

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: P640355

Luminaire Tested: GWS-SA5D-760-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640355
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-SA5D-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: 18809.1 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

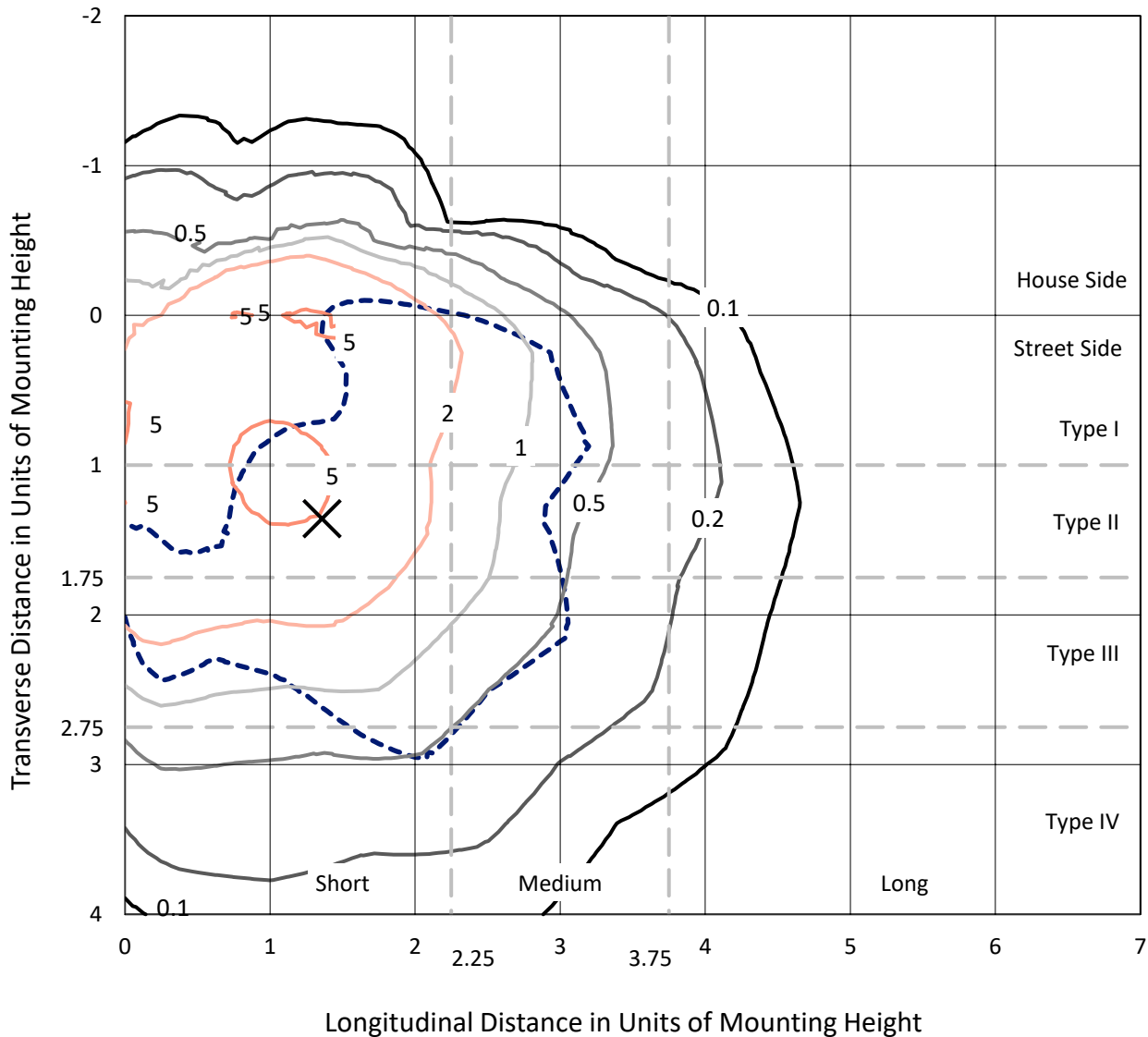
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

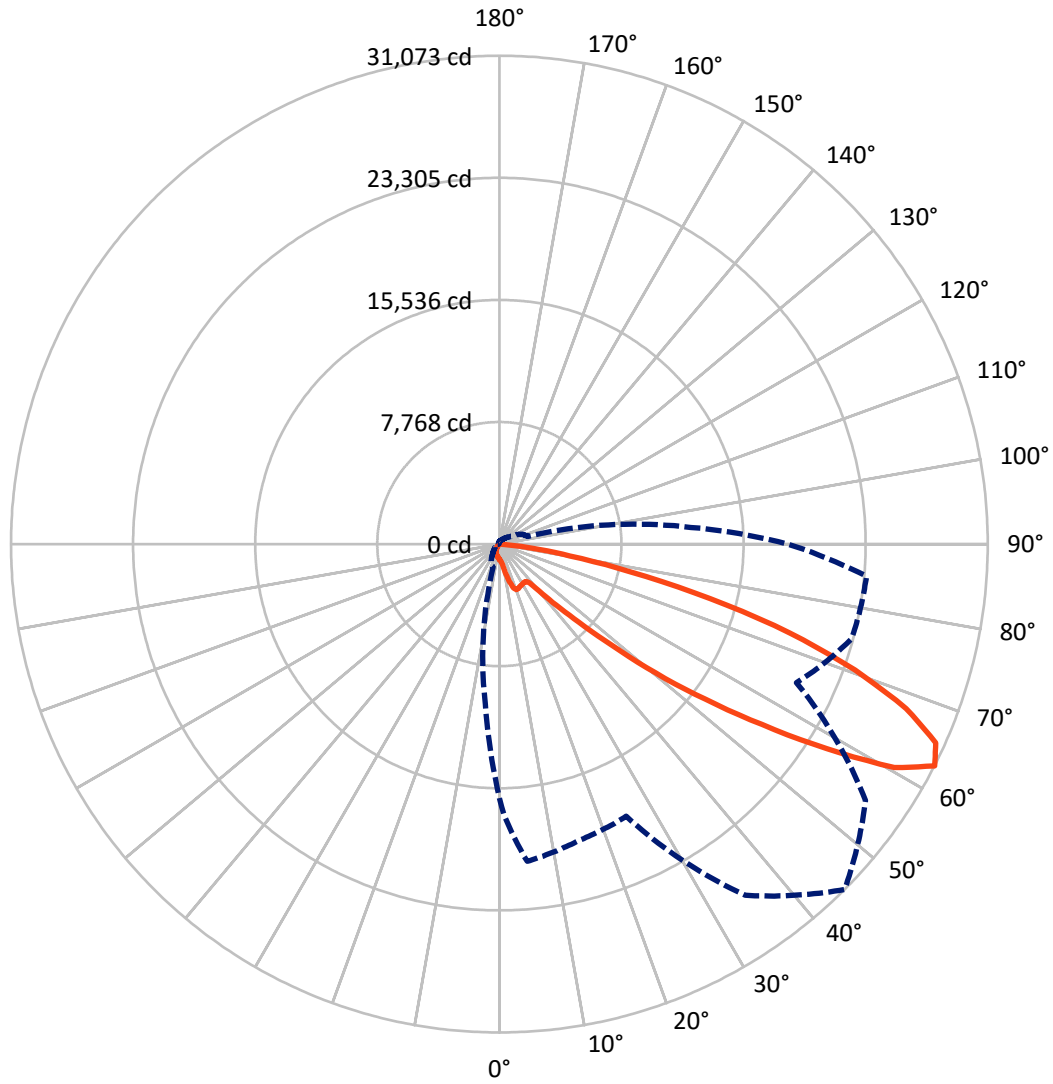
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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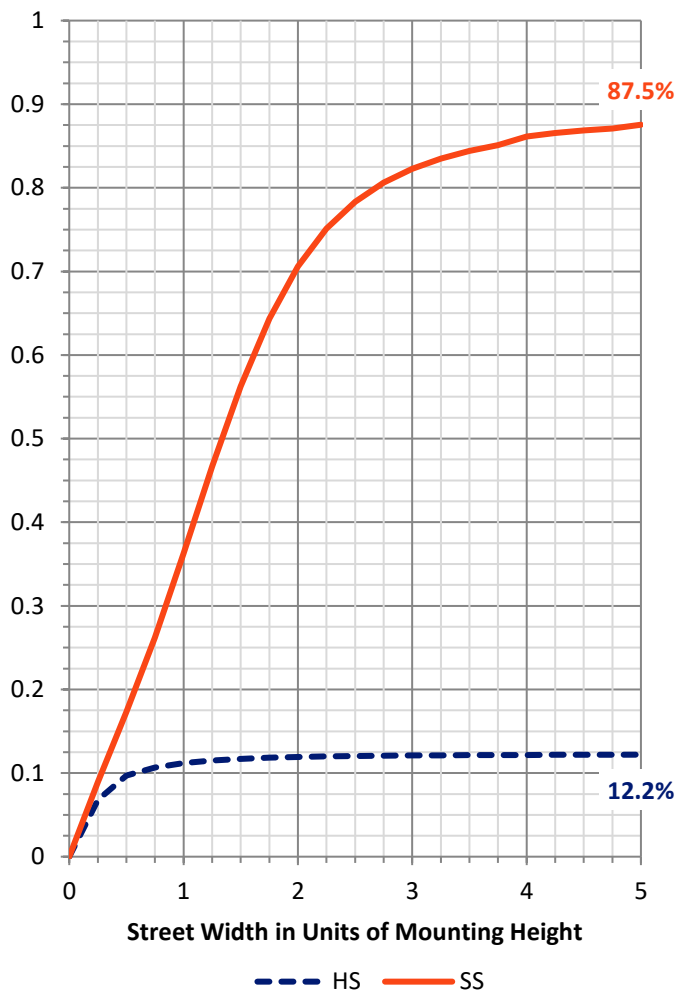
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2321.0	0.0	2321.0
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	16488.1	0.0	16488.1
	% Fixture	87.7	0.0	87.7
Total	Lumens	18809.1	0.0	18809.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	0.5
10°-20°	327.9	1.7
20°-30°	712.9	3.8
30°-40°	1170.0	6.2
40°-50°	2150.9	11.4
50°-60°	4619.2	24.6
60°-70°	6204.4	33.0
70°-80°	3230.7	17.2
80°-90°	306.3	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°	18809.1	100.0
0°-180°	18809.1	100.0

Coefficient of Utilization

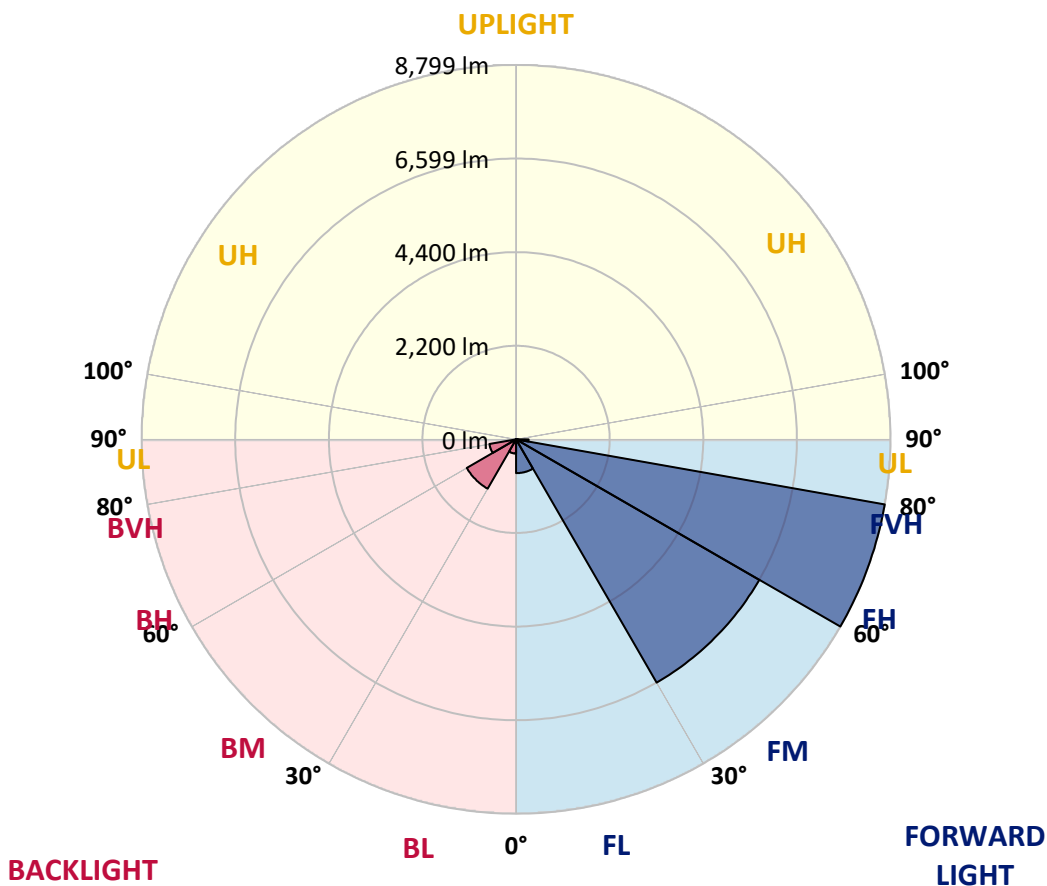


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	794.6	4.2			
FM (30°-60°)	6601.8	35.1			
FH (60°-80°)	8799.1	46.8			G4/12000
FVH (80°-90°)	292.7	1.6			G3/500
BL (0°-30°)	332.9	1.8	B1/500		
BM (30°-60°)	1338.4	7.1	B2/2500		
BH (60°-80°)	636.0	3.4	B2/1000		G2/1000
BVH (80°-90°)	13.7	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°	977.7	977.7	977.7	977.7	977.7	977.7	977.7	977.7	977.7	977.7	977.7
2.5°	997.2	1001.6	1005.9	1021.1	1032.0	1040.7	1042.9	1036.3	1021.1	1005.9	984.2
5°	966.8	971.2	986.4	1027.6	1068.9	1101.5	1112.4	1105.9	1068.9	1021.1	971.2
7.5°	964.6	973.3	1010.3	1097.2	1186.3	1253.6	1271.0	1255.8	1186.3	1090.7	988.5
10°	1042.9	1058.1	1112.4	1268.8	1431.8	1551.3	1599.0	1533.9	1423.1	1249.3	1082.0
12.5°	1247.1	1273.2	1377.4	1605.6	1857.6	2016.2	2081.4	2001.0	1827.2	1575.2	1310.1
15°	1568.6	1607.7	1764.2	2105.3	2402.9	2544.1	2565.9	2520.2	2318.2	2040.1	1683.8
17.5°	2022.7	2079.2	2322.5	2670.2	2885.2	2935.2	2928.7	2880.9	2733.2	2542.0	2205.2
20°	2565.9	2633.2	2872.2	3159.0	3180.7	3122.1	3089.5	3061.2	3011.3	2978.7	2715.8
22.5°	3113.4	3195.9	3445.8	3517.5	3321.9	3152.5	3072.1	3093.8	3167.7	3328.5	3222.0
25°	3658.7	3736.9	3971.6	3778.2	3387.1	3104.7	3002.6	3054.7	3230.7	3578.3	3715.2
27.5°	4295.3	4353.9	4493.0	3956.3	3398.0	3065.6	2965.6	3046.0	3261.1	3734.7	4256.2
30°	4957.9	4992.7	4925.3	4004.1	3361.0	3006.9	2928.7	3046.0	3313.2	3839.0	4662.4
32.5°	5444.6	5451.1	5231.7	4008.5	3341.5	2959.1	2893.9	3033.0	3363.2	3925.9	5055.7
35°	5946.5	5913.9	5525.0	4073.7	3393.6	2976.5	2920.0	3069.9	3441.4	4028.0	5401.1
37.5°	6454.9	6396.2	5853.0	4180.1	3528.3	3165.5	3130.7	3258.9	3567.4	4169.3	5781.3
40°	6976.3	6895.9	6194.1	4340.9	3828.2	3808.6	3928.1	3912.9	3912.9	4349.6	6172.4
42.5°	7612.9	7519.4	6698.2	4795.0	4527.7	4964.4	5290.3	5088.3	4714.6	4764.6	6680.8
45°	8453.7	8373.3	7571.6	5664.0	5624.9	6628.7	7067.5	6667.8	5737.9	5722.7	7530.3
47.5°	9798.5	9783.3	8964.2	6672.1	6967.6	8747.0	9594.3	8825.2	6904.6	6737.3	9138.0
50°	11688.7	11643.1	10700.2	7854.0	8564.5	11371.5	12883.6	11601.8	8314.6	7921.4	11291.1
52.5°	13817.9	13865.7	13131.3	9144.6	10261.3	14291.5	16396.8	14782.5	9846.3	9427.0	14000.4
55°	15823.2	16096.9	15903.6	10654.5	11919.0	17515.7	20255.3	18271.7	11743.0	11397.6	17037.7
57.5°	17391.8	18163.1	19518.8	12848.9	13867.8	21287.3	24563.7	22054.3	13956.9	14597.8	21172.2
60°	17478.7	18499.9	21648.0	17439.6	16375.0	24522.4	28865.4	25749.9	17437.5	20031.6	24411.6
62.5°	16168.6	17263.6	20261.9	19525.3	19106.0	27275.1	31072.8	28444.0	20861.5	23214.5	23451.3
65°	14669.5	15775.4	18715.0	17159.4	18788.8	27157.8	30512.3	28507.0	21172.2	21050.5	21732.7
67.5°	12403.5	13396.4	16057.8	15188.8	17318.0	25847.7	27922.5	26710.2	19505.8	19688.3	19992.5
70°	9053.3	10009.3	12479.5	12523.0	15123.6	23486.0	23992.3	23825.0	17963.2	18156.6	17287.5
72.5°	6539.6	7345.6	9477.0	10270.0	12073.3	19694.8	19345.0	19990.3	15412.6	16170.8	13885.2
75°	4701.6	5305.5	6952.4	8933.8	9570.4	14626.1	13848.3	15482.1	12366.6	13924.3	10439.4
77.5°	1907.6	2120.5	2735.3	6018.2	6289.7	9839.8	8477.6	11245.5	8816.5	9148.9	5060.0
80°	78.2	86.9	113.0	3106.8	4312.7	5535.8	4536.4	6011.6	5822.6	3684.8	1194.9
82.5°	8.7	8.7	19.6	895.1	1888.0	3054.7	2137.9	3463.2	2948.2	1562.1	543.2
85°	2.2	2.2	4.3	102.1	443.2	488.8	289.0	1062.4	1370.9	638.8	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	19.6	21.7	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°	977.7	977.7	977.7	977.7	977.7	977.7	977.7	977.7	977.7	977.7	977.7
2.5°	984.2	973.3	960.3	947.3	940.7	923.4	916.8	912.5	908.2	910.3	910.3
5°	951.6	927.7	899.5	871.2	856.0	838.6	829.9	825.6	827.8	836.5	836.5
7.5°	947.3	901.6	840.8	803.9	786.5	773.5	764.8	760.4	762.6	773.5	777.8
10°	1019.0	938.6	829.9	766.9	747.4	734.3	725.7	719.1	714.8	723.5	725.7
12.5°	1173.2	1062.4	882.1	762.6	727.8	710.4	703.9	690.9	684.4	688.7	690.9
15°	1492.6	1301.4	986.4	780.0	710.4	690.9	680.0	669.2	658.3	656.1	658.3
17.5°	1909.7	1636.0	1145.0	821.3	697.4	673.5	658.3	643.1	627.9	625.7	623.5
20°	2426.8	2046.6	1366.6	886.4	686.5	658.3	636.6	614.9	595.3	588.8	588.8
22.5°	2898.3	2542.0	1651.2	966.8	671.3	636.6	610.5	584.4	562.7	551.8	549.7
25°	3474.0	3067.7	1992.3	1060.2	649.6	608.3	580.1	554.0	532.3	519.3	514.9
27.5°	4054.1	3621.8	2379.0	1181.9	623.5	580.1	554.0	530.1	506.2	491.0	486.7
30°	4616.8	4219.2	2813.5	1334.0	604.0	551.8	530.1	506.2	484.5	460.6	454.1
32.5°	5220.8	4829.7	3300.2	1503.5	588.8	532.3	508.4	486.7	458.4	436.7	425.8
35°	5803.1	5459.8	3836.8	1668.6	573.6	514.9	488.8	467.1	436.7	412.8	397.6
37.5°	6389.7	6100.7	4397.4	1768.5	551.8	491.0	467.1	449.7	415.0	386.7	369.3
40°	7011.0	6763.4	5003.5	1727.2	532.3	464.9	451.9	432.4	393.2	360.7	338.9
42.5°	7693.3	7395.6	5620.6	1568.6	514.9	443.2	430.2	410.6	373.7	334.6	306.3
45°	8551.4	8088.7	6126.8	1329.6	523.6	421.5	395.4	391.1	356.3	306.3	271.6
47.5°	10026.6	9153.3	6520.0	1175.4	582.3	397.6	367.2	378.0	341.1	278.1	239.0
50°	12284.0	10917.4	6887.2	1164.5	671.3	386.7	341.1	369.3	325.9	249.9	210.7
52.5°	14434.9	12709.8	7121.9	1260.1	749.6	415.0	315.0	358.5	315.0	230.3	191.2
55°	16492.4	13744.0	6702.5	1329.6	823.4	499.7	295.5	341.1	302.0	219.4	184.7
57.5°	18710.6	14204.6	5277.3	1470.9	875.6	571.4	299.8	315.0	284.6	212.9	182.5
60°	19373.3	13615.8	3185.1	1655.5	847.3	593.1	332.4	280.3	260.7	199.9	176.0
62.5°	18343.4	12218.8	1879.3	1507.8	823.4	560.5	380.2	258.5	236.8	182.5	162.9
65°	16803.1	10322.1	1225.4	1273.2	873.4	499.7	404.1	247.7	215.1	165.1	143.4
67.5°	15043.2	8314.6	858.2	751.7	806.0	449.7	341.1	245.5	193.4	139.0	117.3
70°	12670.7	6226.7	604.0	497.5	671.3	399.8	265.1	239.0	169.5	113.0	91.3
72.5°	9789.8	3897.7	449.7	321.5	478.0	325.9	210.7	202.1	136.9	93.4	69.5
75°	7219.6	2222.6	317.2	232.5	315.0	247.7	156.4	143.4	117.3	89.1	63.0
77.5°	3769.5	1112.4	197.7	178.2	180.3	154.3	113.0	104.3	108.6	89.1	58.7
80°	723.5	221.6	119.5	130.4	97.8	97.8	82.6	86.9	95.6	71.7	50.0
82.5°	302.0	47.8	65.2	73.9	60.8	67.4	67.4	69.5	67.4	52.1	36.9
85°	0.0	0.0	28.2	30.4	41.3	41.3	34.8	34.8	34.8	30.4	21.7
87.5°	0.0	0.0	0.0	0.0	2.2	6.5	13.0	15.2	17.4	13.0	8.7
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°	977.7	977.7	977.7	977.7	977.7	977.7	977.7	977.7	977.7	977.7	977.7
2.5°	908.2	903.8	910.3	914.7	919.0	919.0	914.7	910.3	903.8	910.3	903.8
5°	838.6	845.1	856.0	860.4	864.7	856.0	851.7	838.6	827.8	829.9	825.6
7.5°	784.3	790.8	803.9	812.6	812.6	808.2	795.2	782.1	764.8	764.8	762.6
10°	734.3	743.0	758.2	769.1	773.5	769.1	756.1	738.7	723.5	723.5	717.0
12.5°	693.1	703.9	721.3	736.5	740.9	736.5	723.5	706.1	688.7	688.7	684.4
15°	658.3	671.3	690.9	708.3	714.8	708.3	693.1	671.3	654.0	656.1	649.6
17.5°	625.7	636.6	662.6	682.2	688.7	682.2	662.6	634.4	617.0	621.4	617.0
20°	588.8	601.8	627.9	649.6	656.1	649.6	627.9	597.5	580.1	580.1	582.3
22.5°	549.7	562.7	588.8	604.0	612.7	606.2	584.4	556.2	538.8	538.8	541.0
25°	514.9	521.4	541.0	556.2	558.4	551.8	534.5	512.7	499.7	506.2	508.4
27.5°	482.3	482.3	491.0	499.7	497.5	491.0	484.5	467.1	464.9	471.5	478.0
30°	447.6	436.7	432.4	425.8	423.7	421.5	428.0	428.0	432.4	441.0	447.6
32.5°	417.1	395.4	375.9	356.3	345.4	354.1	371.5	386.7	401.9	415.0	421.5
35°	382.4	347.6	315.0	289.0	271.6	284.6	312.9	341.1	367.2	384.6	395.4
37.5°	347.6	297.6	258.5	226.0	212.9	223.8	254.2	293.3	332.4	354.1	369.3
40°	310.7	247.7	202.1	176.0	162.9	173.8	204.2	243.3	295.5	323.7	343.3
42.5°	273.8	204.2	162.9	136.9	130.4	136.9	160.8	199.9	256.4	291.1	317.2
45°	236.8	169.5	130.4	110.8	104.3	110.8	130.4	162.9	219.4	258.5	289.0
47.5°	204.2	143.4	108.6	91.3	86.9	93.4	108.6	136.9	184.7	223.8	258.5
50°	178.2	126.0	93.4	78.2	73.9	80.4	93.4	115.1	156.4	191.2	228.1
52.5°	160.8	117.3	82.6	67.4	65.2	69.5	80.4	97.8	132.5	162.9	197.7
55°	156.4	117.3	76.0	60.8	58.7	63.0	71.7	84.7	115.1	141.2	171.6
57.5°	160.8	126.0	71.7	52.1	50.0	54.3	63.0	73.9	99.9	121.7	149.9
60°	160.8	128.2	63.0	41.3	39.1	43.5	52.1	65.2	89.1	106.5	130.4
62.5°	145.6	117.3	52.1	32.6	28.2	32.6	43.5	54.3	78.2	95.6	115.1
65°	126.0	99.9	43.5	23.9	19.6	23.9	34.8	45.6	67.4	82.6	104.3
67.5°	102.1	76.0	32.6	17.4	13.0	17.4	26.1	36.9	56.5	71.7	93.4
70°	76.0	54.3	26.1	15.2	13.0	15.2	23.9	34.8	50.0	65.2	86.9
72.5°	56.5	36.9	21.7	15.2	10.9	15.2	21.7	32.6	47.8	63.0	82.6
75°	47.8	30.4	19.6	13.0	10.9	13.0	19.6	30.4	43.5	58.7	78.2
77.5°	45.6	28.2	17.4	10.9	8.7	10.9	17.4	26.1	39.1	54.3	76.0
80°	39.1	23.9	15.2	8.7	6.5	8.7	15.2	21.7	30.4	41.3	58.7
82.5°	30.4	19.6	10.9	4.3	2.2	4.3	10.9	13.0	19.6	23.9	34.8
85°	19.6	10.9	4.3	0.0	0.0	0.0	4.3	8.7	8.7	10.9	17.4
87.5°	8.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.3	6.5
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°	977.7	977.7	977.7	977.7	977.7	977.7	977.7	977.7	977.7	977.7
2.5°	916.8	919.0	923.4	929.9	945.1	958.1	971.2	988.5	997.2	997.2
5°	829.9	832.1	834.3	843.0	864.7	882.1	910.3	945.1	962.5	966.8
7.5°	762.6	766.9	771.3	777.8	799.5	823.4	860.4	925.5	958.1	964.6
10°	723.5	730.0	738.7	751.7	771.3	797.4	860.4	977.7	1032.0	1042.9
12.5°	693.1	703.9	712.6	727.8	751.7	793.0	919.0	1125.4	1221.0	1247.1
15°	662.6	675.7	688.7	703.9	730.0	808.2	1032.0	1390.5	1549.1	1568.6
17.5°	632.2	647.4	664.8	682.2	714.8	845.1	1210.1	1757.7	1979.3	2022.7
20°	597.5	617.0	640.9	662.6	699.6	903.8	1457.8	2194.3	2472.4	2565.9
22.5°	560.5	584.4	612.7	640.9	682.2	975.5	1757.7	2663.6	3052.5	3113.4
25°	530.1	554.0	580.1	608.3	654.0	1062.4	2120.5	3245.9	3600.0	3658.7
27.5°	501.9	525.8	549.7	575.7	625.7	1175.4	2557.2	3865.1	4234.4	4295.3
30°	471.5	499.7	523.6	549.7	599.6	1314.4	3061.2	4551.6	4901.4	4957.9
32.5°	445.4	473.6	497.5	523.6	580.1	1466.5	3591.3	5160.0	5444.6	5444.6
35°	423.7	454.1	471.5	506.2	564.9	1564.3	4093.2	5740.1	5955.2	5946.5
37.5°	399.8	436.7	449.7	473.6	545.3	1575.2	4564.7	6352.7	6511.3	6454.9
40°	375.9	415.0	434.5	447.6	523.6	1486.1	5081.8	6915.5	7050.2	6976.3
42.5°	354.1	384.6	412.8	428.0	510.6	1329.6	5496.7	7517.3	7678.0	7612.9
45°	332.4	358.5	375.9	404.1	519.3	1221.0	5853.0	8219.0	8501.5	8453.7
47.5°	310.7	332.4	343.3	386.7	577.9	1171.0	6070.3	9305.3	9837.6	9798.5
50°	286.8	312.9	312.9	382.4	664.8	1188.4	6259.3	10878.3	11701.7	11688.7
52.5°	262.9	291.1	286.8	415.0	732.2	1268.8	6474.4	12266.6	13698.4	13817.9
55°	239.0	265.1	269.4	480.1	771.3	1338.3	5642.3	12851.1	15403.9	15823.2
57.5°	212.9	228.1	280.3	530.1	758.2	1540.4	3865.1	12957.5	16492.4	17391.8
60°	184.7	197.7	317.2	519.3	717.0	1423.1	2433.3	12001.6	16338.1	17478.7
62.5°	160.8	182.5	334.6	458.4	730.0	1234.0	1551.3	10228.7	14867.2	16168.6
65°	141.2	176.0	304.2	415.0	738.7	836.5	1047.2	8321.1	13431.1	14669.5
67.5°	126.0	195.5	249.9	369.3	634.4	588.8	719.1	6465.7	11293.3	12403.5
70°	115.1	199.9	204.2	317.2	491.0	378.0	473.6	4351.8	7784.5	9053.3
72.5°	104.3	147.7	154.3	254.2	317.2	230.3	306.3	2489.8	5674.9	6539.6
75°	99.9	99.9	106.5	165.1	176.0	167.3	197.7	1486.1	4069.3	4701.6
77.5°	93.4	76.0	67.4	106.5	95.6	119.5	117.3	660.5	1764.2	1907.6
80°	73.9	54.3	45.6	67.4	65.2	80.4	69.5	54.3	80.4	78.2
82.5°	45.6	34.8	32.6	41.3	36.9	41.3	32.6	8.7	8.7	8.7
85°	21.7	19.6	17.4	17.4	19.6	17.4	13.0	4.3	2.2	2.2
87.5°	10.9	10.9	8.7	6.5	8.7	8.7	6.5	2.2	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)