

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: P952716

Luminaire Tested: **GALN-SB6C-727-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952716
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-SB6C-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA 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: 32148 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 300.9
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

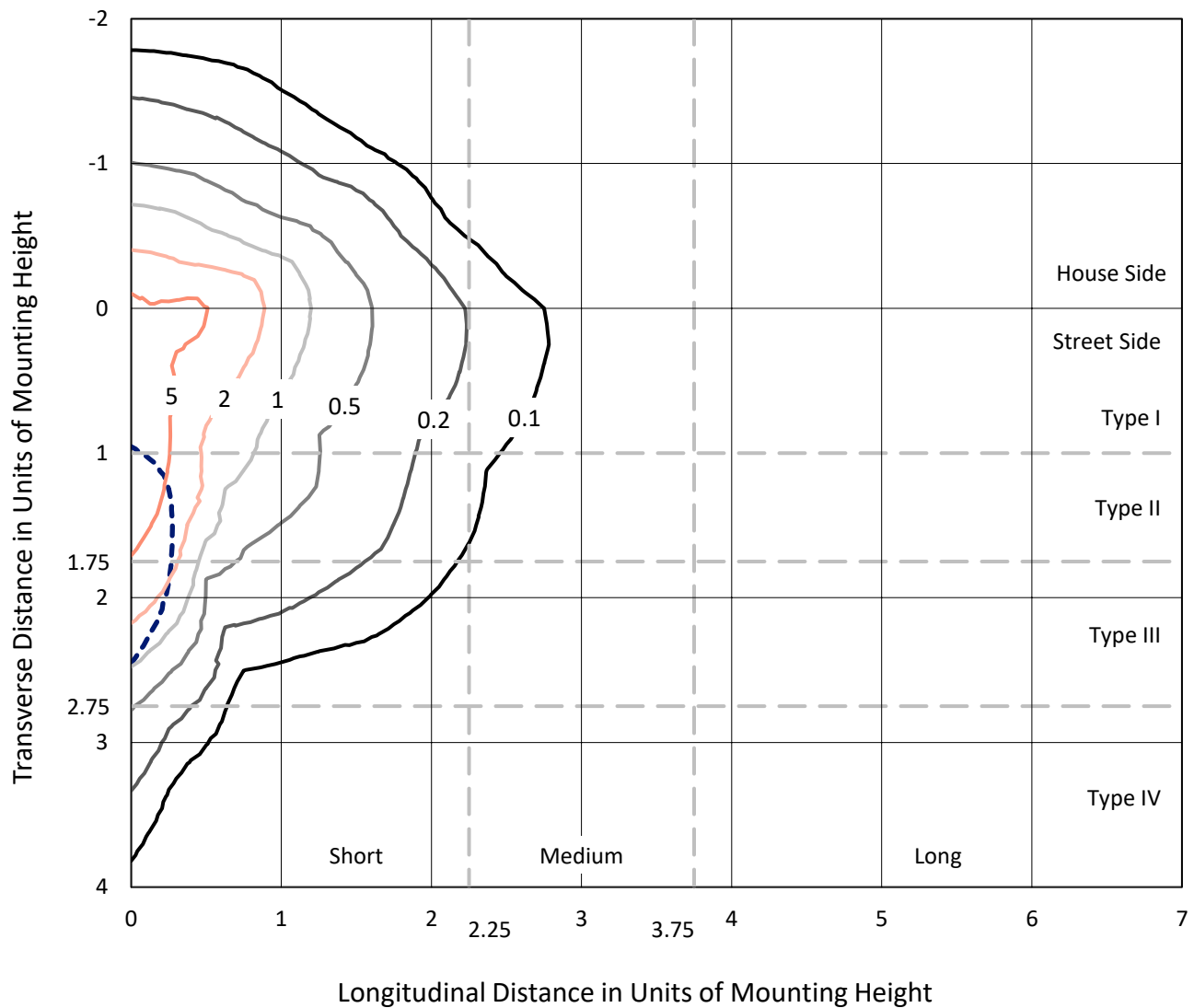


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Iso-Footcandle Lines of Horizontal Illumination

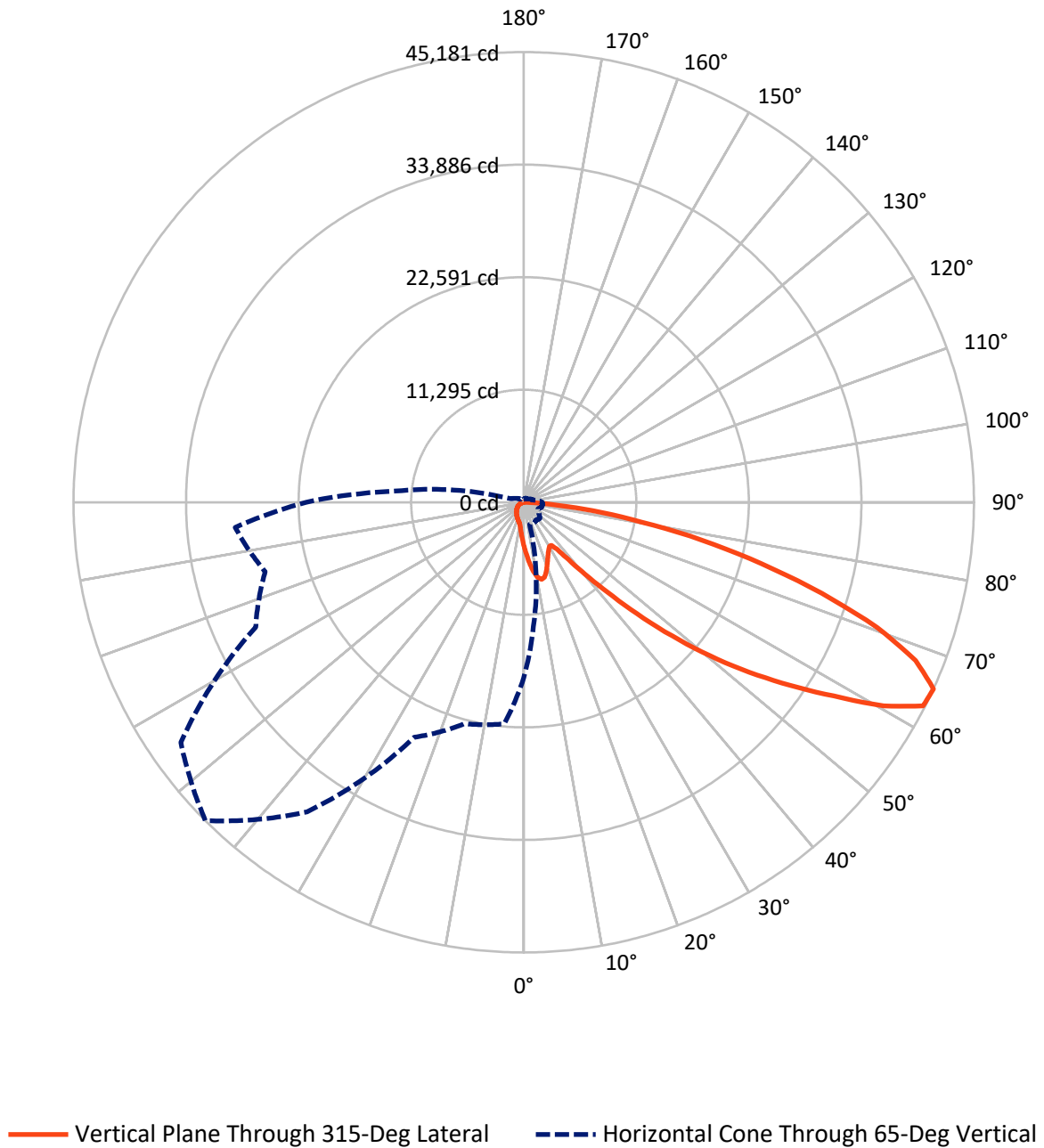
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	4502.1	0.0	4502.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	27645.9	0.0	27645.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	32148.0	0.0	32148.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.3	1.4
10°-20°	1313.8	4.1
20°-30°	1935.5	6.0
30°-40°	2486.5	7.7
40°-50°	4021.5	12.5
50°-60°	7052.1	21.9
60°-70°	8824.1	27.4
70°-80°	5156.4	16.0
80°-90°	920.0	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°	32148.0	100.0
0°-180°	32148.0	100.0

Coefficient of Utilization



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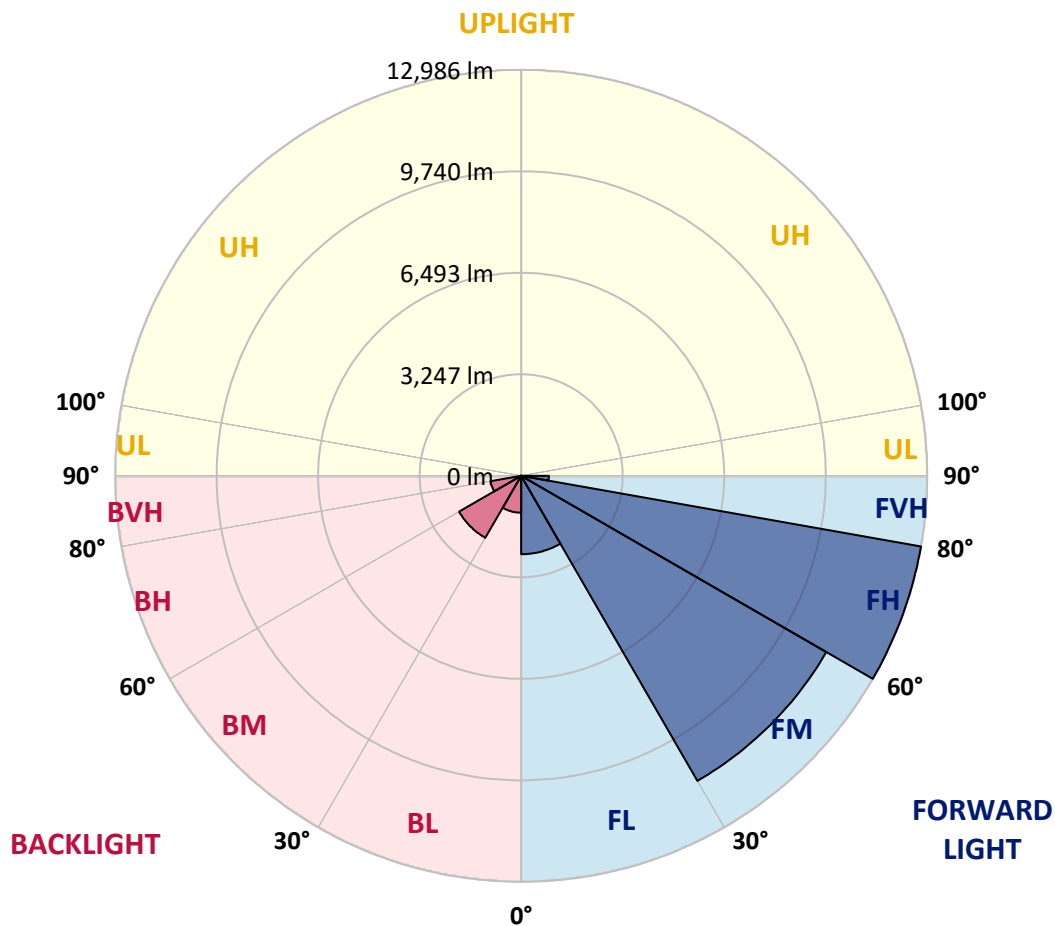
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2507.4	7.8			
FM	(30°-60°)	11267.5	35.0			
FH	(60°-80°)	12986.3	40.4			G5
FVH	(80°-90°)	884.6	2.8			G5
BL	(0°-30°)	1180.1	3.7	B3/2500		
BM	(30°-60°)	2292.6	7.1	B2/2500		
BH	(60°-80°)	994.1	3.1	B2/1000		G2/1000
BVH	(80°-90°)	35.3	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°	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5
2.5°	5029.5	4943.1	4892.2	4766.0	4639.7	4537.8	4400.5	4309.7	4201.2	4097.1	4004.1
5°	5605.3	5465.8	5297.5	5067.1	4856.8	4641.9	4433.8	4227.8	4010.8	3811.4	3689.6
7.5°	6092.5	5891.0	5594.2	5288.6	5020.6	4761.5	4517.9	4245.5	3982.0	3669.7	3503.6
10°	6464.6	6207.7	5817.9	5417.1	5109.2	4847.9	4610.9	4380.6	4114.8	3738.3	3530.2
12.5°	6690.5	6415.9	5953.0	5483.5	5131.4	4839.0	4655.2	4553.3	4449.3	4075.0	3831.4
15°	6856.6	6559.8	6048.2	5530.0	5080.4	4721.7	4586.6	4688.4	4808.0	4568.8	4287.6
17.5°	7029.3	6717.1	6172.3	5549.9	4943.1	4493.5	4436.0	4699.5	4976.3	4965.3	4686.2
20°	7193.2	6883.2	6280.8	5536.7	4721.7	4216.7	4267.7	4604.3	4925.4	5060.5	4909.9
22.5°	7381.5	7053.7	6384.9	5485.7	4433.8	3957.6	4117.1	4453.7	4734.9	4894.4	4847.9
25°	7611.8	7268.5	6531.0	5410.4	4123.7	3742.8	3964.2	4278.7	4506.8	4617.6	4615.4
27.5°	7859.8	7525.4	6725.9	5370.6	3873.4	3590.0	3791.5	4070.5	4274.3	4351.8	4351.8
30°	8167.7	7824.4	6956.3	5326.3	3709.6	3501.4	3612.1	3829.1	4028.5	4106.0	4106.0
32.5°	8504.3	8156.6	7177.7	5220.0	3609.9	3434.9	3437.2	3574.5	3756.1	3849.1	3862.4
35°	8925.1	8555.2	7414.7	4987.4	3530.2	3357.4	3266.6	3333.1	3483.7	3594.4	3623.2
37.5°	9525.3	9077.9	7704.8	4655.2	3412.8	3237.8	3087.2	3102.7	3217.9	3339.7	3384.0
40°	10353.5	9779.9	8045.9	4309.7	3244.5	3069.5	2890.1	2883.5	2967.6	3087.2	3136.0
42.5°	11474.2	10707.9	8455.6	3979.7	3082.8	2865.8	2682.0	2670.9	2737.3	2841.4	2892.3
45°	12953.6	11894.9	8958.3	3696.3	2956.6	2666.5	2484.9	2480.4	2535.8	2626.6	2679.7
47.5°	14847.1	13544.9	9461.0	3503.6	2890.1	2509.2	2323.2	2332.0	2380.8	2462.7	2500.4
50°	17298.7	15695.3	9613.8	3406.1	2890.1	2425.1	2179.2	2223.5	2263.4	2325.4	2347.5
52.5°	20237.6	17759.4	9108.9	3317.6	2907.9	2436.1	2057.4	2152.7	2181.4	2234.6	2243.5
55°	22961.6	18771.5	7831.0	3195.8	2912.3	2504.8	1953.3	2095.1	2148.2	2168.2	2165.9
57.5°	24542.9	18423.8	6331.7	2989.8	2894.6	2551.3	1886.9	2024.2	2126.1	2139.4	2119.4
60°	24241.7	17203.5	4661.9	2832.6	2763.9	2533.6	1867.0	1915.7	2077.4	2097.3	2070.7
62.5°	21920.7	15157.1	3235.6	2710.7	2476.0	2456.1	1860.3	1745.2	1971.0	2019.8	1982.1
65°	17619.8	11932.6	2285.5	2334.3	2170.4	2287.7	1824.9	1568.0	1842.6	1909.0	1851.5
67.5°	12783.0	8074.7	1649.9	1891.3	1966.6	2015.3	1745.2	1439.5	1696.4	1785.0	1709.7
70°	8203.1	4360.7	1158.3	1249.1	1656.6	1711.9	1607.8	1324.4	1548.0	1649.9	1568.0
72.5°	5831.2	2575.7	832.7	874.8	1331.0	1426.2	1415.2	1195.9	1375.3	1499.3	1401.9
75°	4024.0	1419.6	562.5	624.5	965.6	1158.3	1091.8	1027.6	1164.9	1291.1	1195.9
77.5°	2522.5	635.6	336.6	434.1	633.4	910.2	748.6	795.1	908.0	1025.4	925.7
80°	1404.1	245.8	188.2	287.9	345.5	662.2	414.1	511.6	668.8	753.0	673.3
82.5°	305.6	31.0	84.2	124.0	135.1	385.4	219.3	296.8	420.8	414.1	358.8
85°	0.0	0.0	15.5	17.7	8.9	166.1	79.7	97.4	137.3	128.5	97.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	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°	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5
2.5°	3986.4	3877.9	3798.1	3758.3	3725.1	3756.1	3773.8	3773.8	3849.1	3893.4	3911.1
5°	3612.1	3417.2	3268.8	3169.2	3109.4	3129.3	3151.5	3175.8	3271.1	3335.3	3377.4
7.5°	3353.0	3054.0	2828.1	2688.6	2615.5	2626.6	2642.1	2662.0	2755.0	2819.3	2874.6
10°	3304.3	2874.6	2555.7	2371.9	2283.3	2267.8	2259.0	2252.3	2307.7	2356.4	2400.7
12.5°	3503.6	2883.5	2438.3	2214.7	2106.1	2059.6	2006.5	1964.4	1973.3	2004.3	2059.6
15°	3860.2	2996.4	2400.7	2132.7	1997.6	1920.1	1858.1	1807.2	1796.1	1807.2	1816.0
17.5°	4267.7	3149.2	2396.3	2061.8	1893.5	1813.8	1762.9	1716.4	1700.9	1703.1	1714.1
20°	4537.8	3271.1	2383.0	1982.1	1793.9	1723.0	1678.7	1632.2	1616.7	1621.1	1623.3
22.5°	4564.4	3335.3	2363.0	1893.5	1694.2	1634.4	1590.1	1548.0	1545.8	1545.8	1559.1
25°	4420.5	3335.3	2321.0	1813.8	1599.0	1545.8	1506.0	1455.0	1463.9	1468.3	1486.0
27.5°	4196.8	3255.6	2241.2	1749.6	1517.0	1461.7	1421.8	1375.3	1386.4	1393.0	1413.0
30°	3975.3	3153.7	2146.0	1676.5	1439.5	1375.3	1346.5	1306.7	1311.1	1319.9	1342.1
32.5°	3769.4	3045.2	2033.1	1616.7	1362.0	1297.8	1275.6	1231.4	1238.0	1246.9	1271.2
35°	3565.6	2925.6	1900.2	1545.8	1291.1	1226.9	1209.2	1158.3	1162.7	1176.0	1202.6
37.5°	3346.4	2799.3	1791.7	1475.0	1222.5	1156.1	1138.3	1085.2	1089.6	1105.1	1136.1
40°	3116.0	2675.3	1685.4	1399.7	1149.4	1083.0	1067.5	1009.9	1014.3	1032.0	1065.3
42.5°	2883.5	2540.2	1603.4	1302.2	1074.1	1003.2	987.7	934.6	941.2	961.2	994.4
45°	2668.7	2378.5	1550.3	1193.7	1003.2	923.5	908.0	859.3	872.6	894.7	927.9
47.5°	2484.9	2212.4	1528.1	1102.9	927.9	841.6	828.3	788.4	810.6	834.9	861.5
50°	2327.6	2053.0	1499.3	1009.9	857.1	770.7	757.4	730.8	759.6	784.0	808.4
52.5°	2214.7	1871.4	1437.3	925.7	795.1	710.9	706.5	693.2	719.8	741.9	764.1
55°	2117.2	1683.1	1337.7	852.6	739.7	660.0	664.4	657.8	679.9	697.6	717.6
57.5°	2028.6	1519.3	1211.4	795.1	679.9	615.7	629.0	620.1	631.2	642.3	666.6
60°	1922.3	1353.2	1060.8	730.8	609.0	571.4	586.9	562.5	560.3	564.7	571.4
62.5°	1765.1	1129.5	903.6	651.1	547.0	522.7	529.3	482.8	447.4	447.4	454.0
65°	1545.8	908.0	757.4	562.5	476.2	456.2	451.8	385.4	336.6	332.2	352.1
67.5°	1291.1	746.3	629.0	473.9	396.4	383.1	387.6	338.8	290.1	285.7	307.8
70°	1052.0	617.9	507.2	378.7	305.6	318.9	338.8	290.1	243.6	237.0	256.9
72.5°	854.9	491.7	396.4	290.1	225.9	263.5	287.9	237.0	192.7	188.2	206.0
75°	660.0	361.0	283.5	197.1	163.9	203.7	225.9	172.7	137.3	130.7	146.2
77.5°	440.7	223.7	159.5	124.0	97.4	139.5	150.6	90.8	79.7	77.5	88.6
80°	268.0	104.1	68.7	59.8	33.2	50.9	59.8	37.6	42.1	44.3	53.2
82.5°	135.1	28.8	11.1	2.2	0.0	0.0	17.7	8.9	17.7	22.1	33.2
85°	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	11.1	19.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9
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°	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5
2.5°	4035.1	4128.1	4216.7	4358.5	4504.6	4648.6	4794.7	4936.5	4987.4	5025.1	5109.2
5°	3570.0	3745.0	3948.7	4230.0	4531.2	4841.2	5155.7	5443.6	5574.3	5662.9	5862.2
7.5°	3089.5	3317.6	3609.9	4032.9	4504.6	4998.5	5492.4	5946.4	6156.8	6327.3	6630.7
10°	2613.3	2861.3	3231.2	3714.0	4351.8	5060.5	5742.6	6367.2	6639.6	6854.4	7266.3
12.5°	2194.7	2427.3	2814.8	3348.6	4112.6	5011.8	5886.6	6637.3	6958.5	7199.9	7651.7
15°	1900.2	2064.1	2407.3	2983.1	3829.1	4854.5	5895.4	6765.8	7117.9	7370.4	7762.4
17.5°	1736.3	1791.7	2015.3	2611.1	3514.7	4648.6	5813.5	6810.1	7186.6	7421.3	7693.7
20°	1647.7	1656.6	1718.6	2128.3	3111.6	4455.9	5736.0	6854.4	7250.8	7447.9	7529.8
22.5°	1576.8	1576.8	1592.3	1740.7	2591.2	4225.6	5711.6	6931.9	7339.4	7461.2	7292.9
25°	1512.6	1512.6	1517.0	1556.9	2053.0	3873.4	5696.1	7051.5	7461.2	7494.4	7031.5
27.5°	1446.2	1448.4	1448.4	1470.5	1654.4	3395.1	5629.7	7206.5	7607.4	7538.7	6781.3
30°	1379.7	1384.2	1384.2	1399.7	1463.9	2834.8	5499.0	7392.5	7797.8	7596.3	6533.3
32.5°	1313.3	1317.7	1317.7	1331.0	1377.5	2263.4	5335.1	7563.1	7990.5	7620.6	6302.9
35°	1244.6	1251.3	1246.9	1264.6	1313.3	1800.5	5126.9	7733.6	8198.7	7698.2	6190.0
37.5°	1176.0	1180.4	1178.2	1195.9	1251.3	1554.7	4885.5	7862.0	8482.2	7870.9	6325.1
40°	1107.3	1105.1	1105.1	1125.0	1184.8	1483.8	4582.1	8065.8	8889.7	8174.3	6914.2
42.5°	1036.5	1036.5	1032.0	1054.2	1127.3	1430.7	4292.0	8431.2	9483.2	8657.1	7959.5
45°	972.2	970.0	961.2	981.1	1071.9	1337.7	4190.1	9113.3	10360.2	9438.9	9224.1
47.5°	910.2	908.0	885.9	903.6	1005.5	1253.5	4571.1	10229.5	11576.0	10588.3	10408.9
50°	854.9	857.1	815.0	830.5	939.0	1189.3	5397.1	11677.9	13190.5	12136.3	11531.7
52.5°	803.9	803.9	748.6	757.4	857.1	1131.7	6183.3	13248.1	15321.0	14295.6	12840.6
55°	753.0	748.6	686.5	691.0	775.1	1049.7	6300.7	14780.6	18226.7	17544.5	14630.1
57.5°	695.4	686.5	629.0	629.0	699.8	990.0	5461.4	15958.8	21832.1	22319.4	17210.1
60°	624.5	617.9	580.2	569.2	640.0	1043.1	3853.5	16096.2	24157.5	28668.8	22151.0
62.5°	533.7	542.6	522.7	507.2	582.5	1083.0	2283.3	14991.0	23595.0	30688.6	28068.6
65°	420.8	456.2	451.8	440.7	640.0	912.4	1348.7	12869.4	21869.8	29058.6	26861.6
67.5°	358.8	383.1	376.5	376.5	671.0	693.2	848.2	10054.6	19495.7	27125.2	23993.6
70°	305.6	330.0	305.6	305.6	507.2	420.8	586.9	7020.5	16933.3	24985.8	22111.2
72.5°	252.5	276.8	250.3	232.5	405.3	314.5	429.6	4387.2	14501.6	22757.9	20822.2
75°	192.7	221.5	201.5	179.4	268.0	234.8	325.6	2549.1	12014.5	19471.3	18986.3
77.5°	121.8	159.5	150.6	126.2	197.1	170.5	234.8	1517.0	9270.6	15214.7	16330.9
80°	75.3	81.9	84.2	79.7	112.9	115.2	159.5	863.7	6345.0	10603.8	12758.7
82.5°	48.7	48.7	37.6	42.1	55.4	66.4	90.8	325.6	3729.5	6455.7	8880.8
85°	35.4	31.0	19.9	19.9	26.6	33.2	35.4	99.7	1512.6	2549.1	3472.6
87.5°	17.7	15.5	6.6	8.9	13.3	11.1	8.9	4.4	380.9	815.0	571.4
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5
2.5°	5153.5	5222.2	5226.6	5226.6	5166.8	5164.6	5042.8	5029.5
5°	6068.2	6112.5	6123.5	6101.4	5981.8	5893.2	5656.2	5605.3
7.5°	6905.3	6993.9	6993.9	6940.7	6745.9	6564.3	6221.0	6092.5
10°	7574.1	7676.0	7653.9	7545.4	7299.5	7049.3	6632.9	6464.6
12.5°	7899.7	8003.8	7946.2	7822.2	7583.0	7319.5	6881.0	6690.5
15°	7893.1	7864.3	7804.5	7789.0	7673.8	7474.5	7064.8	6856.6
17.5°	7611.8	7368.2	7321.7	7476.7	7622.9	7574.1	7224.2	7029.3
20°	7166.6	6741.4	6699.4	6996.1	7412.5	7625.1	7372.6	7193.2
22.5°	6697.1	6238.7	6141.3	6469.0	7095.8	7640.6	7560.9	7381.5
25°	6252.0	5791.3	5693.9	5999.5	6743.6	7614.0	7764.6	7611.8
27.5°	5879.9	5434.8	5344.0	5649.6	6404.8	7538.7	7968.4	7859.8
30°	5592.0	5180.1	5113.7	5408.2	6112.5	7445.7	8227.5	8167.7
32.5°	5423.7	5122.5	5146.9	5388.3	5955.2	7343.8	8475.5	8504.3
35°	5589.8	5603.1	5815.7	5915.4	6101.4	7328.3	8812.1	8925.1
37.5°	6415.9	6876.5	7317.2	7235.3	6816.7	7507.7	9314.9	9525.3
40°	7822.2	8767.8	9483.2	9170.9	8116.7	8056.9	10039.1	10353.5
42.5°	9540.8	11144.2	12322.4	11485.2	9793.2	9018.1	11073.3	11474.2
45°	11354.6	14074.2	15930.1	14189.3	11580.5	10364.6	12639.1	12953.6
47.5°	13265.8	17635.3	20036.0	17188.0	13237.0	11897.2	14774.0	14847.1
50°	15356.5	21539.8	24221.8	20184.4	14836.0	13653.4	17382.9	17298.7
52.5°	17347.4	25555.0	28318.9	23194.1	16240.1	15832.6	20410.3	20237.6
55°	19247.6	29567.9	32440.4	26086.5	17564.5	18711.7	24006.9	22961.6
57.5°	21451.2	33175.6	36688.1	28992.1	19415.9	22450.0	28028.8	24542.9
60°	24709.0	37275.0	41491.7	32974.1	22937.2	26378.8	29470.5	24241.7
62.5°	28868.1	41044.3	44984.2	36876.3	26474.1	27118.5	27346.6	21920.7
65°	29676.5	41998.8	45181.3	37919.4	26017.8	23003.7	22326.0	17619.8
67.5°	27532.7	40273.6	42426.3	35977.2	23014.8	17777.1	16753.9	12783.0
70°	25127.5	36984.8	37624.9	32675.1	20242.0	13075.4	11314.7	8203.1
72.5°	22662.6	32597.6	31273.2	28376.5	17790.4	9520.8	8161.0	5831.2
75°	19734.8	26828.4	24633.7	23577.3	14729.7	7472.3	5904.3	4024.0
77.5°	15803.8	18884.4	18297.5	18275.4	11068.9	5459.1	3939.9	2522.5
80°	11148.6	12255.9	11957.0	13764.1	7425.8	3959.8	2371.9	1404.1
82.5°	5397.1	6776.9	6956.3	8196.5	3612.1	2329.8	547.0	305.6
85°	2112.8	3268.8	2757.3	3111.6	1014.3	648.9	13.3	0.0
87.5°	237.0	378.7	347.7	274.6	124.0	26.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)