

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P635846

Luminaire Tested: GWS-SA3E-750-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-750-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21299.7 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

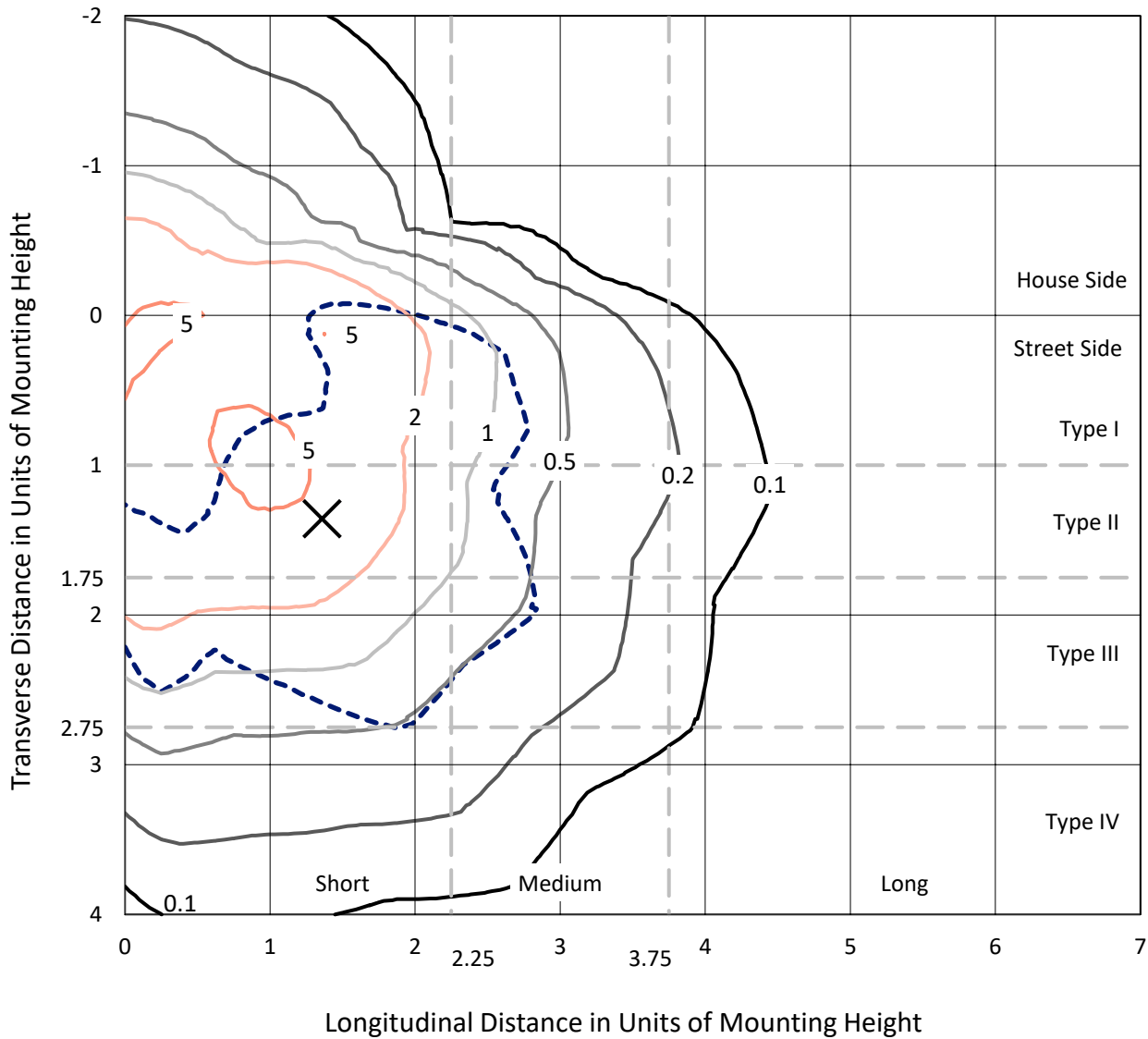
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

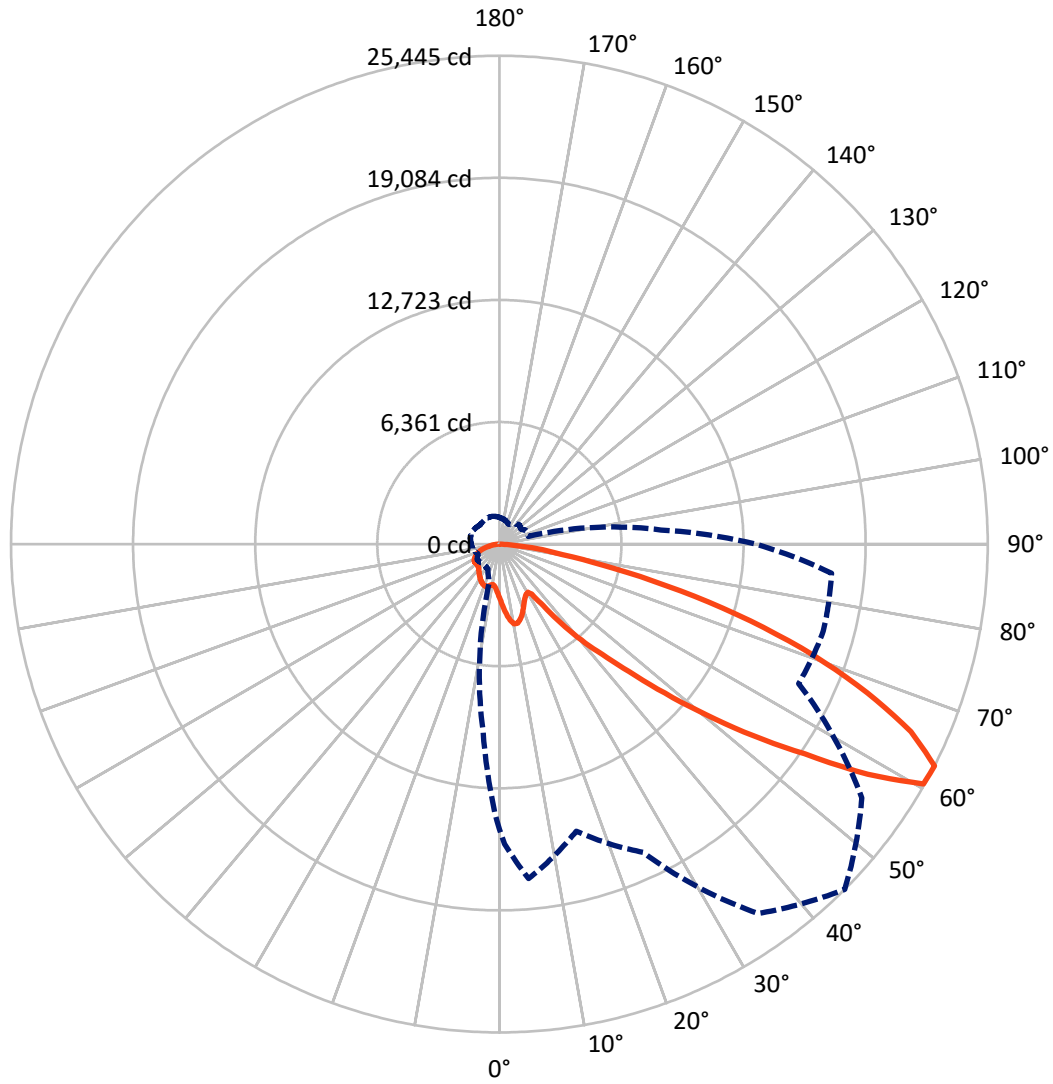
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5082.5	0.0	5082.5
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	16217.2	0.0	16217.2
	% Fixture	76.1	0.0	76.1
Total	Lumens	21299.7	0.0	21299.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.1	1.3
10°-20°	865.5	4.1
20°-30°	1344.3	6.3
30°-40°	1825.2	8.6
40°-50°	2892.7	13.6
50°-60°	5102.8	24.0
60°-70°	5677.6	26.7
70°-80°	2879.5	13.5
80°-90°	436.0	2.0
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°	21299.7	100.0
0°-180°	21299.7	100.0

Coefficient of Utilization



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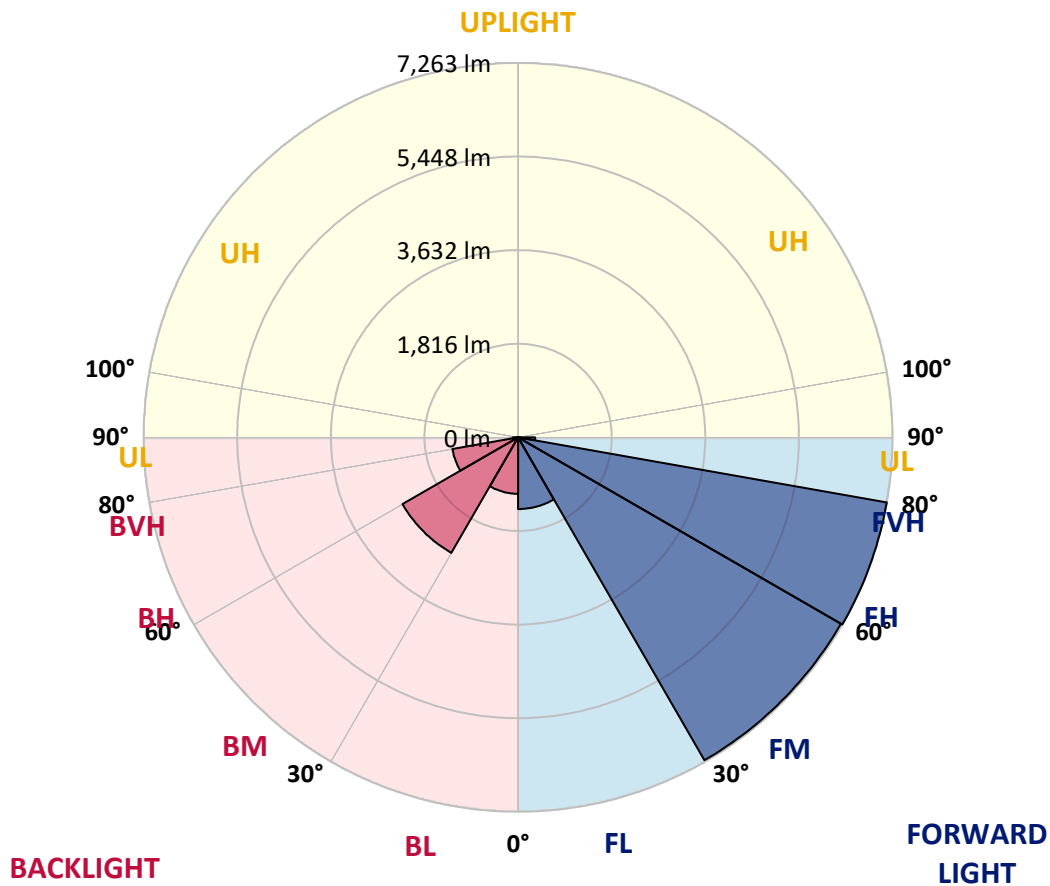
CATALOG NUMBER: GWS-SA3E-750-U-SLR-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1390.7	6.5			
FM (30°-60°)	7232.2	34.0			
FH (60°-80°)	7263.4	34.1			G3/7500
FVH (80°-90°)	330.9	1.6			G3/500
BL (0°-30°)	1095.2	5.1	B3/2500		
BM (30°-60°)	2588.5	12.2	B3/5000		
BH (60°-80°)	1293.7	6.1	B3/2500		G3/2500
BVH (80°-90°)	105.1	0.5			G2/225
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°	2826.9	2826.9	2826.9	2826.9	2826.9	2826.9	2826.9	2826.9	2826.9	2826.9	2826.9
2.5°	3038.2	3036.5	3067.2	3113.9	3157.5	3176.8	3209.1	3205.9	3180.1	3146.2	3134.9
5°	3276.8	3283.3	3336.5	3439.7	3554.2	3602.6	3623.5	3615.5	3568.7	3509.0	3404.2
7.5°	3492.9	3504.2	3586.4	3741.3	3883.2	3947.7	3999.3	3989.6	3921.9	3810.6	3655.8
10°	3650.9	3663.8	3762.2	3944.4	4102.5	4158.9	4225.0	4228.3	4168.6	4018.6	3860.6
12.5°	3809.0	3821.9	3913.8	4079.9	4183.1	4184.7	4223.4	4244.4	4247.6	4178.3	4020.2
15°	3973.5	3984.8	4068.6	4162.1	4157.3	4067.0	4067.0	4107.3	4196.0	4246.0	4136.3
17.5°	4113.8	4128.3	4192.8	4162.1	4018.6	3855.8	3836.4	3888.0	4042.8	4234.7	4223.4
20°	4229.9	4241.2	4276.6	4073.5	3812.2	3599.3	3562.3	3621.9	3831.6	4165.4	4289.5
22.5°	4341.1	4347.6	4328.2	3957.3	3589.7	3346.2	3301.0	3363.9	3589.7	4042.8	4346.0
25°	4473.4	4466.9	4375.0	3836.4	3386.5	3146.2	3099.4	3170.4	3405.8	3879.9	4407.3
27.5°	4626.6	4602.4	4415.3	3705.8	3230.1	2997.8	2965.6	3041.4	3260.7	3730.0	4455.6
30°	4757.2	4710.4	4421.8	3589.7	3149.4	2935.0	2915.6	2986.6	3189.7	3628.4	4516.9
32.5°	4902.3	4837.8	4458.9	3559.0	3194.6	3086.5	3112.3	3117.2	3209.1	3599.3	4608.8
35°	5110.4	5026.5	4560.5	3647.7	3659.0	3841.2	3934.8	3809.0	3501.0	3663.8	4783.0
37.5°	5424.8	5318.4	4766.9	4031.5	4618.5	5026.5	5252.3	4965.2	4387.9	3907.4	5045.9
40°	5807.0	5671.5	5031.3	4741.1	5515.1	6168.2	6569.8	6148.9	5300.6	4515.3	5415.1
42.5°	6340.8	6198.9	5544.2	5437.7	6345.6	7318.0	7842.1	7214.8	6105.3	5300.6	6007.0
45°	7271.3	7134.2	6484.3	6136.0	7318.0	8733.9	9469.2	8596.8	6922.9	6089.2	7113.2
47.5°	8990.3	8829.0	7880.8	6910.0	8427.5	10572.3	11601.1	10330.4	7772.8	6992.3	8970.9
50°	11054.4	10899.6	9633.7	7826.0	9653.1	12538.0	13968.4	12367.1	8751.6	8090.5	11191.5
52.5°	13537.9	13508.8	12134.9	8983.8	10928.7	14634.4	16595.4	14623.1	9824.0	9569.2	13707.2
55°	15776.2	16060.0	15311.7	10749.7	12576.7	17267.8	19296.5	17084.0	11278.6	12013.9	16653.4
57.5°	16982.4	17745.2	18895.0	14352.2	14973.1	20415.6	22629.8	20088.3	13778.1	16084.2	19385.2
60°	16185.8	17050.1	19133.6	17064.6	17350.1	22937.8	25380.9	22613.6	16232.5	18909.5	19230.4
62.5°	14860.2	15635.9	17488.8	15481.1	17717.7	23492.5	25445.4	23053.9	17208.2	17475.9	17371.0
65°	13287.9	14070.0	16032.6	13513.7	16548.6	22175.0	23568.3	21758.9	15455.3	15789.1	15827.8
67.5°	11199.6	11922.0	13920.0	12015.6	15084.4	20241.5	20686.6	19914.1	14232.9	14765.1	14208.7
70°	8367.8	9019.3	10783.5	9764.4	12715.4	17722.6	17363.0	17477.5	12860.6	13389.5	11868.8
72.5°	5718.3	6208.5	7721.2	7672.8	9736.9	14187.7	13686.2	14771.5	10741.6	11443.1	9048.4
75°	3999.3	4381.5	5581.2	6061.8	7360.0	10515.8	9746.6	11056.1	8388.8	9390.2	6602.0
77.5°	2454.4	2707.6	3525.2	4491.1	4734.6	7197.1	6053.7	8319.5	5890.9	6848.8	4404.0
80°	1227.2	1349.8	1712.6	2823.7	3139.8	4241.2	3342.9	4829.8	3986.4	4241.2	2436.7
82.5°	370.9	409.6	501.5	1072.4	1627.1	2441.5	1975.4	2805.9	2177.0	1988.3	959.5
85°	98.4	111.3	138.7	317.7	570.9	875.6	667.6	1359.4	1043.4	733.7	361.2
87.5°	8.1	8.1	6.5	6.5	3.2	0.0	0.0	96.8	195.1	111.3	62.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2826.9	2826.9	2826.9	2826.9	2826.9	2826.9	2826.9	2826.9	2826.9	2826.9	2826.9
2.5°	3078.5	3072.0	3005.9	2957.5	2901.1	2846.3	2789.8	2739.8	2683.4	2626.9	2610.8
5°	3326.8	3281.7	3141.4	3023.6	2907.5	2805.9	2717.2	2625.3	2551.1	2478.6	2451.2
7.5°	3546.1	3467.1	3263.9	3084.9	2923.7	2797.9	2667.3	2533.4	2428.6	2325.4	2299.6
10°	3744.5	3639.7	3383.3	3157.5	2978.5	2835.0	2681.8	2502.8	2351.2	2225.4	2191.5
12.5°	3891.2	3776.7	3486.5	3226.8	3023.6	2862.4	2710.8	2552.8	2393.1	2230.2	2193.1
15°	4007.3	3888.0	3571.9	3280.0	3025.3	2817.2	2670.5	2615.7	2565.7	2406.0	2338.3
17.5°	4100.9	3975.1	3646.1	3312.3	2981.7	2680.2	2552.8	2633.4	2760.8	2660.8	2533.4
20°	4186.3	4058.9	3702.6	3334.9	2885.0	2491.5	2420.5	2591.5	2783.4	2780.1	2665.6
22.5°	4279.9	4155.7	3784.8	3347.8	2749.5	2299.6	2341.5	2530.2	2686.6	2733.4	2662.4
25°	4399.2	4289.5	3899.3	3376.8	2596.3	2167.3	2283.5	2451.2	2581.8	2593.1	2551.1
27.5°	4537.9	4455.6	4070.2	3444.5	2447.9	2099.6	2215.7	2339.9	2459.2	2464.1	2414.1
30°	4689.5	4634.6	4228.3	3501.0	2336.7	2078.7	2128.6	2228.6	2304.4	2317.3	2273.8
32.5°	4883.0	4834.6	4368.6	3463.9	2270.6	2073.8	2048.0	2099.6	2162.5	2162.5	2128.6
35°	5149.1	5081.3	4516.9	3322.0	2189.9	2054.5	1962.5	1977.1	2004.5	2009.3	1990.0
37.5°	5526.4	5415.1	4666.9	3041.4	2057.7	1985.1	1864.2	1846.4	1856.1	1869.0	1864.2
40°	5994.1	5811.8	4886.2	2704.3	1899.7	1851.3	1762.6	1728.7	1720.7	1746.5	1756.1
42.5°	6582.7	6303.7	5121.6	2389.9	1756.1	1698.1	1643.2	1614.2	1601.3	1644.9	1670.7
45°	7522.8	7063.2	5347.4	2078.7	1675.5	1567.5	1530.4	1509.4	1515.9	1567.5	1599.7
47.5°	9146.7	8222.7	5561.9	1881.9	1669.1	1473.9	1428.8	1433.6	1451.3	1506.2	1544.9
50°	11201.2	9775.6	5705.4	1799.7	1688.4	1417.5	1357.8	1383.6	1411.0	1464.2	1509.4
52.5°	13292.7	11222.2	5534.5	1754.5	1686.8	1419.1	1291.7	1369.1	1382.0	1435.2	1483.6
55°	14731.2	11383.4	4781.4	1685.2	1661.0	1483.6	1240.1	1362.7	1370.7	1419.1	1462.6
57.5°	15279.5	10831.9	3646.1	1704.5	1583.6	1533.6	1217.5	1317.5	1375.6	1417.5	1462.6
60°	14616.7	9791.8	2215.7	1754.5	1459.4	1530.4	1232.0	1235.3	1335.2	1406.2	1451.3
62.5°	13366.9	8456.5	1556.2	1612.6	1369.1	1444.9	1265.9	1138.5	1264.3	1349.8	1390.1
65°	11934.9	6885.8	1186.9	1388.5	1325.6	1312.7	1277.2	1053.0	1167.5	1251.4	1286.9
67.5°	10443.3	5352.3	964.3	1035.3	1198.2	1186.9	1167.5	977.2	1053.0	1112.7	1153.0
70°	8564.6	3744.5	814.4	777.3	1027.2	1064.3	1020.8	882.1	906.3	967.6	999.8
72.5°	6265.0	2333.4	669.2	641.8	825.7	930.5	907.9	777.3	788.6	846.6	872.4
75°	4505.6	1335.2	537.0	528.9	630.5	796.6	751.5	669.2	682.1	725.7	743.4
77.5°	2864.0	743.4	414.4	425.7	451.5	595.1	641.8	572.5	572.5	598.3	612.8
80°	1533.6	425.7	303.2	308.0	316.1	454.8	506.4	443.5	443.5	425.7	443.5
82.5°	625.7	245.1	208.0	193.5	211.3	311.2	354.8	282.2	295.1	266.1	272.5
85°	206.4	122.6	103.2	101.6	100.0	137.1	170.9	140.3	167.7	106.4	111.3
87.5°	27.4	22.6	12.9	9.7	11.3	4.8	9.7	11.3	11.3	8.1	8.1
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°	2826.9	2826.9	2826.9	2826.9	2826.9	2826.9	2826.9	2826.9	2826.9	2826.9	2826.9
2.5°	2599.5	2586.6	2539.9	2551.1	2543.1	2530.2	2543.1	2518.9	2538.2	2544.7	2585.0
5°	2430.2	2399.6	2354.4	2331.8	2327.0	2314.1	2315.7	2304.4	2307.6	2335.1	2380.2
7.5°	2278.6	2249.6	2214.1	2198.0	2183.5	2169.0	2167.3	2165.7	2178.6	2202.8	2246.4
10°	2169.0	2152.8	2138.3	2144.8	2138.3	2131.9	2120.6	2120.6	2141.5	2185.1	2238.3
12.5°	2169.0	2165.7	2169.0	2188.3	2186.7	2188.3	2173.8	2181.9	2239.9	2314.1	2389.9
15°	2285.1	2259.3	2259.3	2268.9	2265.7	2265.7	2265.7	2299.6	2431.8	2546.3	2626.9
17.5°	2427.0	2351.2	2318.9	2314.1	2312.5	2312.5	2318.9	2391.5	2597.9	2718.9	2765.6
20°	2525.3	2381.8	2328.6	2307.6	2309.3	2312.5	2331.8	2431.8	2659.2	2720.5	2709.2
22.5°	2543.1	2357.6	2293.1	2262.5	2267.3	2270.6	2299.6	2406.0	2575.3	2585.0	2562.4
25°	2460.8	2289.9	2220.6	2196.4	2202.8	2201.2	2227.0	2304.4	2425.4	2422.1	2409.2
27.5°	2338.3	2181.9	2130.3	2114.1	2125.4	2112.5	2120.6	2180.2	2273.8	2270.6	2265.7
30°	2212.5	2077.0	2030.3	2022.2	2036.7	2017.4	2019.0	2069.0	2133.5	2130.3	2128.6
32.5°	2086.7	1972.2	1930.3	1930.3	1944.8	1923.8	1927.1	1970.6	2014.1	2001.2	2001.2
35°	1967.4	1886.8	1852.9	1846.4	1857.7	1843.2	1849.7	1890.0	1906.1	1888.4	1877.1
37.5°	1862.6	1827.1	1793.2	1770.6	1772.3	1773.9	1793.2	1823.9	1814.2	1788.4	1773.9
40°	1765.8	1765.8	1733.6	1691.6	1686.8	1698.1	1730.3	1764.2	1736.8	1707.8	1690.0
42.5°	1696.5	1711.0	1680.3	1638.4	1628.7	1648.1	1683.6	1707.8	1675.5	1643.2	1619.1
45°	1632.0	1667.4	1646.5	1599.7	1586.8	1609.4	1654.5	1664.2	1620.7	1590.0	1572.3
47.5°	1586.8	1635.2	1620.7	1575.5	1556.2	1588.4	1635.2	1633.6	1578.7	1546.5	1532.0
50°	1554.6	1615.8	1614.2	1575.5	1554.6	1594.9	1636.8	1615.8	1556.2	1522.3	1507.8
52.5°	1528.8	1614.2	1625.5	1602.9	1588.4	1623.9	1649.7	1609.4	1540.0	1504.6	1493.3
55°	1517.5	1620.7	1628.7	1607.8	1594.9	1627.1	1649.7	1622.3	1540.0	1507.8	1498.1
57.5°	1520.7	1612.6	1614.2	1585.2	1562.6	1602.9	1638.4	1630.3	1557.8	1520.7	1509.4
60°	1501.3	1569.1	1572.3	1527.1	1501.3	1549.7	1612.6	1607.8	1549.7	1511.0	1490.1
62.5°	1436.8	1496.5	1498.1	1456.2	1419.1	1488.4	1557.8	1556.2	1503.0	1464.2	1440.1
65°	1328.8	1391.7	1407.8	1367.5	1338.5	1412.6	1485.2	1482.0	1428.8	1393.3	1369.1
67.5°	1194.9	1262.7	1293.3	1265.9	1254.6	1322.3	1390.1	1388.5	1344.9	1311.1	1290.1
70°	1032.1	1088.5	1140.1	1140.1	1132.1	1209.5	1282.0	1275.6	1235.3	1209.5	1193.3
72.5°	896.6	940.2	956.3	972.4	996.6	1077.2	1138.5	1143.3	1114.3	1101.4	1114.3
75°	762.8	790.2	804.7	791.8	833.7	917.6	998.2	1006.3	975.6	954.7	959.5
77.5°	627.3	657.9	672.5	643.4	640.2	746.6	845.0	862.7	836.9	804.7	814.4
80°	453.1	493.5	517.6	498.3	491.8	538.6	674.1	693.4	669.2	643.4	657.9
82.5°	277.4	299.9	306.4	325.7	366.1	385.4	433.8	498.3	480.6	458.0	498.3
85°	109.7	130.6	145.1	164.5	191.9	227.4	267.7	319.3	290.3	280.6	330.6
87.5°	6.5	1.6	0.0	3.2	27.4	53.2	114.5	158.0	132.2	141.9	170.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2826.9	2826.9	2826.9	2826.9	2826.9	2826.9	2826.9	2826.9	2826.9	2826.9
2.5°	2617.3	2659.2	2715.6	2762.4	2822.1	2878.5	2936.6	2994.6	3025.3	3038.2
5°	2431.8	2509.2	2599.5	2699.5	2815.6	2938.2	3062.3	3189.7	3270.4	3276.8
7.5°	2320.5	2431.8	2556.0	2681.8	2825.3	2994.6	3191.4	3388.1	3470.3	3492.9
10°	2356.0	2480.2	2578.6	2696.3	2854.3	3065.6	3297.8	3528.4	3623.5	3650.9
12.5°	2497.9	2522.1	2552.8	2660.8	2854.3	3126.9	3407.4	3681.6	3783.2	3809.0
15°	2615.7	2499.5	2444.7	2559.2	2815.6	3180.1	3523.6	3826.7	3949.3	3973.5
17.5°	2625.3	2425.4	2306.0	2409.2	2747.9	3217.2	3634.8	3988.0	4091.2	4113.8
20°	2527.0	2346.3	2191.5	2254.4	2656.0	3233.3	3715.5	4105.7	4207.3	4229.9
22.5°	2415.7	2281.8	2114.1	2110.9	2544.7	3251.0	3812.2	4217.0	4326.6	4341.1
25°	2310.9	2193.1	2051.2	2006.1	2415.7	3284.9	3942.8	4384.7	4468.5	4473.4
27.5°	2188.3	2098.0	2001.2	1957.7	2302.8	3349.4	4136.3	4584.6	4634.6	4626.6
30°	2077.0	2009.3	1965.8	1952.9	2231.9	3397.8	4320.2	4781.4	4784.6	4757.2
32.5°	1959.3	1933.5	1933.5	1975.4	2173.8	3386.5	4470.2	4973.3	4942.6	4902.3
35°	1854.5	1859.3	1893.2	1991.6	2077.0	3273.6	4613.7	5213.6	5168.4	5110.4
37.5°	1754.5	1791.6	1840.0	1935.1	1949.6	3105.9	4781.4	5553.8	5497.4	5424.8
40°	1669.1	1725.5	1781.9	1828.7	1814.2	2867.2	5015.2	5953.8	5890.9	5807.0
42.5°	1601.3	1656.2	1719.0	1723.9	1728.7	2618.9	5263.6	6444.0	6432.7	6340.8
45°	1557.8	1593.3	1652.9	1644.9	1723.9	2344.7	5492.5	7192.2	7340.6	7271.3
47.5°	1528.8	1556.2	1562.6	1596.5	1765.8	2099.6	5787.7	8656.5	9069.3	8990.3
50°	1512.6	1540.0	1467.5	1599.7	1772.3	1941.6	6195.6	10494.9	11159.3	11054.4
52.5°	1511.0	1504.6	1394.9	1633.6	1736.8	1844.8	6408.5	11836.6	13310.5	13537.9
55°	1514.2	1433.6	1357.8	1643.2	1665.8	1809.3	5695.7	12481.6	15295.6	15776.2
57.5°	1485.2	1356.2	1378.8	1604.5	1532.0	1904.5	4210.5	12251.0	16089.0	16982.4
60°	1430.4	1282.0	1417.5	1499.7	1394.9	1741.6	2899.5	11222.2	15266.6	16185.8
62.5°	1351.4	1230.4	1412.6	1364.3	1344.9	1425.5	1993.2	9782.1	13962.0	14860.2
65°	1262.7	1188.5	1336.9	1233.6	1244.9	1096.6	1409.4	8156.6	12404.2	13287.9
67.5°	1167.5	1162.7	1225.6	1098.2	1051.4	869.2	1027.2	6537.5	10402.9	11199.6
70°	1059.5	1095.0	1114.3	975.6	853.1	682.1	762.8	4571.7	7674.4	8367.8
72.5°	951.4	954.7	982.1	848.2	638.6	546.7	572.5	2768.9	5213.6	5718.3
75°	841.8	811.1	836.9	690.2	475.7	448.3	441.9	1711.0	3601.0	3999.3
77.5°	724.1	690.2	656.3	519.3	382.2	346.7	338.6	959.5	2209.3	2454.4
80°	588.6	543.4	490.2	380.6	279.0	248.3	246.7	467.7	1101.4	1227.2
82.5°	458.0	372.5	358.0	237.1	172.5	151.6	161.3	179.0	332.2	370.9
85°	320.9	270.9	190.3	95.1	77.4	62.9	61.3	53.2	88.7	98.4
87.5°	179.0	117.7	61.3	11.3	12.9	14.5	11.3	8.1	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)