

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: P950952

Luminaire Tested: **GALN-SB5B-730-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950952
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-SB5B-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 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: 21709 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 182.7
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

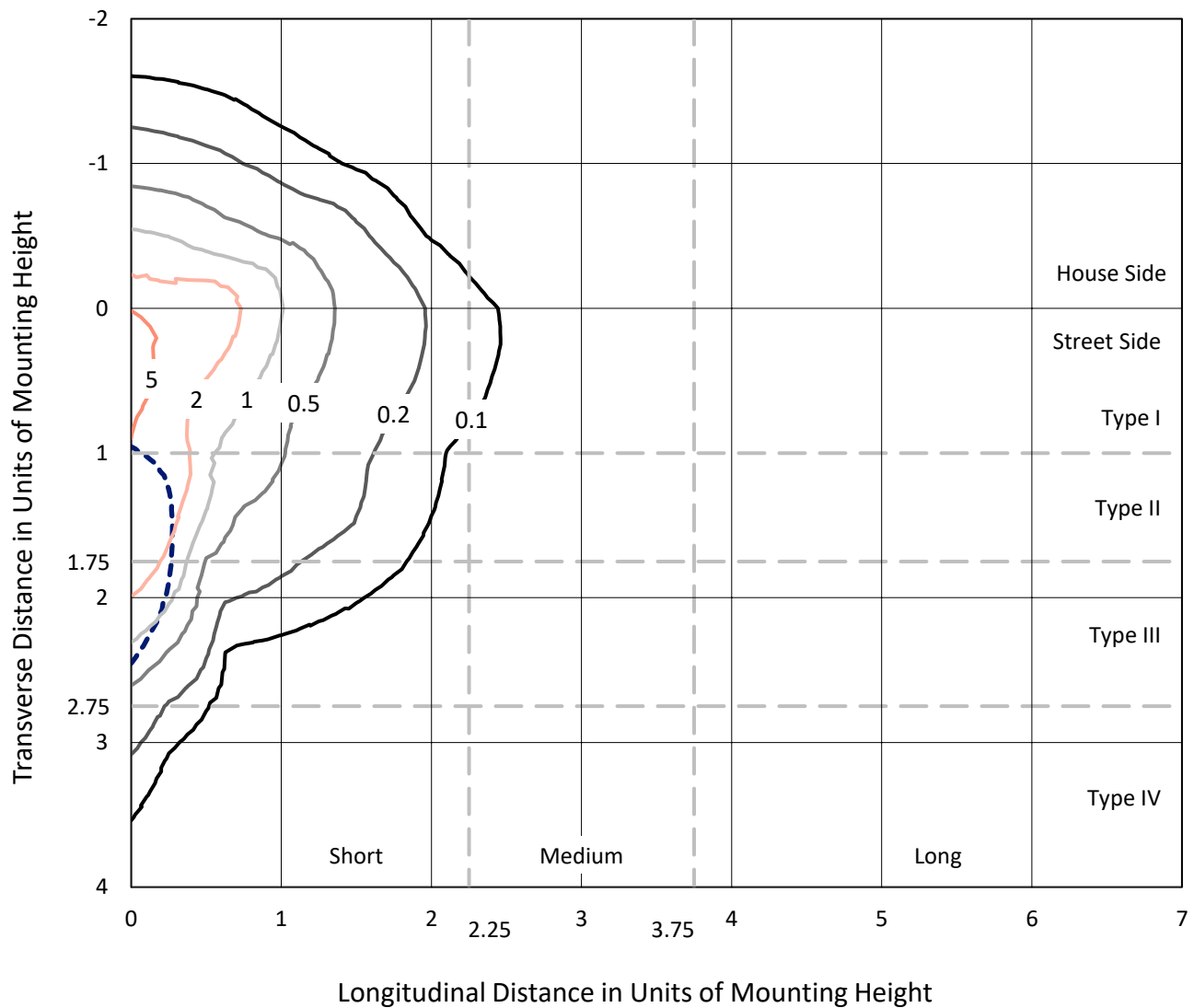


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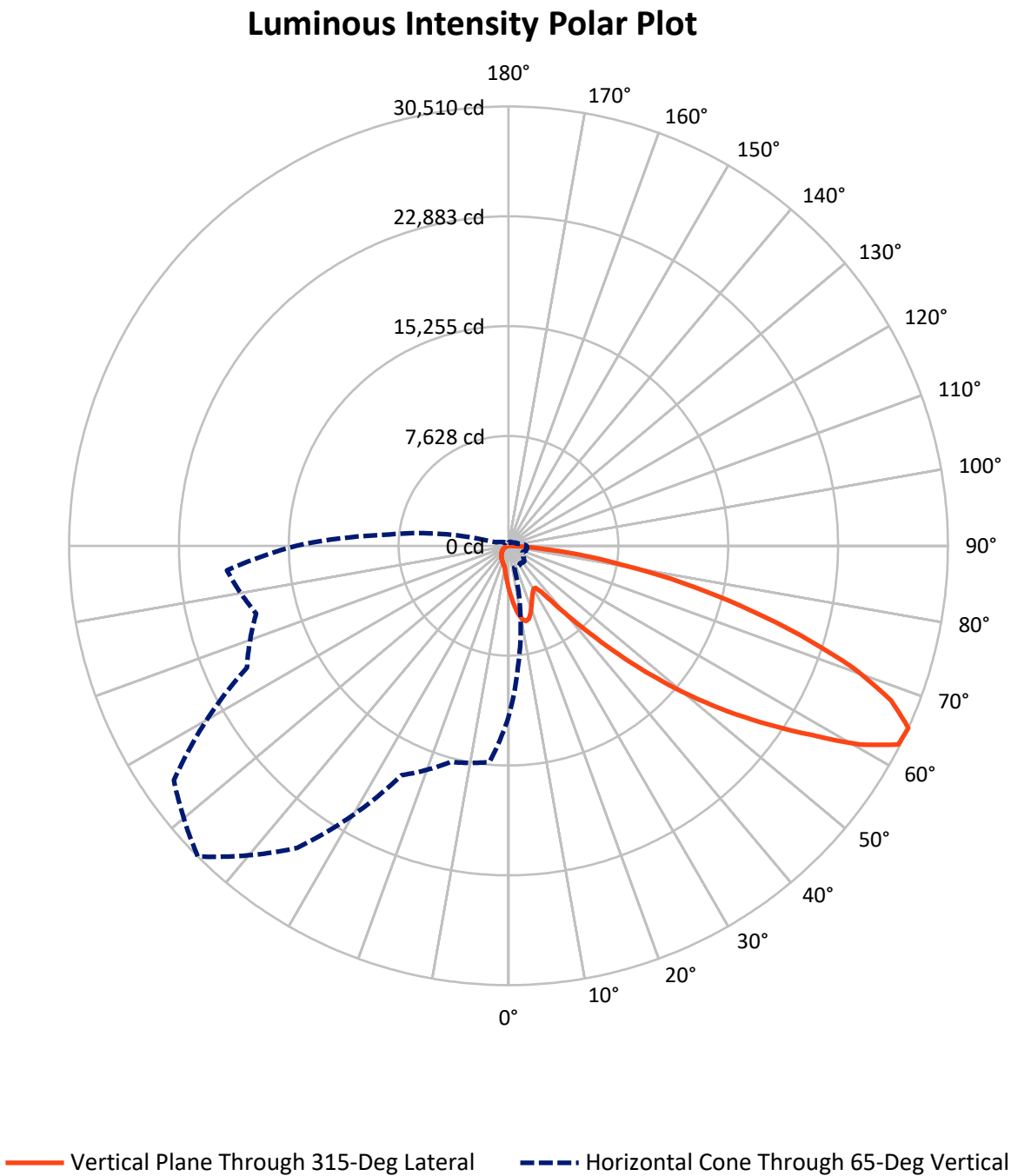
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
Type IV - Short - N/A

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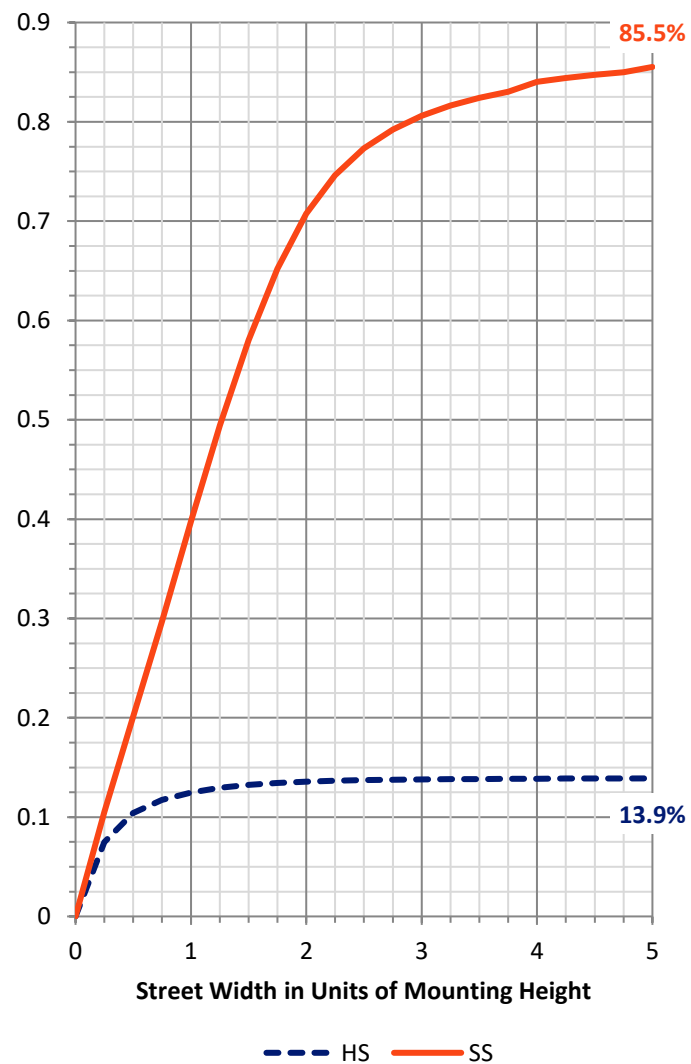
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3040.2	0.0	3040.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	18668.8	0.0	18668.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	21709.0	0.0	21709.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.0	1.4
10°-20°	887.2	4.1
20°-30°	1307.0	6.0
30°-40°	1679.1	7.7
40°-50°	2715.6	12.5
50°-60°	4762.1	21.9
60°-70°	5958.7	27.4
70°-80°	3482.0	16.0
80°-90°	621.2	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°	21709.0	100.0
0°-180°	21709.0	100.0

Coefficient of Utilization



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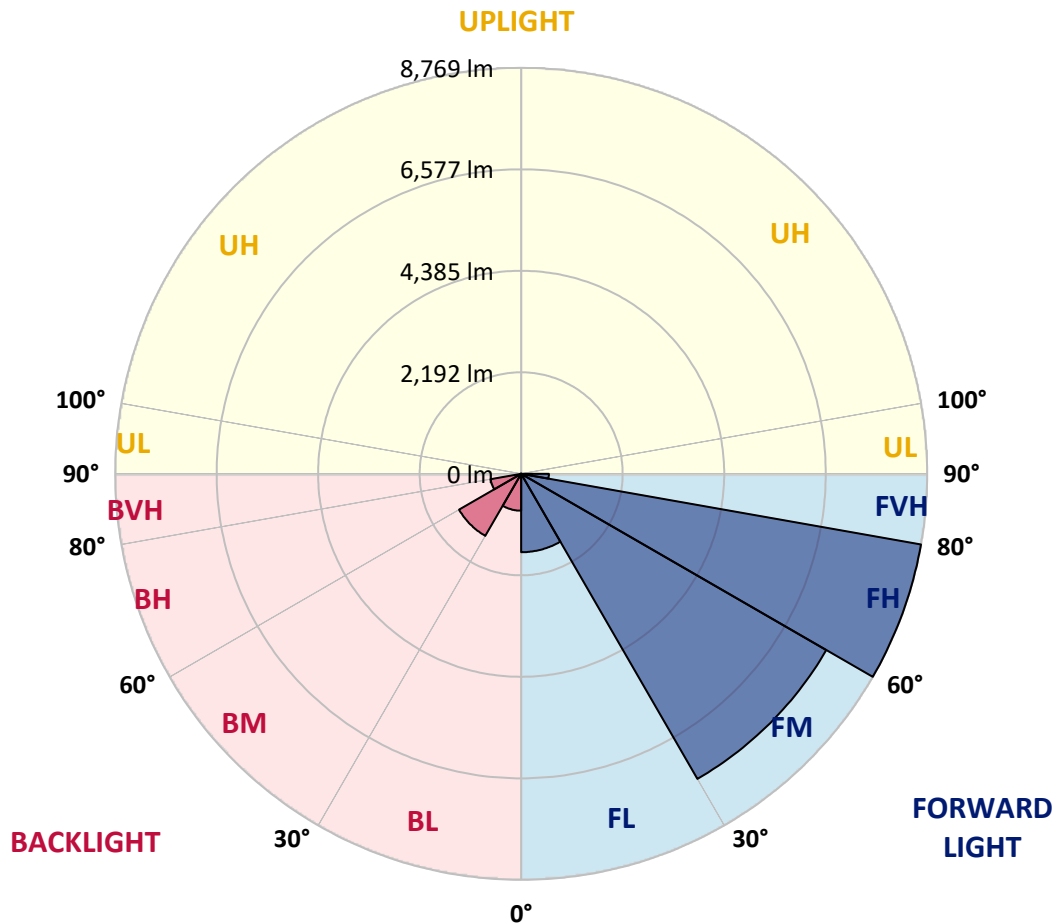
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1693.2	7.8			
FM	(30°-60°)	7608.8	35.0			
FH	(60°-80°)	8769.4	40.4			G4/12000
FVH	(80°-90°)	597.4	2.8			G4/750
BL	(0°-30°)	796.9	3.7	B2/1000		
BM	(30°-60°)	1548.1	7.1	B2/2500		
BH	(60°-80°)	671.3	3.1	B2/1000		G2/1000
BVH	(80°-90°)	23.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0
2.5°	3396.3	3338.0	3303.6	3218.4	3133.1	3064.3	2971.6	2910.3	2837.0	2766.7	2703.9
5°	3785.2	3691.0	3577.3	3421.8	3279.7	3134.6	2994.0	2855.0	2708.4	2573.8	2491.5
7.5°	4114.2	3978.1	3777.7	3571.3	3390.4	3215.4	3050.9	2866.9	2689.0	2478.1	2365.9
10°	4365.4	4192.0	3928.7	3658.1	3450.2	3273.7	3113.7	2958.1	2778.7	2524.4	2383.9
12.5°	4518.0	4332.5	4020.0	3702.9	3465.1	3267.7	3143.6	3074.8	3004.5	2751.8	2587.3
15°	4630.1	4429.7	4084.3	3734.3	3430.7	3188.5	3097.2	3166.0	3246.8	3085.3	2895.3
17.5°	4746.8	4535.9	4168.0	3747.8	3338.0	3034.4	2995.5	3173.5	3360.4	3353.0	3164.5
20°	4857.5	4648.1	4241.3	3738.8	3188.5	2847.5	2881.9	3109.2	3326.0	3417.3	3315.6
22.5°	4984.6	4763.2	4311.6	3704.4	2994.0	2672.5	2780.2	3007.5	3197.4	3305.1	3273.7
25°	5140.1	4908.3	4410.3	3653.6	2784.7	2527.4	2677.0	2889.4	3043.4	3118.2	3116.7
27.5°	5307.6	5081.8	4541.9	3626.6	2615.7	2424.2	2560.3	2748.8	2886.4	2938.7	2938.7
30°	5515.5	5283.7	4697.4	3596.7	2505.0	2364.4	2439.2	2585.8	2720.4	2772.7	2772.7
32.5°	5742.8	5508.0	4847.0	3524.9	2437.7	2319.6	2321.1	2413.8	2536.4	2599.2	2608.2
35°	6027.0	5777.2	5007.0	3367.9	2383.9	2267.2	2205.9	2250.8	2352.5	2427.2	2446.7
37.5°	6432.2	6130.2	5202.9	3143.6	2304.6	2186.5	2084.8	2095.2	2173.0	2255.2	2285.2
40°	6991.6	6604.2	5433.2	2910.3	2190.9	2072.8	1951.7	1947.2	2004.0	2084.8	2117.7
42.5°	7748.3	7230.9	5709.9	2687.5	2081.8	1935.2	1811.1	1803.6	1848.5	1918.8	1953.2
45°	8747.3	8032.5	6049.4	2496.0	1996.5	1800.6	1678.0	1675.0	1712.4	1773.7	1809.6
47.5°	10026.0	9146.6	6388.9	2365.9	1951.7	1694.4	1568.8	1574.8	1607.7	1663.0	1688.4
50°	11681.5	10598.8	6492.1	2300.1	1951.7	1637.6	1471.6	1501.5	1528.4	1570.3	1585.3
52.5°	13666.1	11992.6	6151.1	2240.3	1963.6	1645.1	1389.3	1453.6	1473.1	1509.0	1515.0
55°	15505.6	12676.1	5288.2	2158.0	1966.6	1691.4	1319.1	1414.8	1450.7	1464.1	1462.6
57.5°	16573.4	12441.3	4275.7	2019.0	1954.6	1722.8	1274.2	1366.9	1435.7	1444.7	1431.2
60°	16370.0	11617.2	3148.1	1912.8	1866.4	1710.9	1260.7	1293.6	1402.8	1416.3	1398.3
62.5°	14802.7	10235.4	2185.0	1830.5	1672.0	1658.5	1256.2	1178.5	1331.0	1363.9	1338.5
65°	11898.4	8057.9	1543.4	1576.3	1465.6	1544.9	1232.3	1058.8	1244.3	1289.1	1250.3
67.5°	8632.2	5452.7	1114.2	1277.2	1328.0	1360.9	1178.5	972.1	1145.6	1205.4	1154.5
70°	5539.4	2944.7	782.2	843.5	1118.7	1156.0	1085.7	894.3	1045.4	1114.2	1058.8
72.5°	3937.7	1739.3	562.3	590.7	898.8	963.1	955.6	807.6	928.7	1012.5	946.7
75°	2717.4	958.6	379.9	421.7	652.0	782.2	737.3	693.9	786.6	871.9	807.6
77.5°	1703.4	429.2	227.3	293.1	427.7	614.7	505.5	536.9	613.2	692.4	625.1
80°	948.2	166.0	127.1	194.4	233.3	447.2	279.7	345.5	451.6	508.5	454.6
82.5°	206.4	20.9	56.8	83.7	91.2	260.2	148.1	200.4	284.1	279.7	242.3
85°	0.0	0.0	10.5	12.0	6.0	112.2	53.8	65.8	92.7	86.7	65.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	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°	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0
2.5°	2691.9	2618.7	2564.8	2537.9	2515.5	2536.4	2548.4	2548.4	2599.2	2629.1	2641.1
5°	2439.2	2307.6	2207.4	2140.1	2099.7	2113.2	2128.1	2144.6	2208.9	2252.3	2280.7
7.5°	2264.2	2062.3	1909.8	1815.6	1766.2	1773.7	1784.2	1797.6	1860.4	1903.8	1941.2
10°	2231.3	1941.2	1725.8	1601.7	1541.9	1531.4	1525.4	1520.9	1558.3	1591.2	1621.1
12.5°	2365.9	1947.2	1646.6	1495.5	1422.2	1390.8	1354.9	1326.5	1332.5	1353.4	1390.8
15°	2606.7	2023.4	1621.1	1440.2	1349.0	1296.6	1254.7	1220.3	1212.9	1220.3	1226.3
17.5°	2881.9	2126.6	1618.2	1392.3	1278.7	1224.8	1190.4	1159.0	1148.6	1150.1	1157.5
20°	3064.3	2208.9	1609.2	1338.5	1211.4	1163.5	1133.6	1102.2	1091.7	1094.7	1096.2
22.5°	3082.3	2252.3	1595.7	1278.7	1144.1	1103.7	1073.8	1045.4	1043.9	1043.9	1052.8
25°	2985.1	2252.3	1567.3	1224.8	1079.8	1043.9	1017.0	982.6	988.5	991.5	1003.5
27.5°	2834.0	2198.4	1513.5	1181.5	1024.4	987.0	960.1	928.7	936.2	940.7	954.1
30°	2684.5	2129.6	1449.2	1132.1	972.1	928.7	909.3	882.4	885.3	891.3	906.3
32.5°	2545.4	2056.3	1372.9	1091.7	919.7	876.4	861.4	831.5	836.0	842.0	858.4
35°	2407.8	1975.6	1283.2	1043.9	871.9	828.5	816.6	782.2	785.1	794.1	812.1
37.5°	2259.7	1890.3	1209.9	996.0	825.5	780.7	768.7	732.8	735.8	746.3	767.2
40°	2104.2	1806.6	1138.1	945.2	776.2	731.3	720.8	682.0	684.9	696.9	719.3
42.5°	1947.2	1715.4	1082.8	879.4	725.3	677.5	667.0	631.1	635.6	649.1	671.5
45°	1802.1	1606.2	1046.9	806.1	677.5	623.6	613.2	580.3	589.2	604.2	626.6
47.5°	1678.0	1494.0	1031.9	744.8	626.6	568.3	559.3	532.4	547.4	563.8	581.8
50°	1571.8	1386.4	1012.5	682.0	578.8	520.4	511.5	493.5	513.0	529.4	545.9
52.5°	1495.5	1263.7	970.6	625.1	536.9	480.1	477.1	468.1	486.0	501.0	516.0
55°	1429.7	1136.6	903.3	575.8	499.5	445.7	448.7	444.2	459.1	471.1	484.5
57.5°	1369.9	1025.9	818.1	536.9	459.1	415.8	424.7	418.7	426.2	433.7	450.2
60°	1298.1	913.8	716.4	493.5	411.3	385.8	396.3	379.9	378.4	381.4	385.8
62.5°	1191.9	762.7	610.2	439.7	369.4	352.9	357.4	326.0	302.1	302.1	306.6
65°	1043.9	613.2	511.5	379.9	321.5	308.1	305.1	260.2	227.3	224.3	237.8
67.5°	871.9	504.0	424.7	320.0	267.7	258.7	261.7	228.8	195.9	192.9	207.9
70°	710.4	417.3	342.5	255.7	206.4	215.4	228.8	195.9	164.5	160.0	173.5
72.5°	577.3	332.0	267.7	195.9	152.5	178.0	194.4	160.0	130.1	127.1	139.1
75°	445.7	243.8	191.4	133.1	110.7	137.6	152.5	116.7	92.7	88.2	98.7
77.5°	297.6	151.0	107.7	83.7	65.8	94.2	101.7	61.3	53.8	52.3	59.8
80°	181.0	70.3	46.4	40.4	22.4	34.4	40.4	25.4	28.4	29.9	35.9
82.5°	91.2	19.4	7.5	1.5	0.0	0.0	12.0	6.0	12.0	15.0	22.4
85°	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	7.5	13.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
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°	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0
2.5°	2724.8	2787.7	2847.5	2943.2	3041.9	3139.1	3237.8	3333.5	3367.9	3393.3	3450.2
5°	2410.8	2528.9	2666.5	2856.4	3059.8	3269.2	3481.6	3676.0	3764.2	3824.1	3958.7
7.5°	2086.3	2240.3	2437.7	2723.3	3041.9	3375.4	3708.9	4015.5	4157.6	4272.7	4477.6
10°	1764.7	1932.2	2182.0	2508.0	2938.7	3417.3	3877.9	4299.6	4483.6	4628.6	4906.8
12.5°	1482.1	1639.1	1900.8	2261.2	2777.2	3384.4	3975.1	4482.1	4698.9	4861.9	5167.0
15°	1283.2	1393.8	1625.6	2014.5	2585.8	3278.2	3981.1	4568.8	4806.6	4977.1	5241.8
17.5°	1172.5	1209.9	1360.9	1763.2	2373.4	3139.1	3925.7	4598.7	4853.0	5011.5	5195.4
20°	1112.7	1118.7	1160.5	1437.2	2101.2	3009.0	3873.4	4628.6	4896.3	5029.4	5084.8
22.5°	1064.8	1064.8	1075.3	1175.5	1749.8	2853.5	3857.0	4681.0	4956.2	5038.4	4924.8
25°	1021.4	1021.4	1024.4	1051.4	1386.4	2615.7	3846.5	4761.7	5038.4	5060.9	4748.3
27.5°	976.6	978.1	978.1	993.0	1117.2	2292.6	3801.6	4866.4	5137.1	5090.8	4579.3
30°	931.7	934.7	934.7	945.2	988.5	1914.3	3713.4	4992.1	5265.7	5129.6	4411.8
32.5°	886.8	889.8	889.8	898.8	930.2	1528.4	3602.7	5107.2	5395.8	5146.1	4256.3
35°	840.5	845.0	842.0	853.9	886.8	1215.9	3462.1	5222.4	5536.4	5198.4	4180.0
37.5°	794.1	797.1	795.6	807.6	845.0	1049.9	3299.1	5309.1	5727.9	5315.1	4271.2
40°	747.8	746.3	746.3	759.7	800.1	1002.0	3094.2	5446.7	6003.0	5520.0	4669.0
42.5°	699.9	699.9	696.9	711.9	761.2	966.1	2898.3	5693.5	6403.8	5846.0	5374.9
45°	656.5	655.0	649.1	662.5	723.8	903.3	2829.5	6154.1	6996.1	6373.9	6228.9
47.5°	614.7	613.2	598.2	610.2	679.0	846.5	3086.8	6907.8	7817.1	7150.1	7029.0
50°	577.3	578.8	550.4	560.8	634.1	803.1	3644.6	7885.9	8907.3	8195.5	7787.2
52.5°	542.9	542.9	505.5	511.5	578.8	764.2	4175.5	8946.2	10346.0	9653.6	8671.0
55°	508.5	505.5	463.6	466.6	523.4	708.9	4254.8	9981.1	12308.2	11847.5	9879.4
57.5°	469.6	463.6	424.7	424.7	472.6	668.5	3688.0	10776.7	14742.9	15071.9	11621.7
60°	421.7	417.3	391.8	384.3	432.2	704.4	2602.2	10869.5	16313.2	19359.5	14958.2
62.5°	360.4	366.4	352.9	342.5	393.3	731.3	1541.9	10123.2	15933.3	20723.5	18954.3
65°	284.1	308.1	305.1	297.6	432.2	616.2	910.8	8690.5	14768.3	19622.8	18139.2
67.5°	242.3	258.7	254.2	254.2	453.1	468.1	572.8	6789.7	13165.1	18317.2	16202.5
70°	206.4	222.8	206.4	206.4	342.5	284.1	396.3	4740.8	11434.8	16872.5	14931.3
72.5°	170.5	186.9	169.0	157.0	273.7	212.4	290.1	2962.6	9792.7	15368.0	14060.9
75°	130.1	149.6	136.1	121.1	181.0	158.5	219.8	1721.3	8113.2	13148.6	12821.1
77.5°	82.3	107.7	101.7	85.2	133.1	115.2	158.5	1024.4	6260.3	10274.2	11028.0
80°	50.8	55.3	56.8	53.8	76.3	77.8	107.7	583.3	4284.7	7160.6	8615.7
82.5°	32.9	32.9	25.4	28.4	37.4	44.9	61.3	219.8	2518.5	4359.5	5997.0
85°	23.9	20.9	13.5	13.5	17.9	22.4	23.9	67.3	1021.4	1721.3	2345.0
87.5°	12.0	10.5	4.5	6.0	9.0	7.5	6.0	3.0	257.2	550.4	385.8
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0	3006.0
2.5°	3480.1	3526.4	3529.4	3529.4	3489.1	3487.6	3405.3	3396.3
5°	4097.7	4127.6	4135.1	4120.2	4039.4	3979.6	3819.6	3785.2
7.5°	4663.0	4722.9	4722.9	4687.0	4555.4	4432.7	4200.9	4114.2
10°	5114.7	5183.5	5168.5	5095.2	4929.2	4760.3	4479.1	4365.4
12.5°	5334.5	5404.8	5365.9	5282.2	5120.7	4942.7	4646.6	4518.0
15°	5330.0	5310.6	5270.2	5259.8	5182.0	5047.4	4770.7	4630.1
17.5°	5140.1	4975.6	4944.2	5048.9	5147.6	5114.7	4878.4	4746.8
20°	4839.5	4552.4	4524.0	4724.4	5005.5	5149.1	4978.6	4857.5
22.5°	4522.5	4212.9	4147.1	4368.4	4791.7	5159.6	5105.7	4984.6
25°	4221.9	3910.8	3845.0	4051.4	4553.9	5141.6	5243.3	5140.1
27.5°	3970.6	3670.0	3608.7	3815.1	4325.1	5090.8	5380.9	5307.6
30°	3776.2	3498.0	3453.2	3652.1	4127.6	5027.9	5555.9	5515.5
32.5°	3662.5	3459.1	3475.6	3638.6	4021.5	4959.2	5723.4	5742.8
35°	3774.7	3783.7	3927.2	3994.5	4120.2	4948.7	5950.7	6027.0
37.5°	4332.5	4643.6	4941.2	4885.9	4603.2	5069.8	6290.2	6432.2
40°	5282.2	5920.8	6403.8	6193.0	5481.1	5440.7	6779.2	6991.6
42.5°	6442.7	7525.5	8321.1	7755.8	6613.2	6089.8	7477.6	7748.3
45°	7667.5	9504.1	10757.3	9581.8	7820.1	6999.0	8535.0	8747.3
47.5°	8958.2	11908.9	13530.0	11606.8	8938.7	8034.0	9976.6	10026.0
50°	10370.0	14545.5	16356.5	13630.2	10018.5	9219.9	11738.4	11681.5
52.5°	11714.4	17256.8	19123.3	15662.6	10966.7	10691.5	13782.7	13666.1
55°	12997.6	19966.7	21906.4	17615.8	11861.0	12635.7	16211.5	15505.6
57.5°	14485.6	22402.9	24774.8	19577.9	13111.3	15160.1	18927.3	16573.4
60°	16685.6	25171.2	28018.6	22266.8	15489.1	17813.2	19900.9	16370.0
62.5°	19494.1	27716.5	30377.1	24902.0	17877.5	18312.7	18466.7	14802.7
65°	20040.0	28361.1	30510.2	25606.4	17569.4	15534.0	15076.4	11898.4
67.5°	18592.3	27196.1	28649.7	24294.8	15541.5	12004.6	11313.6	8632.2
70°	16968.2	24975.2	25407.4	22065.0	13669.1	8829.6	7640.6	5539.4
72.5°	15303.7	22012.6	21118.3	19162.1	12013.5	6429.3	5511.0	3937.7
75°	13326.6	18116.8	16634.7	15921.3	9946.7	5045.9	3987.1	2717.4
77.5°	10672.1	12752.3	12356.0	12341.1	7474.6	3686.5	2660.5	1703.4
80°	7528.5	8276.2	8074.3	9294.7	5014.5	2674.0	1601.7	948.2
82.5°	3644.6	4576.3	4697.4	5534.9	2439.2	1573.3	369.4	206.4
85°	1426.7	2207.4	1861.9	2101.2	684.9	438.2	9.0	0.0
87.5°	160.0	255.7	234.8	185.4	83.7	17.9	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)