

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: P640850

Luminaire Tested: GWS-SA5E-760-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-760-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23504.8 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

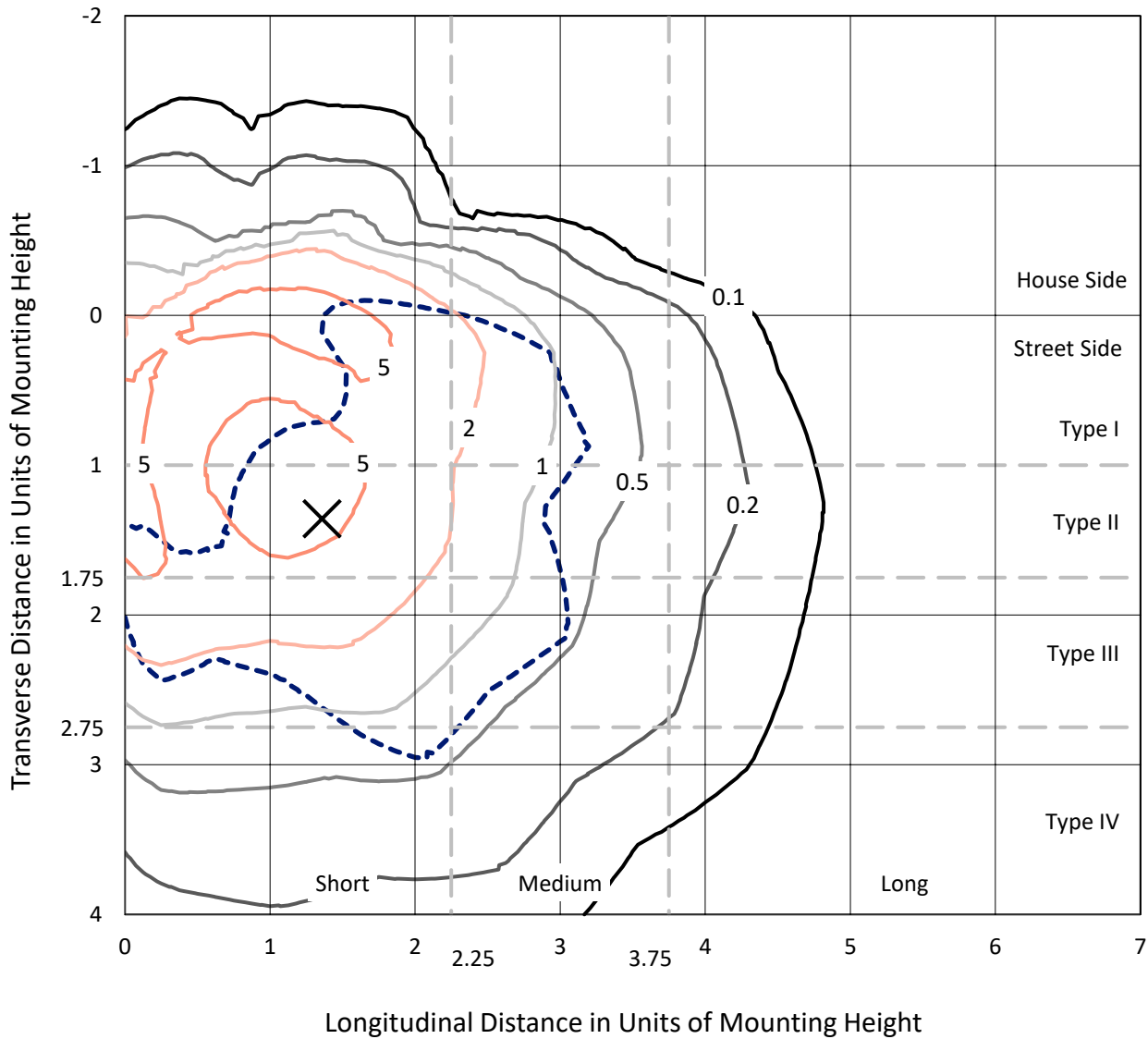
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

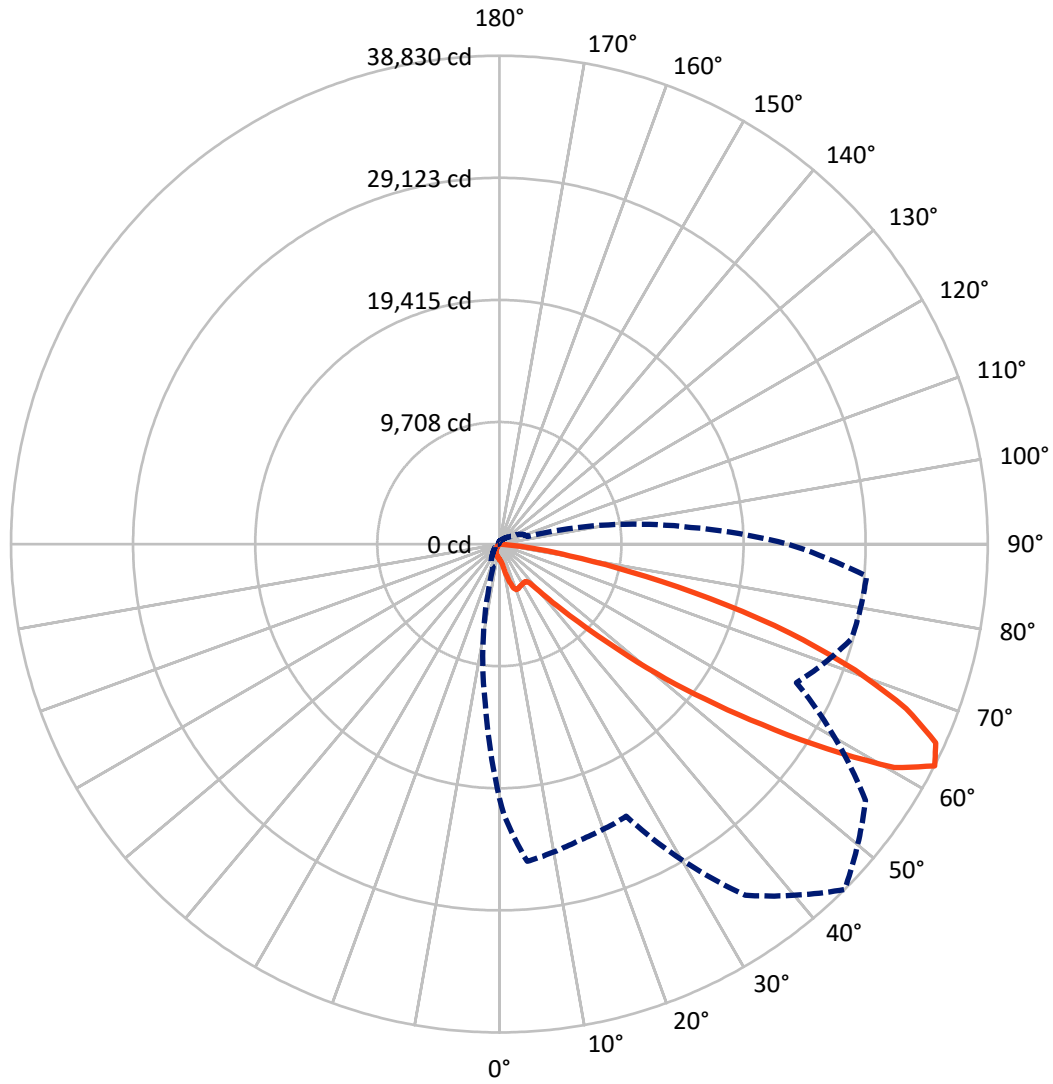
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - 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	2900.5	0.0	2900.5
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	20604.3	0.0	20604.3
	% Fixture	87.7	0.0	87.7
Total	Lumens	23504.8	0.0	23504.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	0.5
10°-20°	409.8	1.7
20°-30°	890.8	3.8
30°-40°	1462.1	6.2
40°-50°	2687.9	11.4
50°-60°	5772.4	24.6
60°-70°	7753.3	33.0
70°-80°	4037.2	17.2
80°-90°	382.8	1.6
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°	23504.8	100.0
0°-180°	23504.8	100.0

Coefficient of Utilization



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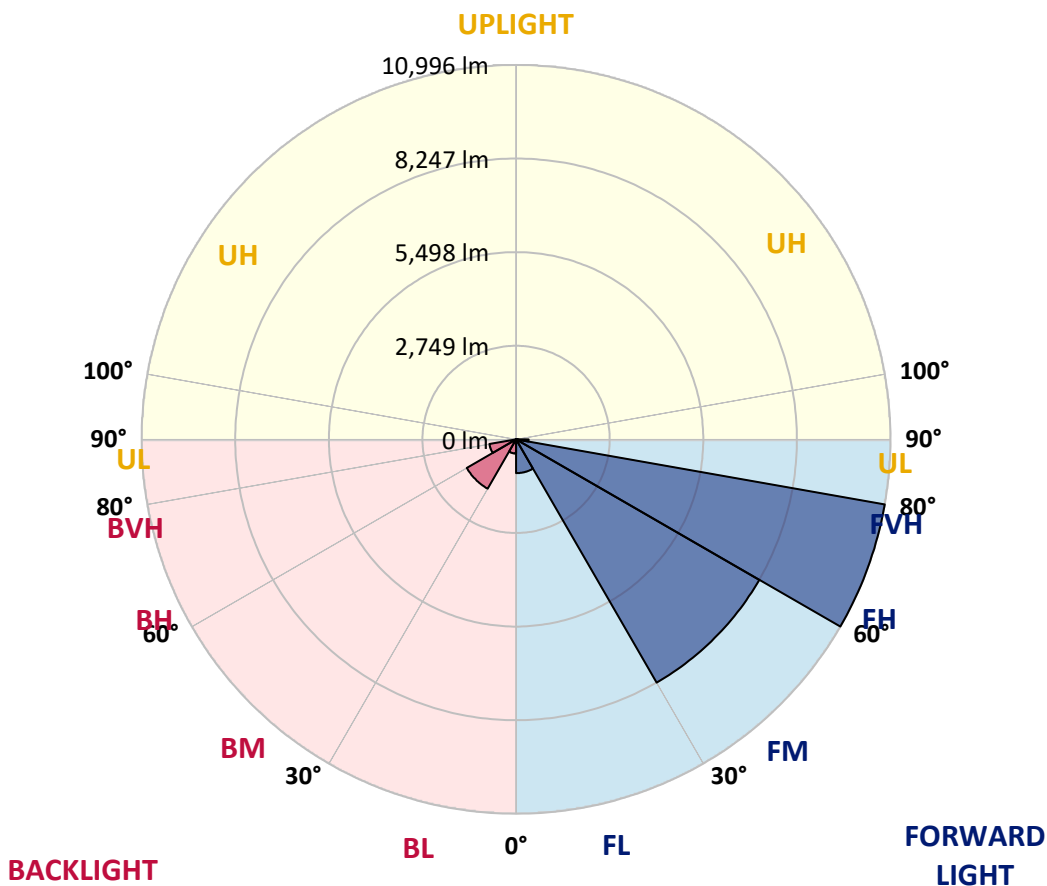
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	993.0	4.2			
FM (30°-60°)	8249.9	35.1			
FH (60°-80°)	10995.7	46.8			G4/12000
FVH (80°-90°)	365.7	1.6			G3/500
BL (0°-30°)	416.0	1.8	B1/500		
BM (30°-60°)	1672.6	7.1	B2/2500		
BH (60°-80°)	794.8	3.4	B2/1000		G2/1000
BVH (80°-90°)	17.1	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°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8
2.5°	1246.2	1251.6	1257.1	1276.1	1289.6	1300.5	1303.2	1295.1	1276.1	1257.1	1229.9
5°	1208.2	1213.6	1232.6	1284.2	1335.8	1376.5	1390.1	1381.9	1335.8	1276.1	1213.6
7.5°	1205.5	1216.3	1262.5	1371.1	1482.4	1566.6	1588.3	1569.3	1482.4	1362.9	1235.3
10°	1303.2	1322.2	1390.1	1585.6	1789.2	1938.5	1998.3	1916.8	1778.3	1561.1	1352.1
12.5°	1558.4	1591.0	1721.3	2006.4	2321.3	2519.5	2601.0	2500.5	2283.3	1968.4	1637.2
15°	1960.2	2009.1	2204.6	2630.9	3002.8	3179.3	3206.4	3149.4	2896.9	2549.4	2104.1
17.5°	2527.7	2598.3	2902.4	3336.8	3605.5	3668.0	3659.8	3600.1	3415.5	3176.6	2755.7
20°	3206.4	3290.6	3589.3	3947.6	3974.8	3901.5	3860.8	3825.5	3763.0	3722.3	3393.8
22.5°	3890.6	3993.8	4306.0	4395.6	4151.3	3939.5	3839.0	3866.2	3958.5	4159.4	4026.4
25°	4572.1	4669.8	4963.1	4721.4	4232.7	3879.8	3752.2	3817.3	4037.2	4471.6	4642.7
27.5°	5367.6	5440.9	5614.7	4944.0	4246.3	3830.9	3706.0	3806.5	4075.2	4667.1	5318.7
30°	6195.7	6239.1	6154.9	5003.8	4200.1	3757.6	3659.8	3806.5	4140.4	4797.4	5826.4
32.5°	6803.8	6812.0	6537.8	5009.2	4175.7	3697.9	3616.4	3790.2	4202.8	4906.0	6317.8
35°	7431.0	7390.3	6904.3	5090.7	4240.9	3719.6	3649.0	3836.3	4300.6	5033.6	6749.5
37.5°	8066.3	7993.0	7314.3	5223.7	4409.2	3955.8	3912.3	4072.5	4458.1	5210.1	7224.7
40°	8717.9	8617.5	7740.5	5424.6	4783.9	4759.4	4908.8	4889.7	4889.7	5435.5	7713.4
42.5°	9513.4	9396.7	8370.4	5992.0	5658.1	6203.8	6611.1	6358.6	5891.6	5954.0	8348.7
45°	10564.1	10463.7	9461.8	7078.0	7029.2	8283.5	8832.0	8332.4	7170.4	7151.4	9410.2
47.5°	12244.7	12225.7	11202.2	8337.8	8707.1	10930.7	11989.5	11028.4	8628.3	8419.3	11419.4
50°	14606.8	14549.8	13371.5	9814.8	10702.6	14210.4	16100.1	14498.2	10390.4	9899.0	14109.9
52.5°	17267.5	17327.2	16409.6	11427.5	12823.0	17859.4	20490.2	18473.0	12304.5	11780.5	17495.6
55°	19773.5	20115.6	19873.9	13314.4	14894.6	21888.5	25312.1	22833.3	14674.7	14243.0	21291.2
57.5°	21733.7	22697.5	24391.7	16056.6	17330.0	26601.7	30696.0	27560.1	17441.3	18242.2	26457.8
60°	21842.3	23118.4	27052.4	21793.4	20463.1	30644.4	36071.7	32178.4	21790.7	25032.5	30505.9
62.5°	20205.2	21573.5	25320.2	24399.9	23875.9	34084.3	38830.2	35545.0	26069.6	29010.0	29305.9
65°	18331.8	19713.7	23387.2	21443.2	23479.5	33937.7	38129.7	35623.7	26457.8	26305.8	27158.3
67.5°	15500.0	16740.8	20066.7	18980.7	21641.4	32300.6	34893.4	33378.4	24375.4	24603.5	24983.6
70°	11313.5	12508.1	15595.1	15649.4	18899.2	29349.3	29981.9	29772.9	22447.8	22689.4	21603.4
72.5°	8172.2	9179.5	11842.9	12833.9	15087.3	24611.6	24174.5	24980.9	19260.3	20207.9	17351.7
75°	5875.3	6630.1	8688.1	11164.1	11959.6	18277.5	17305.5	19347.2	15453.9	17400.5	13045.7
77.5°	2383.8	2649.9	3418.2	7520.6	7860.0	12296.3	10594.0	14052.9	11017.5	11432.9	6323.3
80°	97.7	108.6	141.2	3882.5	5389.3	6917.9	5669.0	7512.5	7276.2	4604.7	1493.3
82.5°	10.9	10.9	24.4	1118.6	2359.3	3817.3	2671.6	4327.7	3684.3	1952.1	678.8
85°	2.7	2.7	5.4	127.6	553.9	610.9	361.1	1327.6	1713.2	798.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	24.4	27.2	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8
2.5°	1229.9	1216.3	1200.0	1183.7	1175.6	1153.9	1145.7	1140.3	1134.9	1137.6	1137.6
5°	1189.2	1159.3	1124.0	1088.7	1069.7	1048.0	1037.1	1031.7	1034.4	1045.3	1045.3
7.5°	1183.7	1126.7	1050.7	1004.6	982.8	966.5	955.7	950.3	953.0	966.5	972.0
10°	1273.3	1172.9	1037.1	958.4	934.0	917.7	906.8	898.7	893.2	904.1	906.8
12.5°	1466.1	1327.6	1102.3	953.0	909.5	887.8	879.7	863.4	855.2	860.7	863.4
15°	1865.2	1626.3	1232.6	974.7	887.8	863.4	849.8	836.2	822.7	819.9	822.7
17.5°	2386.5	2044.4	1430.8	1026.3	871.5	841.7	822.7	803.6	784.6	781.9	779.2
20°	3032.7	2557.5	1707.7	1107.7	857.9	822.7	795.5	768.3	743.9	735.8	735.8
22.5°	3621.8	3176.6	2063.4	1208.2	838.9	795.5	762.9	730.3	703.2	689.6	686.9
25°	4341.3	3833.6	2489.7	1324.9	811.8	760.2	724.9	692.3	665.2	648.9	643.5
27.5°	5066.2	4525.9	2972.9	1477.0	779.2	724.9	692.3	662.5	632.6	613.6	608.2
30°	5769.4	5272.6	3515.9	1667.0	754.8	689.6	662.5	632.6	605.4	575.6	567.4
32.5°	6524.2	6035.5	4124.1	1878.8	735.8	665.2	635.3	608.2	572.9	545.7	532.1
35°	7251.8	6822.8	4794.7	2085.1	716.8	643.5	610.9	583.7	545.7	515.9	496.8
37.5°	7984.9	7623.8	5495.2	2210.0	689.6	613.6	583.7	562.0	518.6	483.3	461.6
40°	8761.4	8451.8	6252.7	2158.4	665.2	581.0	564.7	540.3	491.4	450.7	423.5
42.5°	9613.9	9241.9	7023.7	1960.2	643.5	553.9	537.6	513.1	467.0	418.1	382.8
45°	10686.3	10108.0	7656.3	1661.6	654.3	526.7	494.1	488.7	445.3	382.8	339.4
47.5°	12529.8	11438.4	8147.8	1468.8	727.6	496.8	458.8	472.4	426.3	347.5	298.7
50°	15350.7	13643.0	8606.6	1455.2	838.9	483.3	426.3	461.6	407.3	312.2	263.4
52.5°	18038.6	15882.8	8899.8	1574.7	936.7	518.6	393.7	448.0	393.7	287.8	238.9
55°	20609.7	17175.2	8375.8	1661.6	1029.0	624.5	369.2	426.3	377.4	274.2	230.8
57.5°	23381.7	17750.8	6594.8	1838.1	1094.2	714.0	374.7	393.7	355.7	266.1	228.1
60°	24209.8	17015.0	3980.2	2068.8	1058.9	741.2	415.4	350.2	325.8	249.8	219.9
62.5°	22922.9	15269.3	2348.5	1884.2	1029.0	700.5	475.1	323.1	295.9	228.1	203.6
65°	20997.9	12899.0	1531.3	1591.0	1091.4	624.5	505.0	309.5	268.8	206.3	179.2
67.5°	18798.8	10390.4	1072.4	939.4	1007.3	562.0	426.3	306.8	241.6	173.8	146.6
70°	15834.0	7781.2	754.8	621.7	838.9	499.6	331.2	298.7	211.8	141.2	114.0
72.5°	12233.9	4870.7	562.0	401.8	597.3	407.3	263.4	252.5	171.0	116.7	86.9
75°	9022.0	2777.5	396.4	290.5	393.7	309.5	195.5	179.2	146.6	111.3	78.7
77.5°	4710.6	1390.1	247.1	222.6	225.3	192.8	141.2	130.3	135.8	111.3	73.3
80°	904.1	276.9	149.3	162.9	122.2	122.2	103.2	108.6	119.5	89.6	62.4
82.5°	377.4	59.7	81.5	92.3	76.0	84.2	84.2	86.9	84.2	65.2	46.2
85°	0.0	0.0	35.3	38.0	51.6	51.6	43.4	43.4	43.4	38.0	27.2
87.5°	0.0	0.0	0.0	0.0	2.7	8.1	16.3	19.0	21.7	16.3	10.9
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°	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8
2.5°	1134.9	1129.4	1137.6	1143.0	1148.5	1148.5	1143.0	1137.6	1129.4	1137.6	1129.4
5°	1048.0	1056.1	1069.7	1075.1	1080.6	1069.7	1064.3	1048.0	1034.4	1037.1	1031.7
7.5°	980.1	988.3	1004.6	1015.4	1015.4	1010.0	993.7	977.4	955.7	955.7	953.0
10°	917.7	928.5	947.5	961.1	966.5	961.1	944.8	923.1	904.1	904.1	896.0
12.5°	866.1	879.7	901.4	920.4	925.8	920.4	904.1	882.4	860.7	860.7	855.2
15°	822.7	838.9	863.4	885.1	893.2	885.1	866.1	838.9	817.2	819.9	811.8
17.5°	781.9	795.5	828.1	852.5	860.7	852.5	828.1	792.8	771.1	776.5	771.1
20°	735.8	752.1	784.6	811.8	819.9	811.8	784.6	746.6	724.9	724.9	727.6
22.5°	686.9	703.2	735.8	754.8	765.6	757.5	730.3	695.0	673.3	673.3	676.0
25°	643.5	651.6	676.0	695.0	697.8	689.6	667.9	640.7	624.5	632.6	635.3
27.5°	602.7	602.7	613.6	624.5	621.7	613.6	605.4	583.7	581.0	589.2	597.3
30°	559.3	545.7	540.3	532.1	529.4	526.7	534.9	534.9	540.3	551.1	559.3
32.5°	521.3	494.1	469.7	445.3	431.7	442.5	464.3	483.3	502.3	518.6	526.7
35°	477.8	434.4	393.7	361.1	339.4	355.7	391.0	426.3	458.8	480.6	494.1
37.5°	434.4	372.0	323.1	282.4	266.1	279.6	317.7	366.5	415.4	442.5	461.6
40°	388.2	309.5	252.5	219.9	203.6	217.2	255.2	304.1	369.2	404.5	429.0
42.5°	342.1	255.2	203.6	171.0	162.9	171.0	200.9	249.8	320.4	363.8	396.4
45°	295.9	211.8	162.9	138.5	130.3	138.5	162.9	203.6	274.2	323.1	361.1
47.5°	255.2	179.2	135.8	114.0	108.6	116.7	135.8	171.0	230.8	279.6	323.1
50°	222.6	157.5	116.7	97.7	92.3	100.5	116.7	143.9	195.5	238.9	285.1
52.5°	200.9	146.6	103.2	84.2	81.5	86.9	100.5	122.2	165.6	203.6	247.1
55°	195.5	146.6	95.0	76.0	73.3	78.7	89.6	105.9	143.9	176.5	214.5
57.5°	200.9	157.5	89.6	65.2	62.4	67.9	78.7	92.3	124.9	152.0	187.3
60°	200.9	160.2	78.7	51.6	48.9	54.3	65.2	81.5	111.3	133.0	162.9
62.5°	181.9	146.6	65.2	40.7	35.3	40.7	54.3	67.9	97.7	119.5	143.9
65°	157.5	124.9	54.3	29.9	24.4	29.9	43.4	57.0	84.2	103.2	130.3
67.5°	127.6	95.0	40.7	21.7	16.3	21.7	32.6	46.2	70.6	89.6	116.7
70°	95.0	67.9	32.6	19.0	16.3	19.0	29.9	43.4	62.4	81.5	108.6
72.5°	70.6	46.2	27.2	19.0	13.6	19.0	27.2	40.7	59.7	78.7	103.2
75°	59.7	38.0	24.4	16.3	13.6	16.3	24.4	38.0	54.3	73.3	97.7
77.5°	57.0	35.3	21.7	13.6	10.9	13.6	21.7	32.6	48.9	67.9	95.0
80°	48.9	29.9	19.0	10.9	8.1	10.9	19.0	27.2	38.0	51.6	73.3
82.5°	38.0	24.4	13.6	5.4	2.7	5.4	13.6	16.3	24.4	29.9	43.4
85°	24.4	13.6	5.4	0.0	0.0	0.0	5.4	10.9	10.9	13.6	21.7
87.5°	10.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.4	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8
2.5°	1145.7	1148.5	1153.9	1162.0	1181.0	1197.3	1213.6	1235.3	1246.2	1246.2
5°	1037.1	1039.9	1042.6	1053.4	1080.6	1102.3	1137.6	1181.0	1202.8	1208.2
7.5°	953.0	958.4	963.8	972.0	999.1	1029.0	1075.1	1156.6	1197.3	1205.5
10°	904.1	912.2	923.1	939.4	963.8	996.4	1075.1	1221.8	1289.6	1303.2
12.5°	866.1	879.7	890.5	909.5	939.4	991.0	1148.5	1406.4	1525.8	1558.4
15°	828.1	844.4	860.7	879.7	912.2	1010.0	1289.6	1737.6	1935.8	1960.2
17.5°	790.1	809.1	830.8	852.5	893.2	1056.1	1512.3	2196.4	2473.4	2527.7
20°	746.6	771.1	800.9	828.1	874.2	1129.4	1821.8	2742.2	3089.7	3206.4
22.5°	700.5	730.3	765.6	800.9	852.5	1219.0	2196.4	3328.6	3814.6	3890.6
25°	662.5	692.3	724.9	760.2	817.2	1327.6	2649.9	4056.2	4498.8	4572.1
27.5°	627.2	657.0	686.9	719.5	781.9	1468.8	3195.6	4830.0	5291.6	5367.6
30°	589.2	624.5	654.3	686.9	749.3	1642.6	3825.5	5688.0	6125.1	6195.7
32.5°	556.6	591.9	621.7	654.3	724.9	1832.6	4487.9	6448.2	6803.8	6803.8
35°	529.4	567.4	589.2	632.6	705.9	1954.8	5115.1	7173.1	7441.9	7431.0
37.5°	499.6	545.7	562.0	591.9	681.5	1968.4	5704.3	7938.7	8136.9	8066.3
40°	469.7	518.6	543.0	559.3	654.3	1857.1	6350.4	8641.9	8810.2	8717.9
42.5°	442.5	480.6	515.9	534.9	638.0	1661.6	6869.0	9394.0	9594.9	9513.4
45°	415.4	448.0	469.7	505.0	648.9	1525.8	7314.3	10270.9	10623.9	10564.1
47.5°	388.2	415.4	429.0	483.3	722.2	1463.4	7585.8	11628.4	12293.6	12244.7
50°	358.4	391.0	391.0	477.8	830.8	1485.1	7822.0	13594.1	14623.1	14606.8
52.5°	328.5	363.8	358.4	518.6	915.0	1585.6	8090.8	15329.0	17118.2	17267.5
55°	298.7	331.2	336.7	600.0	963.8	1672.5	7050.9	16059.3	19249.5	19773.5
57.5°	266.1	285.1	350.2	662.5	947.5	1924.9	4830.0	16192.4	20609.7	21733.7
60°	230.8	247.1	396.4	648.9	896.0	1778.3	3040.8	14997.8	20416.9	21842.3
62.5°	200.9	228.1	418.1	572.9	912.2	1542.1	1938.5	12782.3	18578.9	20205.2
65°	176.5	219.9	380.1	518.6	923.1	1045.3	1308.6	10398.5	16784.2	18331.8
67.5°	157.5	244.4	312.2	461.6	792.8	735.8	898.7	8079.9	14112.7	15500.0
70°	143.9	249.8	255.2	396.4	613.6	472.4	591.9	5438.2	9727.9	11313.5
72.5°	130.3	184.6	192.8	317.7	396.4	287.8	382.8	3111.4	7091.6	8172.2
75°	124.9	124.9	133.0	206.3	219.9	209.1	247.1	1857.1	5085.2	5875.3
77.5°	116.7	95.0	84.2	133.0	119.5	149.3	146.6	825.4	2204.6	2383.8
80°	92.3	67.9	57.0	84.2	81.5	100.5	86.9	67.9	100.5	97.7
82.5°	57.0	43.4	40.7	51.6	46.2	51.6	40.7	10.9	10.9	10.9
85°	27.2	24.4	21.7	21.7	24.4	21.7	16.3	5.4	2.7	2.7
87.5°	13.6	13.6	10.9	8.1	10.9	10.9	8.1	2.7	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)