.1
7.5°	7122.0	7358.5	7626.5	7918.2	8316.3	9009.9	9605.1	10243.6	11130.4	11496.9	12052.7
10°	5813.5	6077.6	6432.3	6656.9	7137.8	7799.9	8493.6	9230.6	10078.0	10606.2	11248.6
12.5°	5139.5	5356.3	5683.4	6156.4	6515.1	6944.7	7461.0	8391.1	9605.1	10105.6	10547.1
15°	4394.6	4635.0	5013.4	5537.6	5967.2	6479.6	7059.0	8071.9	9364.7	10137.2	10511.6
17.5°	3779.8	3953.2	4351.3	4804.5	5297.2	5856.8	6688.5	8056.1	9616.9	10606.2	11217.1
20°	3354.1	3377.7	3594.5	3980.8	4650.8	5379.9	6459.9	7977.3	10424.9	11414.2	12186.7
22.5°	3086.1	3062.4	3066.4	3393.5	3862.5	4910.9	6101.2	8245.3	11343.2	12699.0	13219.3
25°	2952.1	2889.0	2849.6	2920.5	3346.2	4355.2	5829.3	8600.0	12332.5	13759.3	14397.8
27.5°	2881.1	2770.8	2691.9	2703.8	3015.1	4075.4	5659.8	8753.7	13313.9	15237.3	15461.9
30°	2853.5	2715.6	2601.3	2561.9	2766.8	3685.2	5297.2	9017.8	14192.8	16049.2	16242.3
32.5°	2755.0	2585.5	2475.2	2439.7	2522.5	3342.3	5037.0	9207.0	14969.3	16932.0	16865.0
35°	2640.7	2498.8	2360.9	2293.9	2353.0	3121.6	4828.2	9116.3	15883.6	17617.8	17582.4
37.5°	2628.9	2443.6	2329.3	2219.0	2215.0	2849.6	4544.4	9203.1	16467.0	18847.5	18362.8
40°	2526.4	2408.2	2258.4	2167.7	2116.5	2711.7	4268.5	8998.1	17322.2	19344.2	18867.3
42.5°	2530.3	2353.0	2222.9	2116.5	2065.3	2510.6	4079.3	8942.9	17621.8	20152.1	19103.7
45°	2467.3	2293.9	2183.5	2057.4	2029.8	2356.9	3898.0	8686.7	18149.9	20191.5	18808.1
47.5°	2404.2	2250.5	2132.3	1982.5	1919.4	2301.7	3756.1	8473.9	17874.0	19821.1	18398.2
50°	2360.9	2183.5	2073.2	1966.7	1789.4	2207.2	3570.9	8422.7	17487.8	19320.5	17637.6
52.5°	2286.0	2128.3	2014.0	1931.3	1647.5	2120.4	3499.9	8722.2	17960.7	18946.1	17416.8
55°	2215.0	2053.4	1907.6	1746.0	1529.2	1891.8	3302.9	9002.0	18650.5	19809.2	18417.9
57.5°	2140.2	1986.4	1828.8	1635.7	1414.9	1655.4	3097.9	9053.3	17357.7	18307.6	17483.8
60°	2041.6	1844.6	1726.3	1474.1	1292.8	1371.6	2455.5	7981.2	13463.7	15288.5	15316.1
62.5°	1931.3	1718.4	1616.0	1320.4	1166.6	1182.4	2002.2	6708.2	10921.5	12655.7	13408.5
65°	1785.4	1580.5	1458.3	1221.8	1076.0	1024.8	1466.2	4914.9	8296.5	10267.2	11122.5
67.5°	1596.2	1403.1	1249.4	1064.2	961.7	878.9	1001.1	2766.8	4899.1	6893.4	7153.6
70°	1395.2	1229.7	1068.1	914.4	800.1	741.0	733.1	1225.8	2341.2	3708.8	4221.2
72.5°	1099.6	981.4	851.3	737.0	662.1	575.4	524.2	508.4	792.2	1509.5	2085.0
75°	788.3	689.7	614.9	540.0	484.8	437.5	398.1	362.6	331.1	378.4	520.3
77.5°	496.6	461.1	402.0	382.3	350.8	339.0	323.2	303.5	279.8	264.1	264.1
80°	335.0	311.4	291.7	287.7	275.9	272.0	275.9	256.2	232.5	212.8	220.7
82.5°	224.7	220.7	216.8	212.8	216.8	220.7	228.6	224.7	205.0	193.1	197.1
85°	134.0	141.9	149.8	157.7	173.4	153.7	126.1	106.4	94.6	86.7	82.8
87.5°	51.2	70.9	63.1	59.1	63.1	59.1	55.2	51.2	43.4	39.4	39.4
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°	12068.4	12068.4	12068.4	12068.4	12068.4	12068.4	12068.4	12068.4	12068.4	12068.4
2.5°	13049.8	13128.6	13195.6	13179.9	13041.9	12856.7	12781.8	12399.5	12320.7	12269.4
5°	13227.2	13684.4	13782.9	13723.8	13365.1	12911.9	12470.4	11910.8	11583.6	11571.8
7.5°	12900.0	13463.7	13641.0	13775.0	13298.1	12509.9	11753.1	10913.6	10708.7	10724.4
10°	12068.4	12967.0	13404.5	13542.5	12994.6	12312.8	11264.4	10413.1	9975.6	9967.7
12.5°	11607.3	12312.8	12435.0	12628.1	12466.5	11776.8	10980.6	10026.8	9601.1	9593.3
15°	11197.4	11662.5	11697.9	11969.9	12056.6	11591.5	11055.5	10038.6	9695.7	9660.3
17.5°	11556.0	11232.9	11098.8	11134.3	11390.5	11560.0	11489.0	10708.7	10357.9	10160.8
20°	11796.5	11075.2	10669.2	10708.7	11012.1	11630.9	12135.4	11678.2	11122.5	11146.1
22.5°	12438.9	11098.8	10464.3	10420.9	10901.8	12001.4	12864.6	12904.0	12368.0	12237.9
25°	13400.6	11370.8	10401.2	10389.4	10850.5	12399.5	13715.9	14354.4	13806.6	13566.1
27.5°	14173.1	11796.5	10598.3	10637.7	11012.1	12722.7	14441.1	15288.5	14870.7	14575.1
30°	14851.0	12237.9	10874.2	10692.9	11445.7	12892.2	14752.5	16352.7	16017.7	15773.3
32.5°	15130.9	12864.6	11311.7	11012.1	11804.3	13097.1	15398.9	17385.3	17097.6	16494.6
35°	15603.8	13215.4	11548.2	11524.5	12431.0	13589.8	15702.3	18067.2	17948.9	17412.9
37.5°	15982.2	13570.1	12387.7	12127.5	13290.2	14417.5	16191.1	19009.1	18737.2	18484.9
40°	16273.8	14204.6	13172.0	13514.9	14346.5	15170.3	16640.4	19068.3	19852.6	19119.5
42.5°	16005.8	14772.2	14460.8	15280.6	16068.9	16029.5	16691.6	19525.5	20112.7	19730.4
45°	15938.8	15733.9	16498.5	17243.4	17424.7	16742.9	16325.1	19021.0	20033.9	19864.4
47.5°	15777.2	16679.8	18012.0	19225.9	18950.0	17219.8	15887.6	18930.3	20081.2	19777.7
50°	15722.1	16884.8	19131.3	20313.7	20148.2	17633.6	15682.6	18347.0	19746.2	19718.6
52.5°	15718.1	17306.5	19596.4	20904.9	21007.4	18287.9	15962.5	18642.6	20006.3	20238.8
55°	15895.5	17172.5	19537.3	20577.8	20538.4	17996.2	15994.0	18839.7	20325.6	20554.2
57.5°	14992.9	15383.1	16124.1	16947.8	16735.0	14906.2	14283.5	17416.8	18654.4	18488.9
60°	12947.3	11725.5	10890.0	10850.5	10436.7	9865.2	11690.1	15544.7	15544.7	15383.1
62.5°	11339.3	7697.5	6613.6	6306.2	6601.8	7260.0	11276.2	15119.0	14689.4	14504.2
65°	9916.4	5876.6	4780.9	4694.2	5206.5	6199.7	10196.3	12880.3	12123.6	11508.7
67.5°	6381.0	4304.0	3555.1	3401.4	4020.2	4552.3	6787.0	7922.1	7445.2	7204.8
70°	4114.8	2802.3	1978.6	1856.4	2096.8	2806.2	4335.5	4619.3	3925.6	3764.0
72.5°	1947.0	1210.0	693.7	571.5	642.4	1072.0	1714.5	1844.6	1533.2	1403.1
75°	618.8	445.4	283.8	244.4	232.5	275.9	394.1	303.5	220.7	216.8
77.5°	275.9	264.1	224.7	189.2	165.5	137.9	114.3	94.6	98.5	102.5
80°	228.6	208.9	185.2	165.5	137.9	106.4	82.8	63.1	63.1	67.0
82.5°	201.0	181.3	161.6	137.9	118.2	86.7	63.1	43.4	39.4	39.4
85°	86.7	102.5	110.4	118.2	94.6	70.9	43.4	27.6	23.6	23.6
87.5°	35.5	31.5	27.6	23.6	19.7	19.7	15.8	11.8	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)