

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: P455713

Luminaire Tested: **GALN-SA6D-830-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31422 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

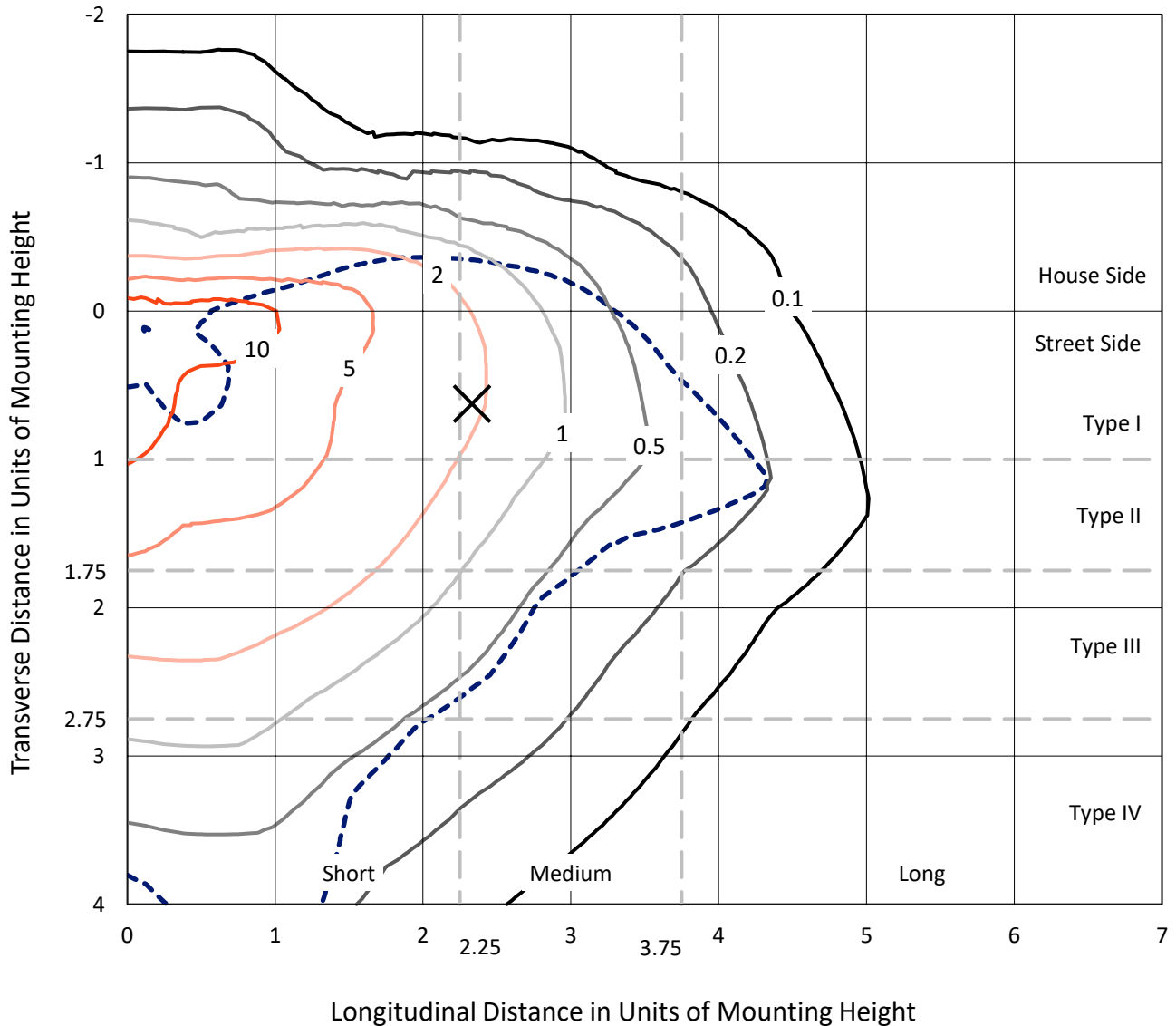
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

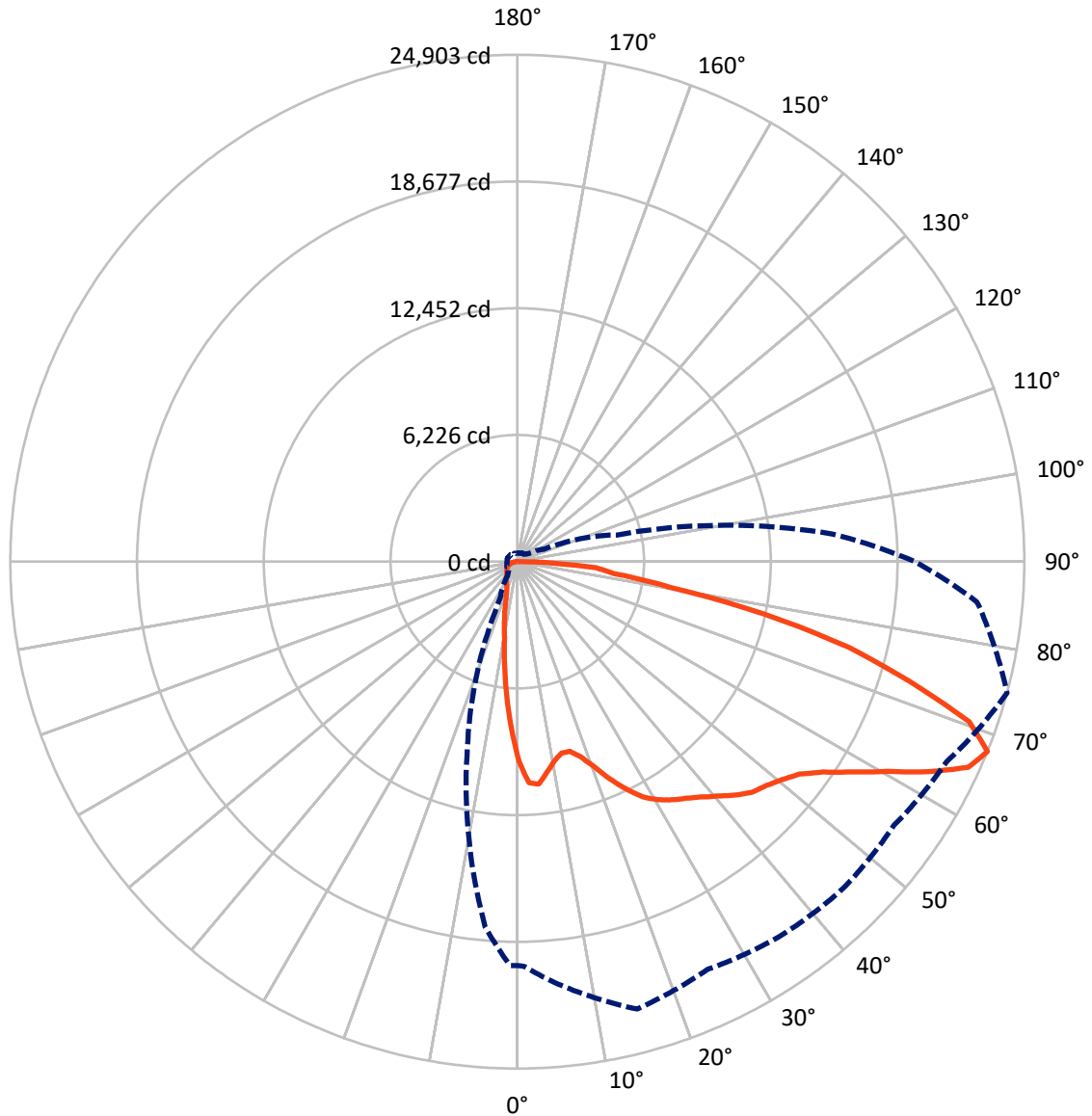
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5311.0	0.0	5311.0
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	26111.0	0.0	26111.0
	% Fixture	83.1	0.0	83.1
Total	Lumens	31422.0	0.0	31422.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	744.6	2.4
10°-20°	1552.9	4.9
20°-30°	2234.6	7.1
30°-40°	3218.4	10.2
40°-50°	4521.0	14.4
50°-60°	6305.3	20.1
60°-70°	7496.5	23.9
70°-80°	4415.1	14.1
80°-90°	933.6	3.0
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°	31422.0	100.0
0°-180°	31422.0	100.0

Coefficient of Utilization



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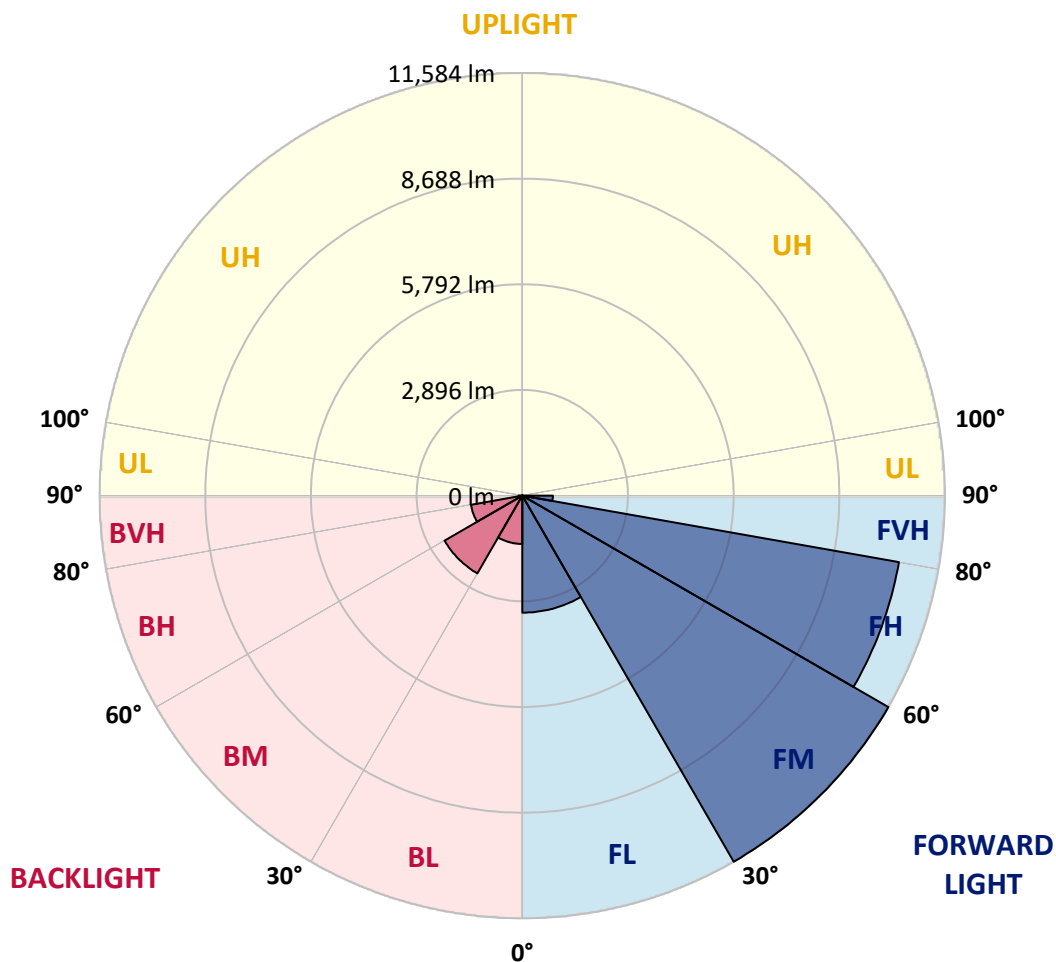
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3207.3	10.2			
FM	(30°-60°)	11584.1	36.9			
FH	(60°-80°)	10482.5	33.4			G4/12000
FVH	(80°-90°)	837.0	2.7			G5
BL	(0°-30°)	1324.7	4.2	B3/2500		
BM	(30°-60°)	2460.6	7.8	B2/2500		
BH	(60°-80°)	1429.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	96.6	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-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9817.0	9817.0	9817.0	9817.0	9817.0	9817.0	9817.0	9817.0	9817.0	9817.0	9817.0
2.5°	10584.7	10598.8	10689.5	10953.4	11134.8	11201.3	11247.6	11161.0	11076.3	10870.8	10560.5
5°	10552.4	10635.1	10870.8	11463.2	11930.7	12132.2	12192.6	11932.7	11503.5	10975.6	10340.9
7.5°	9935.9	10046.7	10409.4	11402.8	12226.9	12698.4	12635.9	12166.4	11392.7	10451.7	9565.1
10°	9204.4	9327.3	9764.6	10965.5	12027.4	12676.2	12676.2	12104.0	11076.3	9958.0	8936.4
12.5°	8624.1	8753.1	9252.8	10516.2	11612.3	12226.9	12329.7	11838.0	10848.6	9645.7	8523.4
15°	8432.7	8557.6	9095.6	10244.2	11173.1	11547.8	11582.1	11420.9	10737.8	9667.9	8505.2
17.5°	8670.5	8831.7	9375.7	10324.8	10770.1	10792.2	10818.4	10945.4	10749.9	10072.9	8872.0
20°	9357.6	9530.8	10099.1	10584.7	10417.4	10187.7	10201.8	10528.3	10893.0	10741.9	9748.5
22.5°	10348.9	10500.1	11082.4	11042.1	10268.3	9794.8	9696.1	10151.5	11104.5	11576.1	10681.4
25°	11418.9	11596.2	12265.2	11721.1	10310.6	9561.1	9498.6	9929.8	11324.2	12355.8	11759.4
27.5°	12644.0	12817.3	13345.2	12406.2	10532.3	9542.9	9468.4	9909.7	11521.6	13077.2	12789.1
30°	13554.8	13713.9	14072.6	12982.5	10804.3	9663.8	9571.1	10068.8	11690.9	13570.9	13792.5
32.5°	14270.1	14435.3	14630.8	13341.2	11163.0	9883.5	9712.2	10359.0	11912.6	13947.7	14536.1
35°	15015.6	15211.1	15197.0	13659.5	11497.5	10137.4	9970.1	10778.1	12261.1	14276.1	15479.1
37.5°	15960.6	16039.2	15938.5	13945.7	11898.4	10594.8	10502.1	11400.7	12756.8	14673.1	16581.3
40°	16919.8	17076.9	16559.1	14292.2	12386.1	11455.2	11445.1	12321.6	13345.2	15138.5	17649.2
42.5°	17741.9	17874.9	17139.4	14594.5	12976.5	12505.0	12581.5	13556.8	14116.9	15678.5	18507.6
45°	18360.5	18479.4	17675.4	14886.7	13754.2	13718.0	14169.3	14880.6	15090.2	16164.2	19011.3
47.5°	18886.4	19001.2	18048.2	15330.0	14715.4	15166.7	15952.6	16260.9	15922.4	16442.2	19575.5
50°	19329.7	19363.9	18304.1	15857.9	15908.3	16941.9	17703.6	17903.1	16744.5	16841.2	20065.2
52.5°	19791.1	19746.8	18745.3	16522.8	17197.8	18626.5	19180.6	19388.1	17532.3	17332.8	20778.5
55°	20824.8	20867.1	19734.7	17361.1	18501.5	20280.8	21010.2	20810.7	18404.8	18237.6	21685.2
57.5°	22074.1	22037.8	21127.1	18672.8	19829.4	21820.2	22364.2	22043.9	19569.5	19480.8	22604.0
60°	22559.7	22608.1	22291.7	20083.3	21139.1	23168.2	23724.4	23226.7	20965.9	20925.6	23297.2
62.5°	22072.1	22344.1	22557.7	21338.6	22255.4	24159.6	24711.7	24143.5	22422.7	22714.9	23782.8
65°	21100.9	21159.3	21886.7	22402.5	22793.4	24322.8	24611.0	24308.7	23639.7	24345.0	23760.6
67.5°	19839.5	19889.9	20742.2	22751.1	22100.3	22469.0	22670.5	22581.9	23262.9	24903.1	22666.5
70°	18638.6	18598.3	19498.9	21862.5	19239.0	18678.9	18846.1	18568.0	20073.2	23539.0	20520.5
72.5°	16301.2	16446.3	17413.4	19392.2	15233.2	14322.5	14687.2	13967.8	15438.8	20159.9	16655.8
75°	12768.9	12803.2	14417.2	16275.0	11491.4	10054.7	10548.4	10248.2	11825.9	16817.0	11501.5
77.5°	8841.7	8765.2	10500.1	12430.4	8194.9	7360.7	7368.8	7225.7	8257.4	12382.0	7814.1
80°	5615.7	5498.9	6572.9	7679.1	5631.9	6024.8	5827.3	5821.3	5376.0	7638.8	4725.1
82.5°	3034.6	3163.5	4152.9	4813.8	4040.0	4656.6	4267.7	4142.8	3689.4	4781.5	3022.5
85°	1382.3	1503.2	2214.5	3274.3	3068.8	3103.1	2073.4	2446.2	3052.7	3882.9	1614.0
87.5°	135.0	173.3	457.4	1545.5	1047.8	826.1	308.3	594.4	767.7	1380.3	129.0
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°	9817.0	9817.0	9817.0	9817.0	9817.0	9817.0	9817.0	9817.0	9817.0	9817.0	9817.0
2.5°	10433.6	10328.8	9972.1	9677.9	9365.6	9127.9	8817.5	8610.0	8466.9	8251.3	8225.1
5°	9954.0	9698.1	9077.5	8444.8	7898.7	7487.7	7070.6	6687.7	6462.0	6391.5	6300.8
7.5°	9146.0	8714.8	7916.9	7191.5	6564.8	5952.2	5480.7	5146.3	4922.6	4791.6	4634.5
10°	8481.0	7981.3	7010.1	6121.5	5605.7	5224.8	4809.8	4451.1	4175.0	3939.3	3810.3
12.5°	8033.7	7469.5	6377.4	5656.0	5257.1	4852.1	4366.5	3963.5	3556.4	3288.4	3173.6
15°	7898.7	7302.3	6182.0	5424.3	4852.1	4322.1	3778.1	3252.2	2849.2	2595.3	2510.7
17.5°	8229.2	7507.8	6179.9	5116.0	4376.5	3743.8	3046.6	2553.0	2139.9	1950.5	1890.1
20°	8845.8	7902.7	6198.1	4811.8	3860.7	2970.1	2216.5	1811.5	1614.0	1533.4	1503.2
22.5°	9706.2	8505.2	6252.5	4511.5	3296.5	2281.0	1660.3	1454.8	1384.3	1370.2	1364.1
25°	10766.0	9250.8	6435.8	4241.5	2821.0	1740.9	1388.3	1295.6	1255.3	1241.2	1239.2
27.5°	11741.3	10213.9	6657.5	4009.8	2361.6	1501.2	1255.3	1176.7	1136.4	1134.4	1138.5
30°	12621.8	11019.9	6842.9	3749.9	2013.0	1333.9	1168.7	1090.1	1051.8	1049.8	1061.9
32.5°	13383.5	11682.8	6979.9	3494.0	1819.5	1231.2	1090.1	1005.5	973.2	967.2	973.2
35°	14197.5	12343.8	6917.4	3294.5	1708.7	1146.5	1031.7	949.1	910.8	892.6	892.6
37.5°	15126.4	13024.8	6810.6	3129.3	1658.3	1076.0	981.3	900.7	862.4	844.3	842.3
40°	16140.0	13705.9	6663.5	2982.2	1608.0	1033.7	947.0	862.4	816.1	797.9	793.9
42.5°	17034.6	14288.2	6542.6	2885.4	1525.3	1041.7	916.8	834.2	775.8	751.6	749.6
45°	17812.4	14874.6	6520.5	2829.0	1456.8	1029.7	908.8	812.0	743.5	717.3	713.3
47.5°	18420.9	15485.1	6647.4	2796.8	1382.3	965.2	961.1	797.9	715.3	687.1	683.1
50°	19162.4	16351.6	6937.6	2730.3	1313.8	904.7	1015.5	795.9	693.2	656.9	646.8
52.5°	20149.8	17479.9	7330.5	2611.4	1215.0	848.3	969.2	795.9	667.0	630.7	618.6
55°	21642.9	18918.6	7715.4	2444.2	1076.0	773.8	874.5	771.7	628.7	596.4	588.4
57.5°	22632.2	19970.5	7961.2	2212.4	902.7	719.3	753.6	733.5	590.4	556.1	556.1
60°	22682.6	20252.6	7844.3	1920.3	793.9	669.0	654.9	739.5	556.1	519.9	515.8
62.5°	22102.3	19561.4	7235.8	1658.3	735.5	614.6	592.4	648.8	521.9	485.6	479.6
65°	21195.6	17798.3	6179.9	1533.4	703.2	566.2	534.0	532.0	485.6	451.4	443.3
67.5°	19529.2	15553.6	5077.7	1460.9	687.1	511.8	481.6	471.5	443.3	415.1	411.1
70°	17072.9	13026.8	4072.3	1430.6	679.0	455.4	431.2	419.1	394.9	372.8	370.8
72.5°	13282.7	10566.5	3361.0	1410.5	675.0	403.0	376.8	360.7	346.6	326.4	326.4
75°	9540.9	7773.8	2565.1	1271.5	624.6	346.6	318.4	308.3	288.1	272.0	276.1
77.5°	6014.7	5234.9	1688.6	935.0	483.6	278.1	253.9	247.8	231.7	209.6	223.7
80°	4062.2	3681.4	985.3	588.4	304.3	203.5	195.5	193.4	175.3	151.1	153.1
82.5°	2764.6	2712.2	511.8	334.5	175.3	118.9	114.9	118.9	98.7	80.6	80.6
85°	1080.0	1475.0	241.8	131.0	56.4	18.1	26.2	28.2	16.1	8.1	10.1
87.5°	20.1	151.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9817.0	9817.0	9817.0	9817.0	9817.0	9817.0	9817.0	9817.0	9817.0	9817.0	9817.0
2.5°	8184.8	8166.7	8196.9	8068.0	8094.2	8142.5	8166.7	8180.8	8380.3	8334.0	8460.9
5°	6385.5	6367.3	6484.2	6500.3	6560.8	6548.7	6607.1	6621.2	6693.8	6720.0	6897.3
7.5°	4644.5	4723.1	4856.1	4924.6	5027.4	5059.6	5029.4	5103.9	4952.8	5061.6	5093.9
10°	3731.7	3637.0	3580.6	3737.8	3757.9	3907.0	3846.6	3798.2	3886.9	3890.9	3975.6
12.5°	3107.1	2903.6	2768.6	2812.9	2861.3	2925.7	2935.8	3032.5	3097.0	3157.5	3207.8
15°	2436.1	2365.6	2242.7	2182.2	2250.7	2276.9	2339.4	2420.0	2488.5	2506.6	2575.1
17.5°	1869.9	1882.0	1861.8	1825.6	1867.9	1888.0	1892.1	1894.1	1912.2	1900.1	2000.9
20°	1505.2	1547.5	1597.9	1605.9	1620.0	1630.1	1612.0	1543.5	1545.5	1587.8	1620.0
22.5°	1362.1	1370.2	1426.6	1444.7	1489.1	1470.9	1418.5	1386.3	1382.3	1392.4	1408.5
25°	1249.3	1261.4	1301.7	1329.9	1364.1	1331.9	1293.6	1263.4	1259.4	1269.4	1285.6
27.5°	1148.5	1166.7	1202.9	1231.2	1263.4	1233.2	1196.9	1170.7	1168.7	1166.7	1176.7
30°	1067.9	1088.1	1114.3	1146.5	1168.7	1142.5	1108.2	1094.1	1092.1	1088.1	1092.1
32.5°	987.3	1019.6	1045.8	1061.9	1084.1	1063.9	1037.7	1029.7	1015.5	1003.5	997.4
35°	896.7	930.9	971.2	991.4	1013.5	993.4	975.2	941.0	916.8	914.8	918.8
37.5°	844.3	858.4	890.6	924.9	947.0	937.0	902.7	868.5	862.4	862.4	866.4
40°	797.9	804.0	818.1	862.4	902.7	872.5	830.2	820.1	820.1	818.1	820.1
42.5°	751.6	757.6	757.6	791.9	856.4	808.0	775.8	775.8	775.8	777.8	783.8
45°	709.3	711.3	709.3	733.5	793.9	753.6	731.4	737.5	741.5	745.5	749.6
47.5°	673.0	675.0	673.0	693.2	723.4	707.3	695.2	703.2	711.3	717.3	721.4
50°	640.8	638.7	642.8	654.9	669.0	673.0	664.9	677.0	681.1	689.1	699.2
52.5°	612.6	610.5	614.6	620.6	640.8	640.8	640.8	650.8	658.9	667.0	681.1
55°	580.3	582.3	588.4	596.4	622.6	618.6	620.6	628.7	636.7	648.8	656.9
57.5°	550.1	554.1	562.2	574.3	600.5	598.4	600.5	604.5	614.6	620.6	628.7
60°	515.8	523.9	534.0	542.0	568.2	566.2	576.3	584.3	590.4	590.4	594.4
62.5°	481.6	493.7	503.7	509.8	538.0	540.0	554.1	560.2	564.2	560.2	566.2
65°	447.3	465.5	469.5	477.5	505.8	507.8	523.9	538.0	534.0	529.9	540.0
67.5°	413.1	435.2	433.2	443.3	471.5	475.5	489.6	513.8	505.8	501.7	509.8
70°	374.8	390.9	392.9	399.0	437.3	431.2	453.4	475.5	469.5	471.5	471.5
72.5°	332.5	346.6	346.6	358.7	399.0	388.9	407.0	431.2	431.2	429.2	429.2
75°	282.1	290.2	298.2	316.4	358.7	346.6	358.7	380.8	384.9	380.8	380.8
77.5°	227.7	239.8	243.8	268.0	298.2	296.2	308.3	318.4	326.4	322.4	322.4
80°	161.2	173.3	189.4	215.6	233.7	239.8	245.8	253.9	257.9	257.9	261.9
82.5°	90.7	108.8	122.9	149.1	157.2	187.4	185.4	191.4	185.4	163.2	181.3
85°	20.1	38.3	54.4	68.5	78.6	108.8	114.9	129.0	106.8	98.7	98.7
87.5°	0.0	0.0	0.0	0.0	0.0	16.1	32.2	44.3	38.3	32.2	32.2
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°	9817.0	9817.0	9817.0	9817.0	9817.0	9817.0	9817.0	9817.0	9817.0	9817.0
2.5°	8567.7	8743.0	8954.6	9319.3	9575.2	9851.2	10129.3	10425.5	10504.1	10584.7
5°	6945.6	7290.2	7477.6	7967.2	8481.0	9133.9	9667.9	10252.2	10496.0	10552.4
7.5°	5261.1	5494.8	5986.5	6482.2	7118.9	7804.0	8622.1	9532.9	9817.0	9935.9
10°	4171.0	4489.4	4920.6	5452.5	6010.7	6748.2	7671.0	8734.9	9137.9	9204.4
12.5°	3550.4	3905.0	4374.5	4936.7	5464.6	6020.8	6951.7	8049.8	8481.0	8624.1
15°	2839.1	3268.3	3810.3	4402.7	4977.0	5585.5	6528.5	7767.7	8265.4	8432.7
17.5°	2230.6	2577.2	3163.5	3806.3	4487.4	5257.1	6439.9	7902.7	8515.3	8670.5
20°	1706.7	1954.5	2448.2	3127.2	3925.2	4932.7	6462.0	8412.5	9146.0	9357.6
22.5°	1475.0	1601.9	1902.1	2548.9	3441.6	4650.6	6552.7	9111.7	9996.3	10348.9
25°	1335.9	1402.4	1571.7	1994.8	2980.2	4376.5	6760.3	10052.7	11185.1	11418.9
27.5°	1217.0	1265.4	1370.2	1674.4	2561.0	4122.6	7002.1	11096.5	12295.4	12644.0
30°	1104.2	1168.7	1267.4	1487.1	2293.0	3890.9	7306.3	11942.8	13230.4	13554.8
32.5°	1017.6	1082.0	1172.7	1356.1	2065.4	3647.1	7487.7	12686.3	13994.0	14270.1
35°	947.0	1001.4	1096.1	1251.3	1892.1	3461.7	7451.4	13276.7	14733.5	15015.6
37.5°	896.7	943.0	1037.7	1152.6	1761.1	3268.3	7433.3	14056.5	15634.2	15960.6
40°	850.3	898.7	985.3	1088.1	1630.1	3040.6	7443.3	14830.2	16593.3	16919.8
42.5°	814.1	868.5	939.0	1070.0	1495.1	2857.2	7443.3	15503.2	17427.6	17741.9
45°	783.8	842.3	910.8	1067.9	1388.3	2718.2	7393.0	16081.5	18092.5	18360.5
47.5°	757.6	822.1	920.8	1031.7	1362.1	2617.5	7348.6	16545.0	18634.5	18886.4
50°	739.5	816.1	979.3	989.4	1370.2	2587.2	7562.2	17129.3	19112.1	19329.7
52.5°	725.4	818.1	977.3	926.9	1356.1	2607.4	8007.5	18042.1	19775.0	19791.1
55°	697.2	816.1	926.9	856.4	1297.6	2641.6	8579.8	19368.0	20812.7	20824.8
57.5°	669.0	793.9	860.4	795.9	1178.8	2641.6	9268.9	20623.3	22064.0	22074.1
60°	640.8	826.1	755.6	743.5	1023.6	2593.3	9996.3	21175.4	22456.9	22559.7
62.5°	612.6	832.2	675.0	697.2	910.8	2476.4	10538.3	20564.9	21925.0	22072.1
65°	580.3	671.0	622.6	648.8	852.3	2281.0	10367.1	19446.6	20925.6	21100.9
67.5°	542.0	568.2	566.2	598.4	832.2	1992.8	9464.4	18032.0	19849.6	19839.5
70°	495.7	509.8	515.8	550.1	793.9	1769.2	7886.6	16196.4	18412.9	18638.6
72.5°	447.3	459.4	465.5	495.7	755.6	1642.2	6121.5	13667.6	15948.6	16301.2
75°	394.9	403.0	411.1	437.3	715.3	1454.8	4360.4	10433.6	12214.8	12768.9
77.5°	340.5	340.5	350.6	376.8	602.5	1200.9	2925.7	7318.4	8275.5	8841.7
80°	276.1	278.1	274.0	302.2	443.3	822.1	1662.4	4888.3	5506.9	5615.7
82.5°	211.6	205.5	207.5	221.6	330.5	560.2	886.6	3036.6	3095.0	3034.6
85°	133.0	133.0	129.0	145.1	211.6	292.2	483.6	1859.8	1452.8	1382.3
87.5°	54.4	44.3	50.4	58.4	100.7	118.9	189.4	382.8	147.1	135.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)