

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: P956643

Luminaire Tested: **GALN-SB9B-727-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956643
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-SB9B-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36307 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

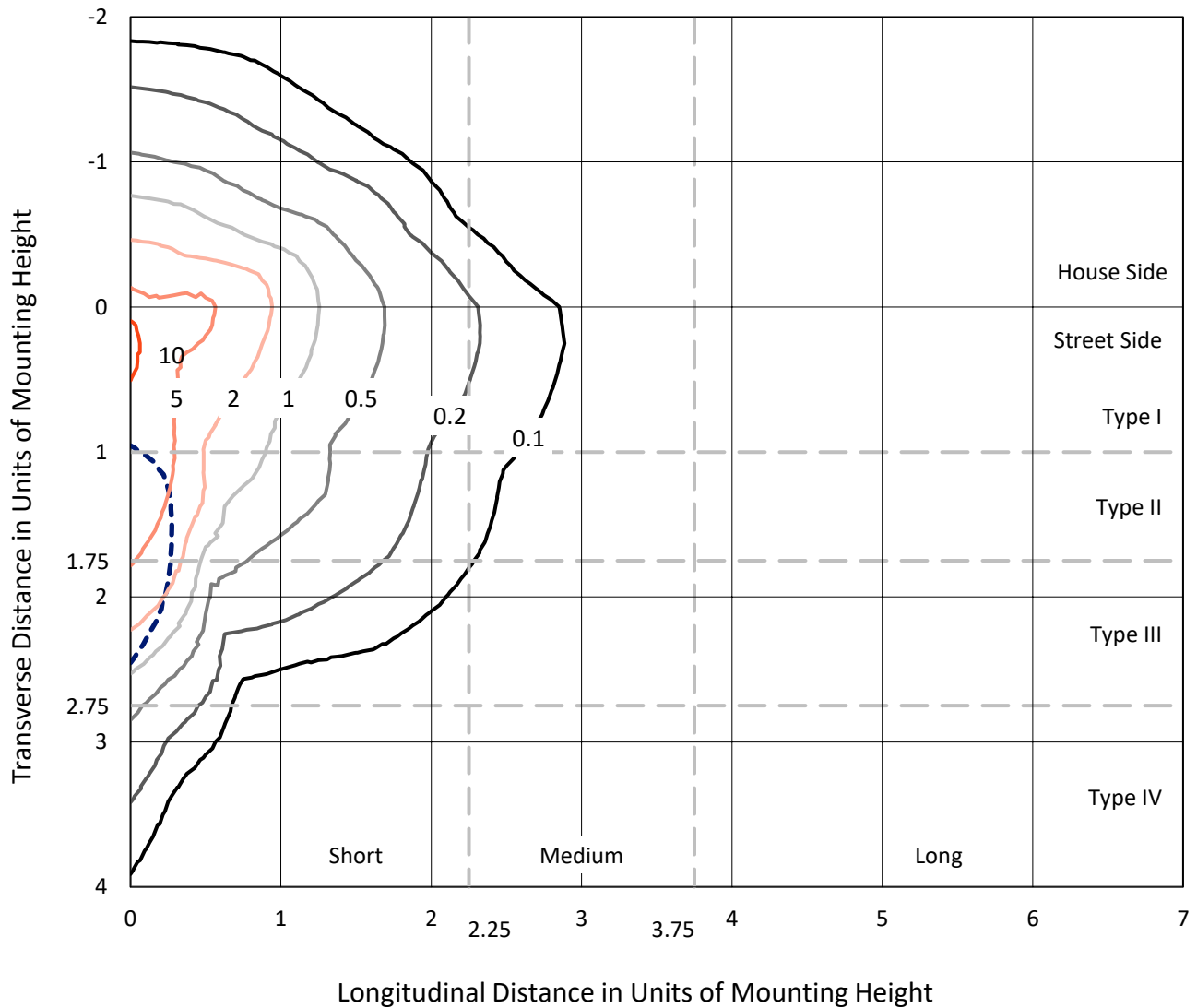
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

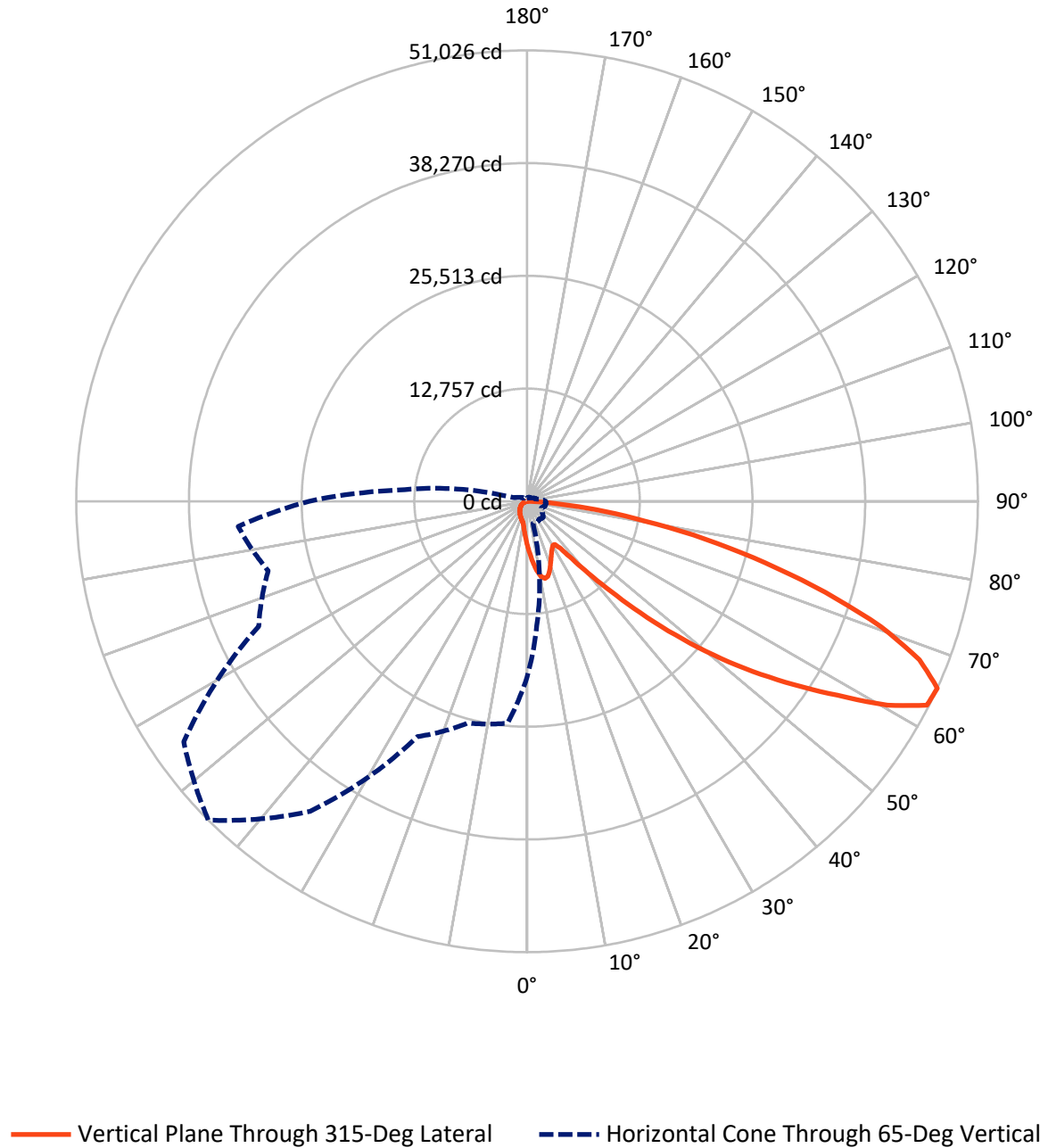
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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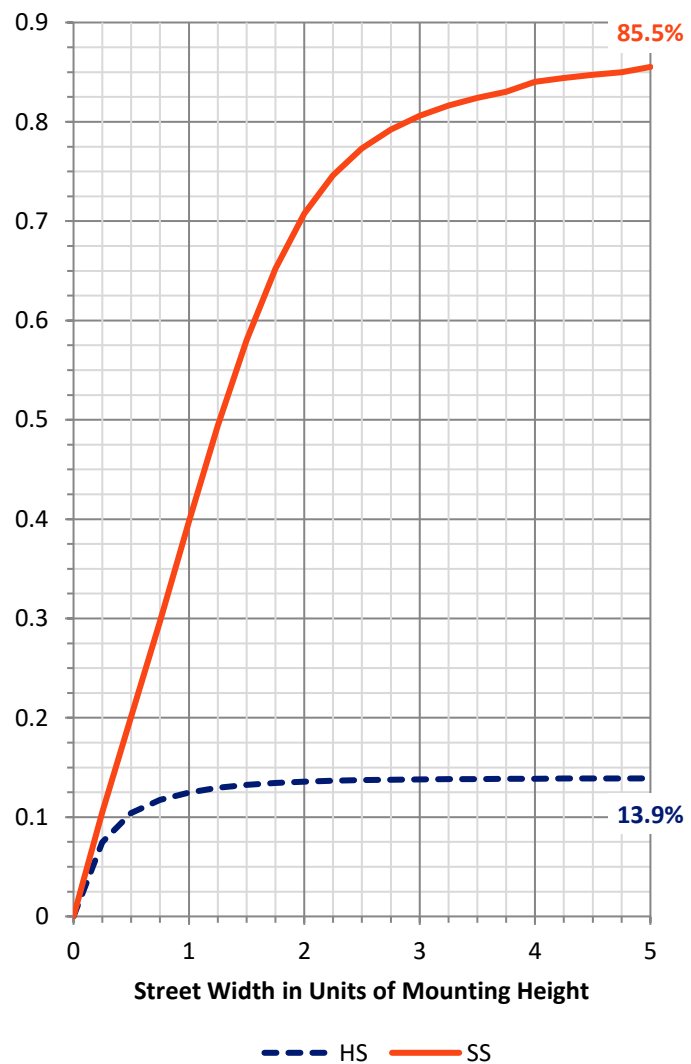
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5084.5	0.0	5084.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	31222.5	0.0	31222.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	36307.0	0.0	36307.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.0	1.4
10°-20°	1483.7	4.1
20°-30°	2185.9	6.0
30°-40°	2808.2	7.7
40°-50°	4541.7	12.5
50°-60°	7964.4	21.9
60°-70°	9965.6	27.4
70°-80°	5823.4	16.0
80°-90°	1039.0	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°	36307.0	100.0
0°-180°	36307.0	100.0

Coefficient of Utilization



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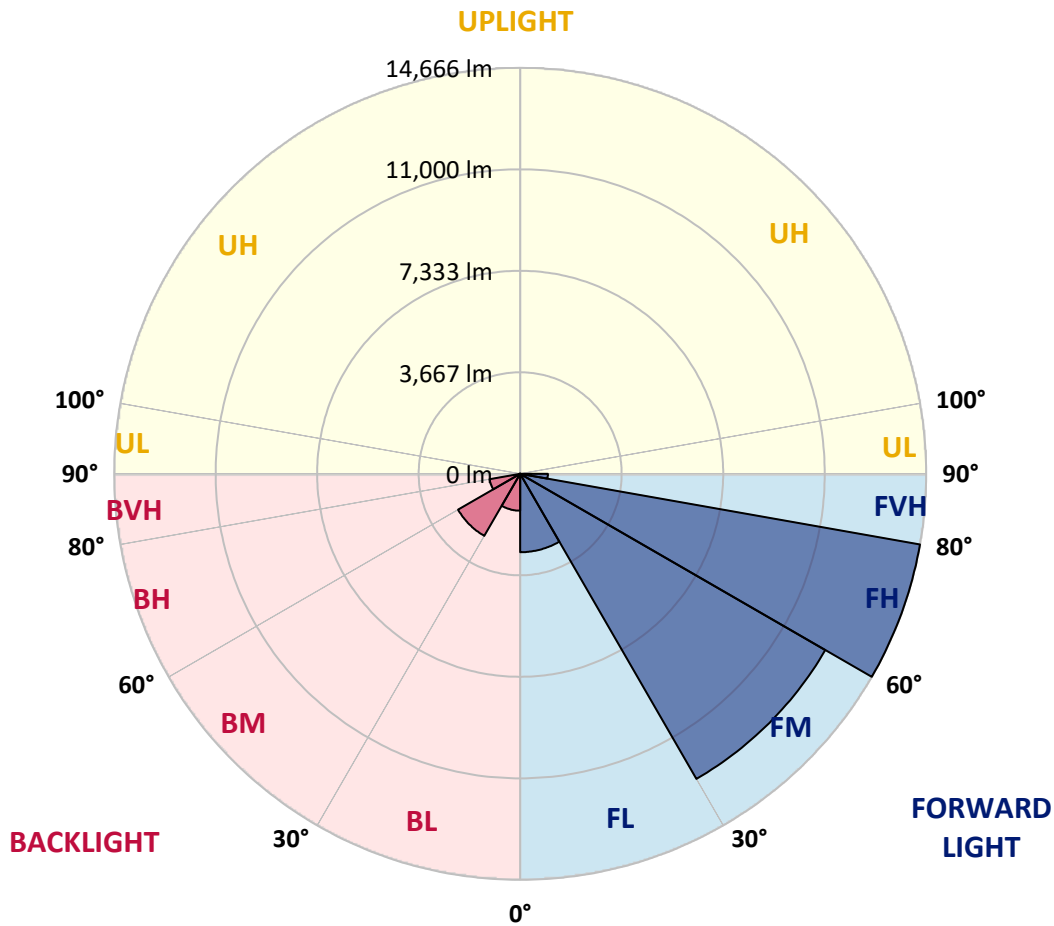
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2831.8	7.8			
FM (30°-60°)	12725.2	35.0			
FH (60°-80°)	14666.4	40.4			G5
FVH (80°-90°)	999.1	2.8			G5
BL (0°-30°)	1332.7	3.7	B3/2500		
BM (30°-60°)	2589.2	7.1	B3/5000		
BH (60°-80°)	1122.7	3.1	B3/2500		G3/2500
BVH (80°-90°)	39.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4
2.5°	5680.2	5582.6	5525.1	5382.5	5240.0	5124.9	4969.8	4867.3	4744.7	4627.2	4522.1
5°	6330.5	6172.9	5982.8	5722.7	5485.1	5242.5	5007.3	4774.7	4529.6	4304.5	4167.0
7.5°	6880.7	6653.1	6318.0	5972.8	5670.2	5377.5	5102.4	4794.7	4497.1	4144.4	3956.9
10°	7300.9	7010.8	6570.6	6117.9	5770.2	5475.1	5207.4	4947.3	4647.2	4222.0	3986.9
12.5°	7556.0	7245.9	6723.2	6192.9	5795.2	5465.1	5257.5	5142.4	5024.9	4602.2	4327.0
15°	7743.6	7408.5	6830.7	6245.4	5737.7	5332.5	5179.9	5295.0	5430.0	5159.9	4842.3
17.5°	7938.7	7586.1	6970.8	6267.9	5582.6	5074.9	5009.8	5307.5	5620.1	5607.6	5292.5
20°	8123.8	7773.6	7093.3	6252.9	5332.5	4762.2	4819.8	5199.9	5562.6	5715.2	5545.1
22.5°	8336.4	7966.2	7210.9	6195.4	5007.3	4469.6	4649.7	5029.9	5347.5	5527.6	5475.1
25°	8596.5	8208.8	7376.0	6110.4	4657.2	4227.0	4477.1	4832.3	5089.9	5214.9	5212.4
27.5°	8876.7	8499.0	7596.1	6065.3	4374.6	4054.4	4282.0	4597.2	4827.3	4914.8	4914.8
30°	9224.3	8836.6	7856.2	6015.3	4189.5	3954.4	4079.4	4324.5	4549.6	4637.2	4637.2
32.5°	9604.5	9211.8	8106.3	5895.3	4076.9	3879.3	3881.8	4036.9	4242.0	4347.0	4362.0
35°	10079.7	9662.0	8373.9	5632.6	3986.9	3791.8	3689.2	3764.3	3934.3	4059.4	4091.9
37.5°	10757.5	10252.3	8701.6	5257.5	3854.3	3656.7	3486.6	3504.1	3634.2	3771.8	3821.8
40°	11693.0	11045.2	9086.8	4867.3	3664.2	3466.6	3264.0	3256.5	3351.6	3486.6	3541.7
42.5°	12958.6	12093.2	9549.5	4494.6	3481.6	3236.5	3028.9	3016.4	3091.4	3209.0	3266.5
45°	14629.4	13433.8	10117.2	4174.5	3339.1	3011.4	2806.3	2801.3	2863.8	2966.4	3026.4
47.5°	16767.9	15297.2	10685.0	3956.9	3264.0	2833.8	2623.7	2633.7	2688.8	2781.3	2823.8
50°	19536.7	17725.8	10857.6	3846.8	3264.0	2738.8	2461.2	2511.2	2556.2	2626.2	2651.2
52.5°	22855.7	20056.9	10287.3	3746.8	3284.0	2751.3	2323.6	2431.1	2463.7	2523.7	2533.7
55°	25932.2	21199.9	8844.1	3609.2	3289.0	2828.8	2206.0	2366.1	2426.1	2448.6	2446.1
57.5°	27718.0	20807.3	7150.9	3376.6	3269.0	2881.4	2131.0	2286.1	2401.1	2416.1	2393.6
60°	27377.8	19429.1	5265.0	3199.0	3121.5	2861.3	2108.5	2163.5	2346.1	2368.6	2338.6
62.5°	24756.6	17118.0	3654.2	3061.4	2796.3	2773.8	2101.0	1970.9	2226.0	2281.1	2238.5
65°	19899.3	13476.3	2581.2	2636.2	2451.1	2583.7	2061.0	1770.8	2081.0	2156.0	2091.0
67.5°	14436.8	9119.3	1863.4	2136.0	2221.0	2276.1	1970.9	1625.8	1915.9	2015.9	1930.9
70°	9264.3	4924.8	1308.1	1410.7	1870.9	1933.4	1815.9	1495.7	1748.3	1863.4	1770.8
72.5°	6585.6	2908.9	940.4	988.0	1503.2	1610.8	1598.2	1350.6	1553.2	1693.3	1583.2
75°	4544.6	1603.3	635.3	705.3	1090.5	1308.1	1233.1	1160.5	1315.6	1458.2	1350.6
77.5°	2848.8	717.8	380.2	490.2	715.3	1028.0	845.4	897.9	1025.5	1158.0	1045.5
80°	1585.7	277.6	212.6	325.2	390.2	747.9	467.7	577.8	755.4	850.4	760.4
82.5°	345.2	35.0	95.0	140.1	152.6	435.2	247.6	335.2	475.2	467.7	405.2
85°	0.0	0.0	17.5	20.0	10.0	187.6	90.0	110.1	155.1	145.1	110.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	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°	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4
2.5°	4502.1	4379.6	4289.5	4244.5	4207.0	4242.0	4262.0	4262.0	4347.0	4397.1	4417.1
5°	4079.4	3859.3	3691.7	3579.2	3511.6	3534.2	3559.2	3586.7	3694.2	3766.8	3814.3
7.5°	3786.8	3449.1	3194.0	3036.4	2953.9	2966.4	2983.9	3006.4	3111.5	3184.0	3246.5
10°	3731.8	3246.5	2886.4	2678.8	2578.7	2561.2	2551.2	2543.7	2606.2	2661.2	2711.3
12.5°	3956.9	3256.5	2753.8	2501.2	2378.6	2326.1	2266.1	2218.5	2228.5	2263.6	2326.1
15°	4359.5	3384.1	2711.3	2408.6	2256.1	2168.5	2098.5	2041.0	2028.5	2041.0	2051.0
17.5°	4819.8	3556.7	2706.3	2328.6	2138.5	2048.5	1990.9	1938.4	1920.9	1923.4	1935.9
20°	5124.9	3694.2	2691.3	2238.5	2026.0	1945.9	1895.9	1843.4	1825.9	1830.9	1833.4
22.5°	5154.9	3766.8	2668.8	2138.5	1913.4	1845.9	1795.8	1748.3	1745.8	1745.8	1760.8
25°	4992.3	3766.8	2621.2	2048.5	1805.8	1745.8	1700.8	1643.3	1653.3	1658.3	1678.3
27.5°	4739.7	3676.7	2531.2	1975.9	1713.3	1650.8	1605.8	1553.2	1565.7	1573.2	1595.7
30°	4489.6	3561.7	2423.6	1893.4	1625.8	1553.2	1520.7	1475.7	1480.7	1490.7	1515.7
32.5°	4257.0	3439.1	2296.1	1825.9	1538.2	1465.7	1440.7	1390.7	1398.2	1408.2	1435.7
35°	4026.9	3304.0	2146.0	1745.8	1458.2	1385.6	1365.6	1308.1	1313.1	1328.1	1358.1
37.5°	3779.3	3161.5	2023.4	1665.8	1380.6	1305.6	1285.6	1225.6	1230.6	1248.1	1283.1
40°	3519.2	3021.4	1903.4	1580.7	1298.1	1223.1	1205.6	1140.5	1145.5	1165.5	1203.1
42.5°	3256.5	2868.8	1810.8	1470.7	1213.1	1133.0	1115.5	1055.5	1063.0	1085.5	1123.0
45°	3013.9	2686.3	1750.8	1348.1	1133.0	1043.0	1025.5	970.5	985.5	1010.5	1048.0
47.5°	2806.3	2498.7	1725.8	1245.6	1048.0	950.4	935.4	890.4	915.4	942.9	973.0
50°	2628.7	2318.6	1693.3	1140.5	968.0	870.4	855.4	825.4	857.9	885.4	912.9
52.5°	2501.2	2113.5	1623.3	1045.5	897.9	802.9	797.9	782.9	812.9	837.9	862.9
55°	2391.1	1900.9	1510.7	963.0	835.4	745.3	750.4	742.8	767.9	787.9	810.4
57.5°	2291.1	1715.8	1368.1	897.9	767.9	695.3	710.3	700.3	712.8	725.3	752.9
60°	2171.0	1528.2	1198.1	825.4	687.8	645.3	662.8	635.3	632.8	637.8	645.3
62.5°	1993.4	1275.6	1020.5	735.3	617.8	590.3	597.8	545.3	505.2	505.2	512.7
65°	1745.8	1025.5	855.4	635.3	537.8	515.2	510.2	435.2	380.2	375.2	397.7
67.5°	1458.2	842.9	710.3	535.3	447.7	432.7	437.7	382.7	327.7	322.7	347.7
70°	1188.1	697.8	572.8	427.7	345.2	360.2	382.7	327.7	275.1	267.6	290.1
72.5°	965.5	555.3	447.7	327.7	255.1	297.6	325.2	267.6	217.6	212.6	232.6
75°	745.3	407.7	320.2	222.6	185.1	230.1	255.1	195.1	155.1	147.6	165.1
77.5°	497.7	252.6	180.1	140.1	110.1	157.6	170.1	102.5	90.0	87.5	100.0
80°	302.6	117.6	77.5	67.5	37.5	57.5	67.5	42.5	47.5	50.0	60.0
82.5°	152.6	32.5	12.5	2.5	0.0	0.0	20.0	10.0	20.0	25.0	37.5
85°	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	12.5	22.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0
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°	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4
2.5°	4557.1	4662.2	4762.2	4922.3	5087.4	5250.0	5415.0	5575.1	5632.6	5675.2	5770.2
5°	4031.9	4229.5	4459.6	4777.2	5117.4	5467.6	5822.7	6147.9	6295.5	6395.5	6620.6
7.5°	3489.1	3746.8	4076.9	4554.6	5087.4	5645.1	6202.9	6715.6	6953.3	7145.9	7488.5
10°	2951.4	3231.5	3649.2	4194.5	4914.8	5715.2	6485.5	7190.9	7498.5	7741.1	8206.3
12.5°	2478.7	2741.3	3179.0	3781.8	4644.7	5660.2	6648.1	7496.0	7858.7	8131.3	8641.6
15°	2146.0	2331.1	2718.8	3369.1	4324.5	5482.6	6658.1	7641.1	8038.8	8323.9	8766.6
17.5°	1960.9	2023.4	2276.1	2948.9	3969.4	5250.0	6565.6	7691.1	8116.3	8381.4	8689.1
20°	1860.9	1870.9	1940.9	2403.6	3514.1	5032.4	6478.0	7741.1	8188.8	8411.4	8504.0
22.5°	1780.8	1780.8	1798.3	1965.9	2926.4	4772.2	6450.5	7828.7	8288.9	8426.5	8236.4
25°	1708.3	1708.3	1713.3	1758.3	2318.6	4374.6	6433.0	7963.7	8426.5	8464.0	7941.2
27.5°	1633.3	1635.8	1635.8	1660.8	1868.4	3834.3	6358.0	8138.8	8591.5	8514.0	7658.6
30°	1558.2	1563.2	1563.2	1580.7	1653.3	3201.5	6210.4	8348.9	8806.6	8579.0	7378.5
32.5°	1483.2	1488.2	1488.2	1503.2	1555.7	2556.2	6025.3	8541.5	9024.2	8606.5	7118.3
35°	1405.7	1413.2	1408.2	1428.2	1483.2	2033.5	5790.2	8734.1	9259.3	8694.1	6990.8
37.5°	1328.1	1333.1	1330.6	1350.6	1413.2	1755.8	5517.6	8879.2	9579.5	8889.2	7143.4
40°	1250.6	1248.1	1248.1	1270.6	1338.1	1675.8	5174.9	9109.3	10039.7	9231.8	7808.7
42.5°	1170.5	1170.5	1165.5	1190.6	1273.1	1615.8	4847.3	9522.0	10710.0	9777.1	8989.2
45°	1098.0	1095.5	1085.5	1108.0	1210.6	1510.7	4732.2	10292.3	11700.5	10660.0	10417.4
47.5°	1028.0	1025.5	1000.5	1020.5	1135.5	1415.7	5162.4	11552.9	13073.6	11958.1	11755.5
50°	965.5	968.0	920.4	937.9	1060.5	1343.1	6095.4	13188.7	14897.0	13706.4	13023.6
52.5°	907.9	907.9	845.4	855.4	968.0	1278.1	6983.3	14962.0	17303.1	16145.1	14501.8
55°	850.4	845.4	775.4	780.4	875.4	1185.6	7115.8	16692.8	20584.7	19814.3	16522.7
57.5°	785.4	775.4	710.3	710.3	790.4	1118.0	6167.9	18023.5	24656.6	25206.8	19436.6
60°	705.3	697.8	655.3	642.8	722.8	1178.1	4352.0	18178.5	27282.8	32377.7	25016.7
62.5°	602.8	612.8	590.3	572.8	657.8	1223.1	2578.7	16930.4	26647.5	34658.8	31699.9
65°	475.2	515.2	510.2	497.7	722.8	1030.5	1523.2	14534.3	24699.1	32817.9	30336.7
67.5°	405.2	432.7	425.2	425.2	757.9	782.9	957.9	11355.3	22017.8	30634.4	27097.7
70°	345.2	372.7	345.2	345.2	572.8	475.2	662.8	7928.7	19124.0	28218.2	24971.7
72.5°	285.1	312.6	282.6	262.6	457.7	355.2	485.2	4954.8	16377.7	25702.1	23516.0
75°	217.6	250.1	227.6	202.6	302.6	265.1	367.7	2878.9	13568.9	21990.3	21442.6
77.5°	137.6	180.1	170.1	142.6	222.6	192.6	265.1	1713.3	10469.9	17183.1	18443.6
80°	85.0	92.5	95.0	90.0	127.6	130.1	180.1	975.5	7165.9	11975.6	14409.3
82.5°	55.0	55.0	42.5	47.5	62.5	75.0	102.5	367.7	4212.0	7290.9	10029.7
85°	40.0	35.0	22.5	22.5	30.0	37.5	40.0	112.6	1708.3	2878.9	3921.8
87.5°	20.0	17.5	7.5	10.0	15.0	12.5	10.0	5.0	430.2	920.4	645.3
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°	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4	5027.4
2.5°	5820.2	5897.8	5902.8	5902.8	5835.2	5832.7	5695.2	5680.2
5°	6853.2	6903.2	6915.7	6890.7	6755.7	6655.6	6388.0	6330.5
7.5°	7798.7	7898.7	7898.7	7838.7	7618.6	7413.5	7025.8	6880.7
10°	8554.0	8669.1	8644.1	8521.5	8243.9	7961.2	7491.0	7300.9
12.5°	8921.7	9039.2	8974.2	8834.1	8564.0	8266.4	7771.1	7556.0
15°	8914.2	8881.7	8814.1	8796.6	8666.6	8441.5	7978.7	7743.6
17.5°	8596.5	8321.4	8268.9	8444.0	8609.0	8554.0	8158.8	7938.7
20°	8093.8	7613.6	7566.0	7901.2	8371.4	8611.5	8326.4	8123.8
22.5°	7563.5	7045.8	6935.8	7305.9	8013.8	8629.0	8539.0	8336.4
25°	7060.8	6540.6	6430.5	6775.7	7616.1	8599.0	8769.1	8596.5
27.5°	6640.6	6137.9	6035.3	6380.5	7233.4	8514.0	8999.2	8876.7
30°	6315.5	5850.2	5775.2	6107.9	6903.2	8408.9	9291.9	9224.3
32.5°	6125.4	5785.2	5812.7	6085.4	6725.7	8293.9	9572.0	9604.5
35°	6313.0	6328.0	6568.1	6680.6	6890.7	8276.4	9952.2	10079.7
37.5°	7245.9	7766.1	8263.9	8171.3	7698.6	8479.0	10519.9	10757.5
40°	8834.1	9902.1	10710.0	10357.4	9166.8	9099.3	11337.8	11693.0
42.5°	10775.1	12585.9	13916.5	12971.1	11060.2	10184.8	12505.9	12958.6
45°	12823.5	15895.0	17990.9	16025.0	13078.6	11705.5	14274.2	14629.4
47.5°	14982.0	19916.8	22628.1	19411.6	14949.5	13436.3	16685.3	16767.9
50°	17343.1	24326.4	27355.3	22795.7	16755.4	15419.7	19631.7	19536.7
52.5°	19591.7	28861.0	31982.5	26194.8	18341.1	17880.9	23050.8	22855.7
55°	21737.7	33393.2	36637.2	29461.3	19836.8	21132.4	27112.7	25932.2
57.5°	24226.4	37467.6	41434.4	32742.9	21927.8	25354.4	31654.8	27718.0
60°	27905.6	42097.2	46859.5	37240.0	25904.6	29791.5	33283.1	27377.8
62.5°	32602.8	46354.2	50803.8	41647.0	29899.0	30626.9	30884.5	24756.6
65°	33515.7	47432.2	51026.4	42825.1	29383.8	25979.7	25214.3	19899.3
67.5°	31094.6	45483.8	47915.0	40631.6	25992.2	20076.9	18921.4	14436.8
70°	28378.3	41769.6	42492.4	36902.3	22860.7	14766.9	12778.5	9264.3
72.5°	25594.5	36814.8	35319.1	32047.5	20091.9	10752.5	9216.8	6585.6
75°	22288.0	30299.2	27820.5	26627.5	16635.3	8439.0	6668.1	4544.6
77.5°	17848.4	21327.5	20664.7	20639.7	12500.9	6165.4	4449.6	2848.8
80°	12590.9	13841.5	13503.8	15544.8	8386.4	4472.1	2678.8	1585.7
82.5°	6095.4	7653.6	7856.2	9256.8	4079.4	2631.2	617.8	345.2
85°	2386.1	3691.7	3114.0	3514.1	1145.5	732.8	15.0	0.0
87.5°	267.6	427.7	392.7	310.1	140.1	30.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)