

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: P532060

Luminaire Tested: **GALN-SA7B-827-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532060
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-SA7B-827-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 21699 lumens
Efficiency: N/A
Efficacy: 75.9 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

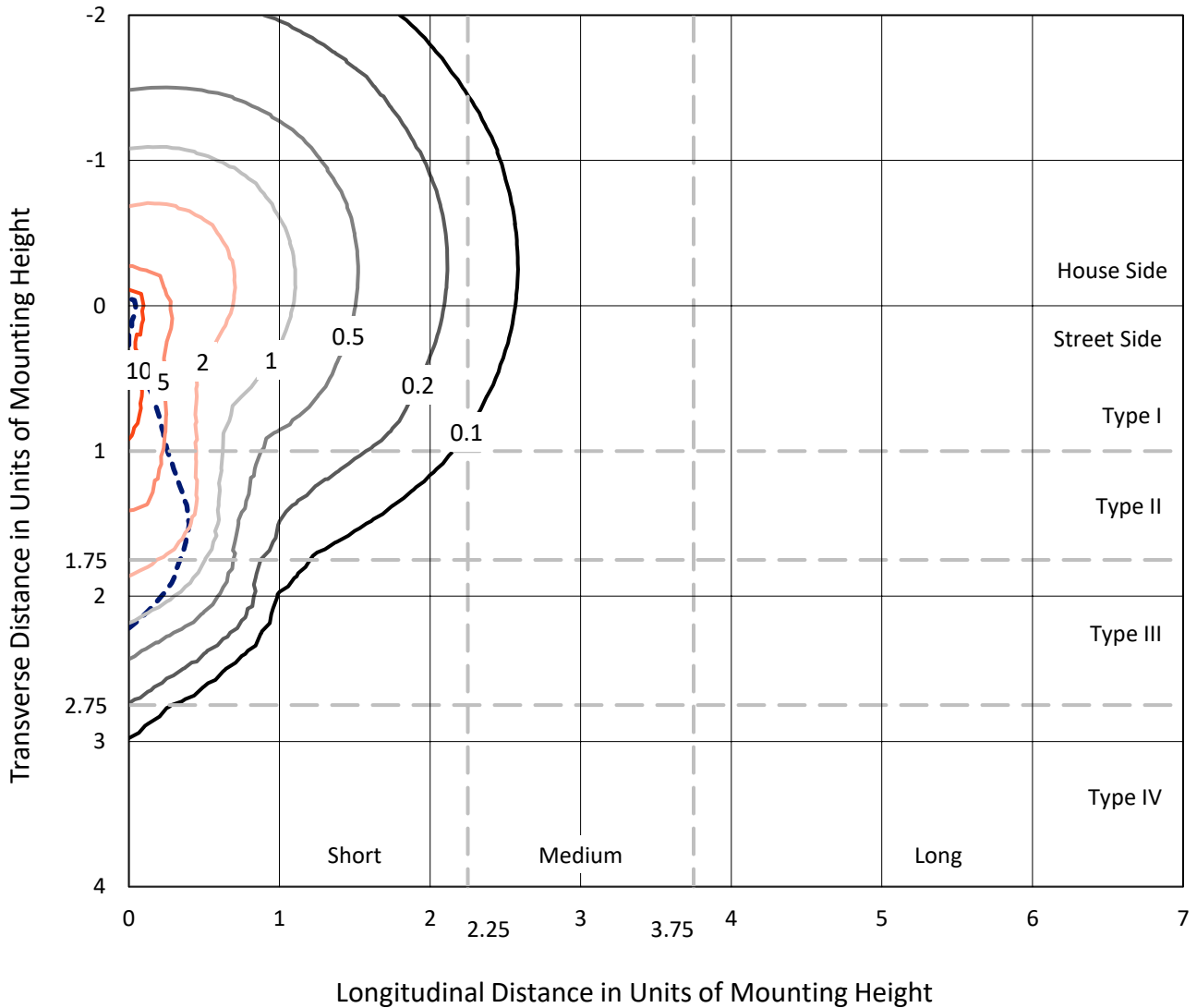
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

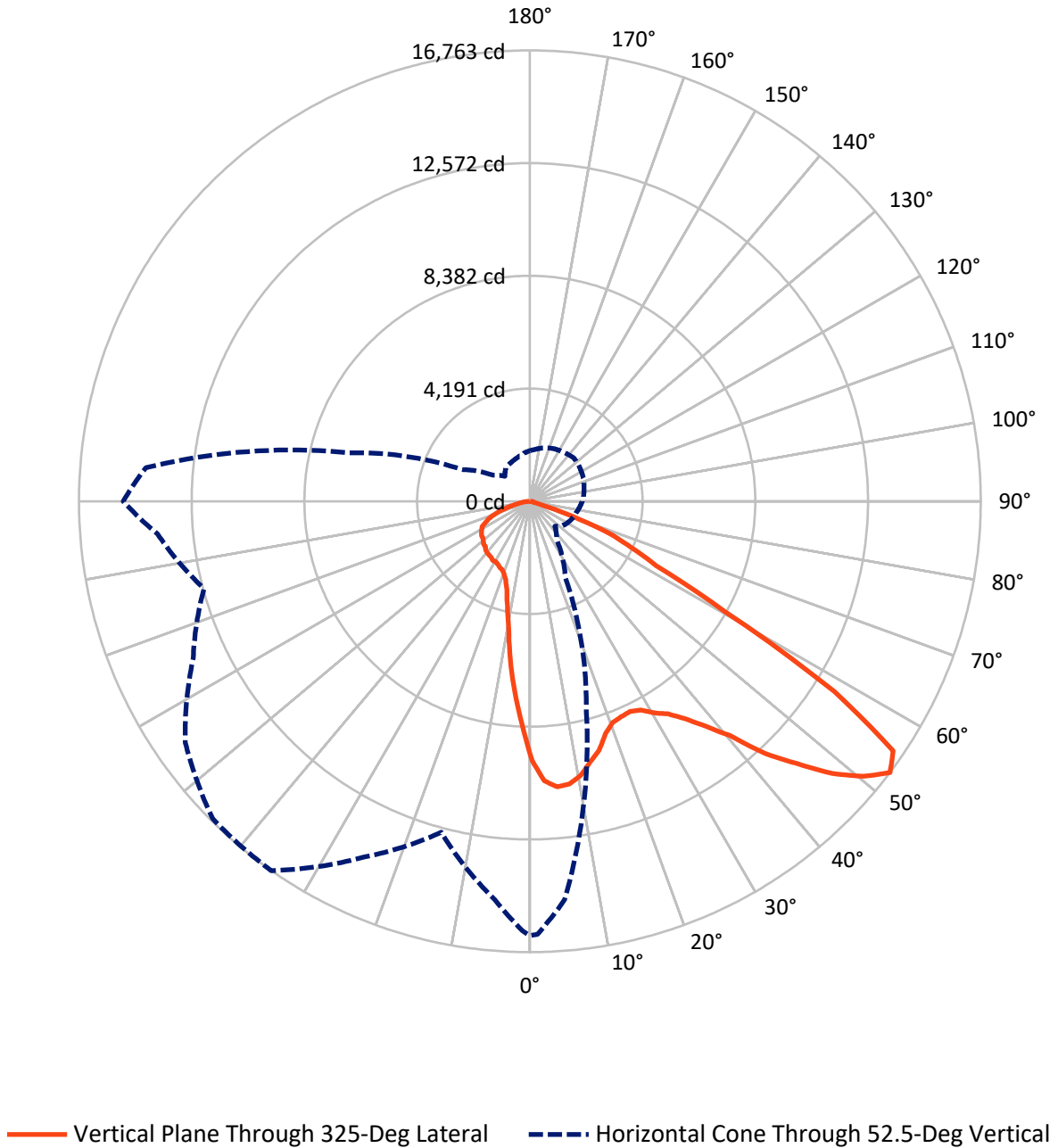
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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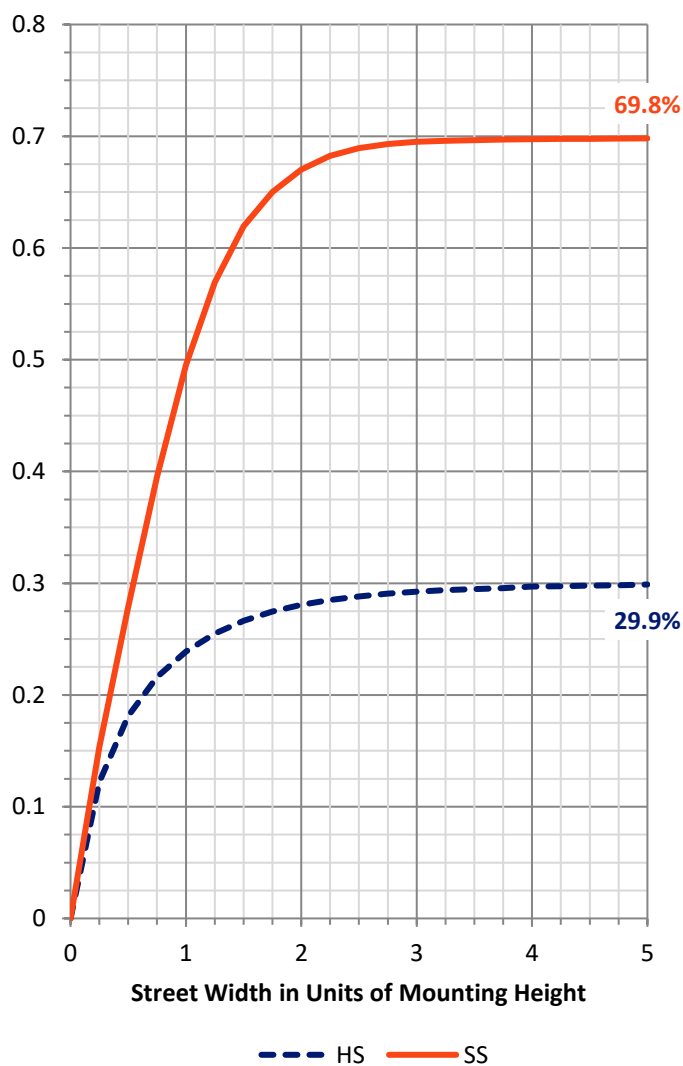
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6541.3	0.0	6541.3
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	15157.7	0.0	15157.7
	% Fixture	69.9	0.0	69.9
Total	Lumens	21699.0	0.0	21699.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	734.7	3.4
10°-20°	1592.7	7.3
20°-30°	2406.5	11.1
30°-40°	3477.4	16.0
40°-50°	4627.8	21.3
50°-60°	5176.4	23.9
60°-70°	2917.4	13.4
70°-80°	650.3	3.0
80°-90°	115.8	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°	21699.0	100.0
0°-180°	21699.0	100.0

Coefficient of Utilization

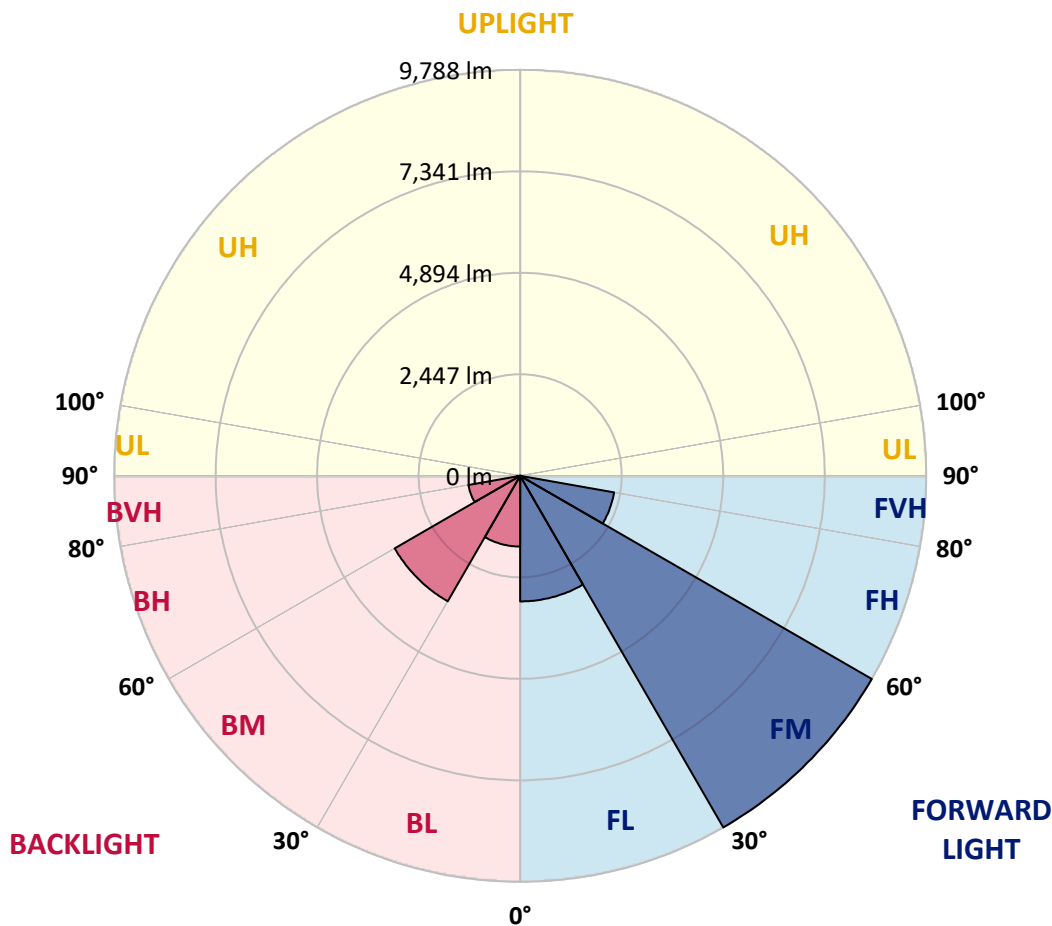


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3028.0	14.0			
FM (30°-60°)	9787.9	45.1			
FH (60°-80°)	2299.8	10.6			G2/5000
FVH (80°-90°)	41.9	0.2			G1/100
BL (0°-30°)	1705.8	7.9	B3/2500		
BM (30°-60°)	3493.7	16.1	B3/5000		
BH (60°-80°)	1267.9	5.8	B3/2500		G3/2500
BVH (80°-90°)	73.9	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°	9630.1	9630.1	9630.1	9630.1	9630.1	9630.1	9630.1	9630.1	9630.1	9630.1	9630.1
2.5°	9790.5	9947.8	9778.0	9476.0	9262.2	9067.2	8862.8	8821.9	8554.5	8507.4	8312.4
5°	9233.9	9199.3	8991.7	8595.4	8158.3	7762.0	7469.5	7186.4	6994.6	6771.3	6755.6
7.5°	8557.7	8356.4	8236.9	7636.2	7095.2	6472.5	6205.2	5774.3	5639.1	5437.8	5334.0
10°	7953.8	7806.0	7526.1	6925.4	6170.6	5758.6	5472.4	5239.7	5082.4	4874.8	4613.8
12.5°	7655.1	7595.3	7280.8	6349.9	5790.0	5349.7	5148.5	4922.0	4654.7	4321.3	4192.4
15°	7708.5	7507.2	7268.2	6239.8	5466.1	5041.5	4720.7	4437.7	4094.9	3777.2	3591.6
17.5°	8107.9	7953.8	7475.8	6309.0	5343.4	4730.2	4148.3	3730.0	3421.8	3135.6	3006.7
20°	8894.2	8670.9	8133.1	6397.0	5079.3	4296.1	3629.4	3113.6	2783.4	2632.4	2588.4
22.5°	9765.4	9633.3	8774.7	6595.2	4868.5	3893.6	3079.0	2563.2	2440.6	2399.7	2481.4
25°	10825.3	10482.5	9771.7	6919.1	4705.0	3550.8	2613.5	2327.3	2264.4	2305.3	2399.7
27.5°	11630.4	11539.2	10469.9	7224.2	4481.7	3138.8	2352.5	2163.8	2182.7	2223.6	2311.6
30°	12586.5	12124.2	11146.1	7434.9	4280.4	2855.7	2170.1	2119.8	2138.6	2207.8	2251.9
32.5°	13162.0	12989.1	11570.6	7752.6	4047.7	2610.4	2028.6	1981.4	2009.7	2113.5	2217.3
35°	13894.8	13552.0	12095.9	7834.3	3884.1	2512.9	1927.9	1893.3	1959.4	2031.7	2148.1
37.5°	14750.3	14514.4	12822.4	7777.7	3796.1	2412.3	1843.0	1827.3	1874.5	1975.1	2110.3
40°	15256.6	15184.3	13202.9	7812.3	3657.7	2324.2	1745.5	1764.4	1861.9	1940.5	2072.6
42.5°	15744.1	15272.4	13765.9	7799.7	3569.6	2204.7	1754.9	1732.9	1808.4	1899.6	2025.4
45°	15851.1	15382.4	13898.0	7711.7	3462.7	2088.3	1682.6	1692.0	1783.2	1896.5	1978.2
47.5°	15781.9	15435.9	14143.3	7686.5	3362.1	2006.5	1575.7	1688.9	1742.4	1833.6	1949.9
50°	15734.7	15715.8	14350.9	7806.0	3226.8	1877.6	1446.7	1648.0	1701.5	1792.7	1918.5
52.5°	16149.8	16109.0	14869.8	8120.5	3119.9	1739.2	1314.6	1544.2	1673.2	1761.2	1883.9
55°	16401.4	16222.2	15759.9	8507.4	2940.6	1556.8	1223.4	1415.3	1604.0	1682.6	1808.4
57.5°	14753.4	14630.8	14256.5	7941.3	2638.7	1317.8	1110.2	1283.2	1509.6	1632.3	1761.2
60°	12275.1	12083.3	11124.0	6749.3	1946.8	1025.3	1041.0	1179.4	1484.5	1531.6	1682.6
62.5°	11573.8	11098.9	9793.7	5431.5	1493.9	880.6	934.1	1085.0	1352.4	1431.0	1582.0
65°	9183.6	8831.3	7007.2	3921.9	1000.1	764.2	852.3	978.1	1166.8	1320.9	1459.3
67.5°	5749.2	5412.6	3739.5	1855.6	698.2	654.2	761.1	893.2	1047.3	1185.7	1339.8
70°	3003.5	2635.6	1726.6	669.9	481.2	534.7	635.3	761.1	912.1	1025.3	1144.8
72.5°	1119.6	908.9	563.0	289.3	333.4	408.9	515.8	607.0	713.9	852.3	918.4
75°	173.0	147.8	144.7	176.1	226.4	295.6	368.0	459.2	553.5	641.6	685.6
77.5°	81.8	78.6	88.1	116.4	151.0	210.7	267.3	355.4	430.9	487.5	512.6
80°	53.5	50.3	56.6	78.6	113.2	157.3	213.9	273.6	342.8	390.0	383.7
82.5°	31.5	34.6	34.6	53.5	78.6	113.2	154.1	207.6	254.7	295.6	270.5
85°	18.9	15.7	15.7	31.5	53.5	91.2	128.9	88.1	91.2	91.2	103.8
87.5°	6.3	6.3	6.3	3.1	6.3	6.3	9.4	15.7	18.9	22.0	28.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9630.1	9630.1	9630.1	9630.1	9630.1	9630.1	9630.1	9630.1	9630.1	9630.1	9630.1
2.5°	8306.1	8403.6	8369.0	8246.3	8340.7	8356.4	8293.5	8510.5	8551.4	8485.4	8504.2
5°	6733.6	6758.7	6815.3	6934.8	7019.8	7120.4	7120.4	7126.7	7041.8	7255.6	7192.7
7.5°	5245.9	5261.7	5327.7	5582.5	5654.8	5846.7	5928.4	5871.8	5702.0	5629.6	5689.4
10°	4528.9	4437.7	4415.7	4447.1	4610.6	4692.4	4761.6	4742.7	4714.4	4657.8	4594.9
12.5°	4050.8	3984.8	3931.3	3855.8	3865.3	3943.9	3997.4	3953.3	3965.9	3978.5	3997.4
15°	3531.9	3484.7	3456.4	3343.2	3330.6	3384.1	3402.9	3428.1	3475.3	3478.4	3456.4
17.5°	2981.5	2940.6	3003.5	3066.4	3022.4	3025.5	3060.1	3082.2	3069.6	3013.0	2984.7
20°	2604.1	2648.1	2711.0	2770.8	2818.0	2846.3	2858.9	2824.3	2783.4	2667.0	2663.9
22.5°	2494.0	2550.6	2604.1	2695.3	2739.3	2811.7	2745.6	2667.0	2610.4	2553.8	2487.7
25°	2412.3	2459.4	2566.4	2601.0	2685.9	2745.6	2698.5	2619.8	2522.3	2440.6	2390.2
27.5°	2352.5	2406.0	2475.2	2569.5	2635.6	2670.1	2623.0	2591.5	2490.9	2393.4	2321.0
30°	2314.8	2371.4	2497.2	2575.8	2632.4	2660.7	2578.9	2541.2	2468.9	2387.1	2324.2
32.5°	2289.6	2339.9	2446.9	2547.5	2585.2	2585.2	2597.8	2553.8	2453.1	2314.8	2261.3
35°	2207.8	2277.0	2365.1	2481.4	2550.6	2591.5	2528.6	2478.3	2412.3	2270.7	2173.2
37.5°	2160.7	2207.8	2321.0	2431.1	2490.9	2534.9	2509.8	2421.7	2333.6	2217.3	2138.6
40°	2110.3	2185.8	2286.5	2390.2	2456.3	2500.3	2481.4	2377.7	2270.7	2160.7	2107.2
42.5°	2075.7	2126.1	2229.8	2346.2	2424.8	2509.8	2453.1	2324.2	2248.7	2097.7	2038.0
45°	2047.4	2129.2	2239.3	2286.5	2368.2	2456.3	2355.6	2277.0	2189.0	2078.9	2028.6
47.5°	2012.8	2088.3	2160.7	2286.5	2324.2	2365.1	2346.2	2220.4	2144.9	2025.4	1990.8
50°	2000.3	2028.6	2160.7	2229.8	2283.3	2324.2	2273.9	2179.5	2107.2	1984.5	1909.0
52.5°	1949.9	2003.4	2088.3	2179.5	2245.6	2295.9	2214.1	2154.4	2056.9	1927.9	1880.7
55°	1887.0	1918.5	2069.4	2163.8	2198.4	2233.0	2201.5	2104.0	2003.4	1871.3	1824.1
57.5°	1805.3	1877.6	2000.3	2132.3	2176.4	2195.2	2144.9	2066.3	1940.5	1824.1	1748.6
60°	1720.3	1795.8	1931.1	2038.0	2082.0	2151.2	2075.7	2028.6	1883.9	1754.9	1673.2
62.5°	1635.4	1720.3	1821.0	1956.2	1994.0	2022.3	2003.4	1937.4	1821.0	1676.3	1575.7
65°	1534.8	1597.7	1723.5	1792.7	1817.8	1883.9	1817.8	1792.7	1688.9	1550.5	1465.6
67.5°	1383.8	1437.3	1547.4	1613.4	1632.3	1660.6	1657.4	1629.1	1512.8	1418.4	1342.9
70°	1210.8	1258.0	1327.2	1405.8	1415.3	1449.9	1418.4	1412.1	1336.6	1207.7	1166.8
72.5°	971.8	1015.9	1107.1	1141.7	1144.8	1157.4	1141.7	1119.6	1100.8	965.5	924.6
75°	745.4	770.5	814.6	846.0	846.0	861.7	852.3	830.3	780.0	695.1	654.2
77.5°	518.9	544.1	600.7	619.6	616.4	622.7	594.4	572.4	496.9	452.9	418.3
80°	377.4	393.1	421.4	434.0	437.2	446.6	412.0	393.1	349.1	298.8	283.1
82.5°	273.6	283.1	286.2	301.9	301.9	286.2	276.8	257.9	226.4	195.0	182.4
85°	113.2	116.4	119.5	138.4	141.5	169.8	157.3	147.8	128.9	110.1	100.6
87.5°	28.3	31.5	40.9	34.6	40.9	40.9	44.0	50.3	50.3	40.9	40.9
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9630.1	9630.1	9630.1	9630.1	9630.1	9630.1	9630.1	9630.1	9630.1	9630.1	9630.1
2.5°	8576.6	8601.7	8922.5	8963.4	9120.7	9281.0	9605.0	9837.7	10026.4	10149.1	10183.7
5°	7258.8	7419.2	7567.0	7806.0	8023.0	8331.2	8686.6	9126.9	9680.5	9963.5	10076.7
7.5°	5683.1	5871.8	6085.7	6318.4	6636.1	7189.6	7664.5	8174.0	8881.6	9174.1	9617.6
10°	4639.0	4849.7	5132.7	5312.0	5695.7	6224.1	6777.6	7365.7	8041.9	8463.3	8976.0
12.5°	4101.1	4274.1	4535.2	4912.6	5198.8	5541.6	5953.6	6695.8	7664.5	8063.9	8416.2
15°	3506.7	3698.6	4000.5	4418.8	4761.6	5170.5	5632.8	6441.1	7472.6	8089.1	8387.9
17.5°	3016.1	3154.5	3472.1	3833.8	4227.0	4673.5	5337.2	6428.5	7673.9	8463.3	8950.8
20°	2676.4	2695.3	2868.3	3176.5	3711.2	4293.0	5154.7	6365.6	8318.7	9108.1	9724.5
22.5°	2462.6	2443.7	2446.9	2707.9	3082.2	3918.7	4868.5	6579.4	9051.5	10133.4	10548.5
25°	2355.6	2305.3	2273.9	2330.5	2670.1	3475.3	4651.5	6862.5	9840.9	10979.4	11488.9
27.5°	2299.0	2211.0	2148.1	2157.5	2406.0	3252.0	4516.3	6985.2	10624.0	12158.8	12338.0
30°	2277.0	2166.9	2075.7	2044.3	2207.8	2940.6	4227.0	7195.9	11325.3	12806.7	12960.8
32.5°	2198.4	2063.2	1975.1	1946.8	2012.8	2667.0	4019.4	7346.8	11944.9	13511.1	13457.7
35°	2107.2	1994.0	1883.9	1830.4	1877.6	2490.9	3852.7	7274.5	12674.6	14058.4	14030.1
37.5°	2097.7	1949.9	1858.7	1770.7	1767.5	2273.9	3626.2	7343.7	13140.0	15039.6	14652.8
40°	2016.0	1921.6	1802.1	1729.8	1688.9	2163.8	3406.1	7180.2	13822.5	15435.9	15055.4
42.5°	2019.1	1877.6	1773.8	1688.9	1648.0	2003.4	3255.1	7136.1	14061.5	16080.7	15244.1
45°	1968.8	1830.4	1742.4	1641.7	1619.7	1880.7	3110.5	6931.7	14483.0	16112.1	15008.2
47.5°	1918.5	1795.8	1701.5	1582.0	1531.6	1836.7	2997.2	6761.9	14262.8	15816.5	14681.1
50°	1883.9	1742.4	1654.3	1569.4	1427.9	1761.2	2849.4	6721.0	13954.6	15417.0	14074.1
52.5°	1824.1	1698.3	1607.1	1541.1	1314.6	1692.0	2792.8	6960.0	14332.0	15118.3	13898.0
55°	1767.5	1638.6	1522.2	1393.3	1220.3	1509.6	2635.6	7183.3	14882.4	15807.0	14696.8
57.5°	1707.8	1585.1	1459.3	1305.2	1129.1	1320.9	2472.0	7224.2	13850.8	14608.8	13951.5
60°	1629.1	1471.9	1377.5	1176.2	1031.6	1094.5	1959.4	6368.7	10743.5	12199.7	12221.7
62.5°	1541.1	1371.2	1289.5	1053.6	930.9	943.5	1597.7	5352.9	8714.9	10098.8	10699.5
65°	1424.7	1261.2	1163.7	975.0	858.6	817.7	1170.0	3921.9	6620.3	8192.9	8875.3
67.5°	1273.7	1119.6	997.0	849.2	767.4	701.3	798.8	2207.8	3909.3	5500.7	5708.3
70°	1113.3	981.3	852.3	729.7	638.4	591.3	585.0	978.1	1868.2	2959.5	3368.4
72.5°	877.5	783.1	679.3	588.1	528.4	459.2	418.3	405.7	632.2	1204.6	1663.7
75°	629.0	550.4	490.6	430.9	386.8	349.1	317.7	289.3	264.2	301.9	415.1
77.5°	396.3	368.0	320.8	305.1	279.9	270.5	257.9	242.2	223.3	210.7	210.7
80°	267.3	248.5	232.7	229.6	220.2	217.0	220.2	204.4	185.6	169.8	176.1
82.5°	179.3	176.1	173.0	169.8	173.0	176.1	182.4	179.3	163.5	154.1	157.3
85°	106.9	113.2	119.5	125.8	138.4	122.7	100.6	84.9	75.5	69.2	66.0
87.5°	40.9	56.6	50.3	47.2	50.3	47.2	44.0	40.9	34.6	31.5	31.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9630.1	9630.1	9630.1	9630.1	9630.1	9630.1	9630.1	9630.1	9630.1	9630.1
2.5°	10413.3	10476.2	10529.6	10517.1	10407.0	10259.2	10199.4	9894.3	9831.4	9790.5
5°	10554.8	10919.6	10998.2	10951.1	10664.9	10303.2	9950.9	9504.3	9243.3	9233.9
7.5°	10293.8	10743.5	10885.0	10992.0	10611.4	9982.4	9378.5	8708.6	8545.1	8557.7
10°	9630.1	10347.2	10696.3	10806.4	10369.2	9825.1	8988.6	8309.2	7960.1	7953.8
12.5°	9262.2	9825.1	9922.6	10076.7	9947.8	9397.4	8762.1	8001.0	7661.3	7655.1
15°	8935.1	9306.2	9334.5	9551.5	9620.7	9249.6	8821.9	8010.4	7736.8	7708.5
17.5°	9221.3	8963.4	8856.5	8884.8	9089.2	9224.4	9167.8	8545.1	8265.2	8107.9
20°	9413.1	8837.6	8513.7	8545.1	8787.3	9281.0	9683.6	9318.8	8875.3	8894.2
22.5°	9925.8	8856.5	8350.1	8315.5	8699.2	9576.7	10265.5	10296.9	9869.2	9765.4
25°	10693.2	9073.5	8299.8	8290.4	8658.3	9894.3	10944.8	11454.3	11017.1	10825.3
27.5°	11309.6	9413.1	8457.0	8488.5	8787.3	10152.2	11523.5	12199.7	11866.3	11630.4
30°	11850.6	9765.4	8677.2	8532.5	9133.2	10287.5	11771.9	13048.8	12781.5	12586.5
32.5°	12073.9	10265.5	9026.3	8787.3	9419.4	10451.0	12287.7	13872.8	13643.2	13162.0
35°	12451.3	10545.4	9215.0	9196.1	9919.5	10844.1	12529.9	14416.9	14322.6	13894.8
37.5°	12753.2	10828.4	9884.9	9677.3	10605.1	11504.6	12919.9	15168.6	14951.6	14750.3
40°	12985.9	11334.8	10510.8	10784.4	11448.0	12105.3	13278.4	15215.8	15841.6	15256.6
42.5°	12772.1	11787.7	11539.2	12193.4	12822.4	12790.9	13319.3	15580.6	16049.2	15744.1
45°	12718.6	12555.0	13165.2	13759.6	13904.3	13360.2	13026.8	15178.0	15986.3	15851.1
47.5°	12589.6	13309.9	14372.9	15341.6	15121.4	13740.7	12677.7	15105.7	16024.0	15781.9
50°	12545.6	13473.4	15266.1	16209.6	16077.5	14071.0	12514.2	14640.2	15756.7	15734.7
52.5°	12542.5	13809.9	15637.2	16681.4	16763.1	14593.0	12737.5	14876.1	15964.3	16149.8
55°	12684.0	13703.0	15590.0	16420.3	16388.9	14360.3	12762.6	15033.3	16219.0	16401.4
57.5°	11963.8	12275.1	12866.4	13523.7	13353.9	11894.6	11397.7	13898.0	14885.5	14753.4
60°	10331.5	9356.5	8689.8	8658.3	8328.1	7872.1	9328.2	12404.1	12404.1	12275.1
62.5°	9048.3	6142.3	5277.4	5032.1	5268.0	5793.2	8998.0	12064.4	11721.6	11573.8
65°	7913.0	4689.3	3814.9	3745.8	4154.6	4947.2	8136.2	10278.0	9674.2	9183.6
67.5°	5091.8	3434.4	2836.8	2714.2	3208.0	3632.5	5415.8	6321.6	5941.0	5749.2
70°	3283.4	2236.1	1578.8	1481.3	1673.2	2239.3	3459.6	3686.0	3132.5	3003.5
72.5°	1553.7	965.5	553.5	456.0	512.6	855.5	1368.1	1471.9	1223.4	1119.6
75°	493.8	355.4	226.4	195.0	185.6	220.2	314.5	242.2	176.1	173.0
77.5°	220.2	210.7	179.3	151.0	132.1	110.1	91.2	75.5	78.6	81.8
80°	182.4	166.7	147.8	132.1	110.1	84.9	66.0	50.3	50.3	53.5
82.5°	160.4	144.7	128.9	110.1	94.4	69.2	50.3	34.6	31.5	31.5
85°	69.2	81.8	88.1	94.4	75.5	56.6	34.6	22.0	18.9	18.9
87.5°	28.3	25.2	22.0	18.9	15.7	15.7	12.6	9.4	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)