

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: P298887

Luminaire Tested: **GLNA-AF-06-LED-E1-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-06-LED-E1-SLL-8030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Left OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25448.7 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 333
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: 25 FT

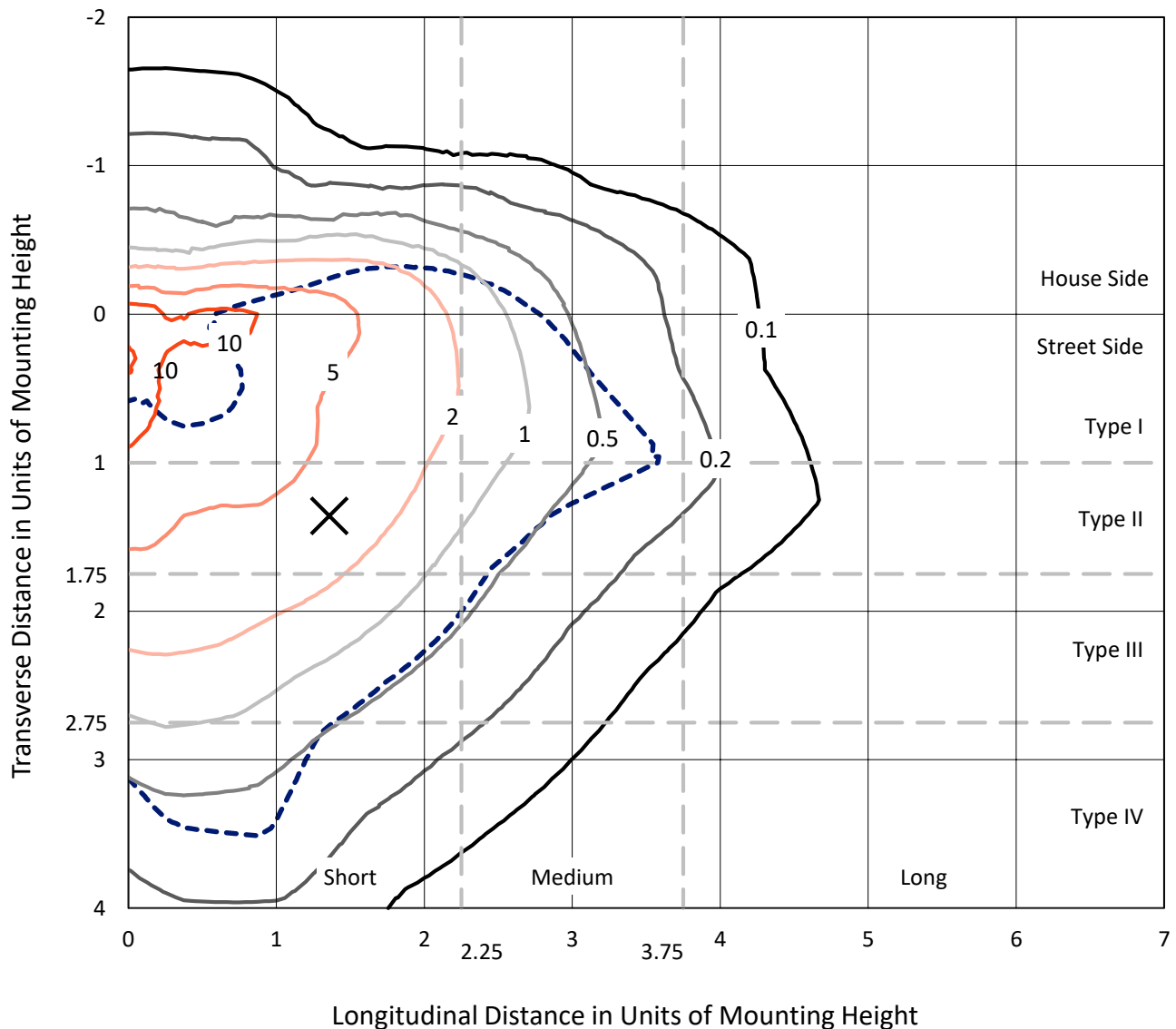


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

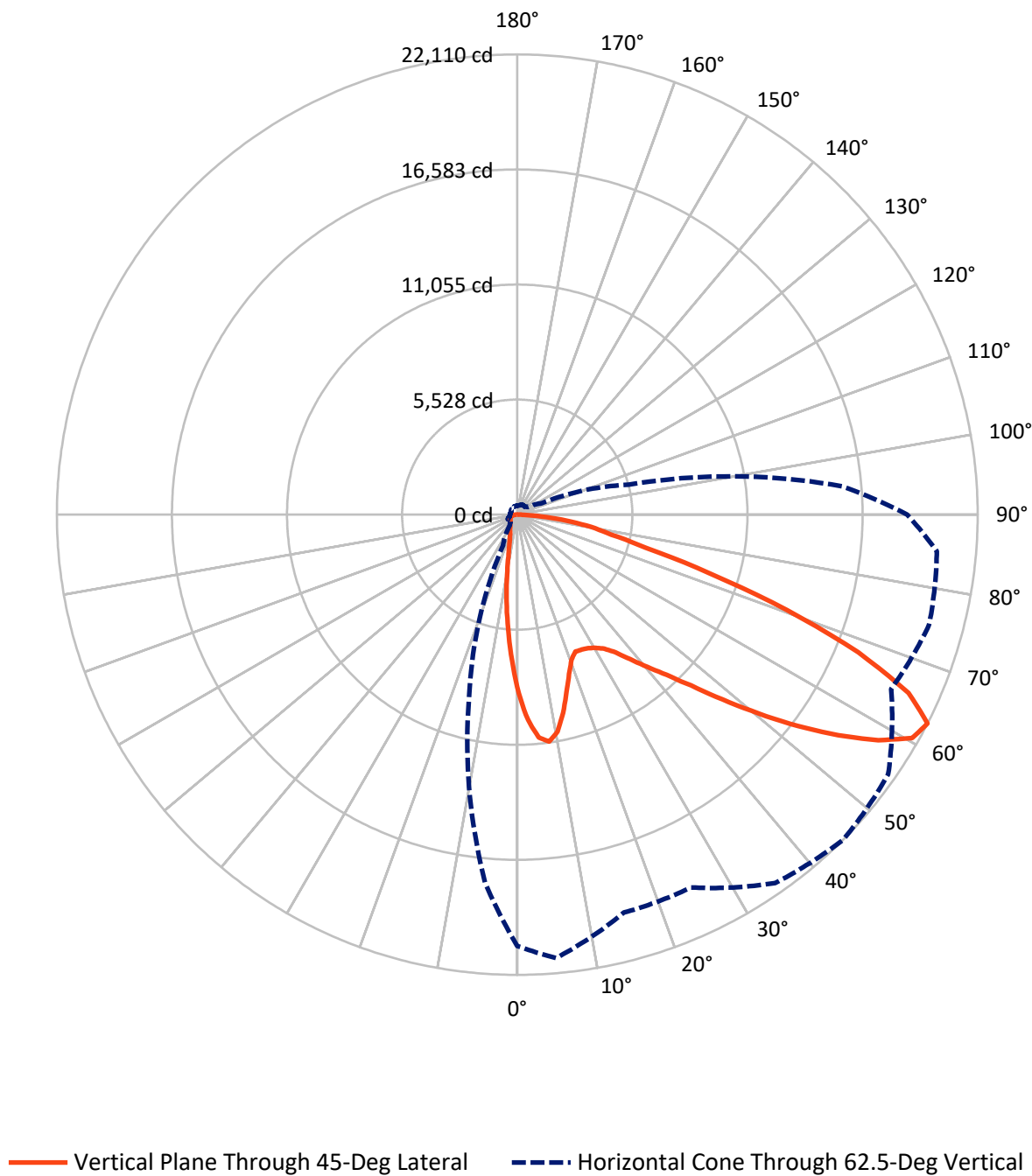


Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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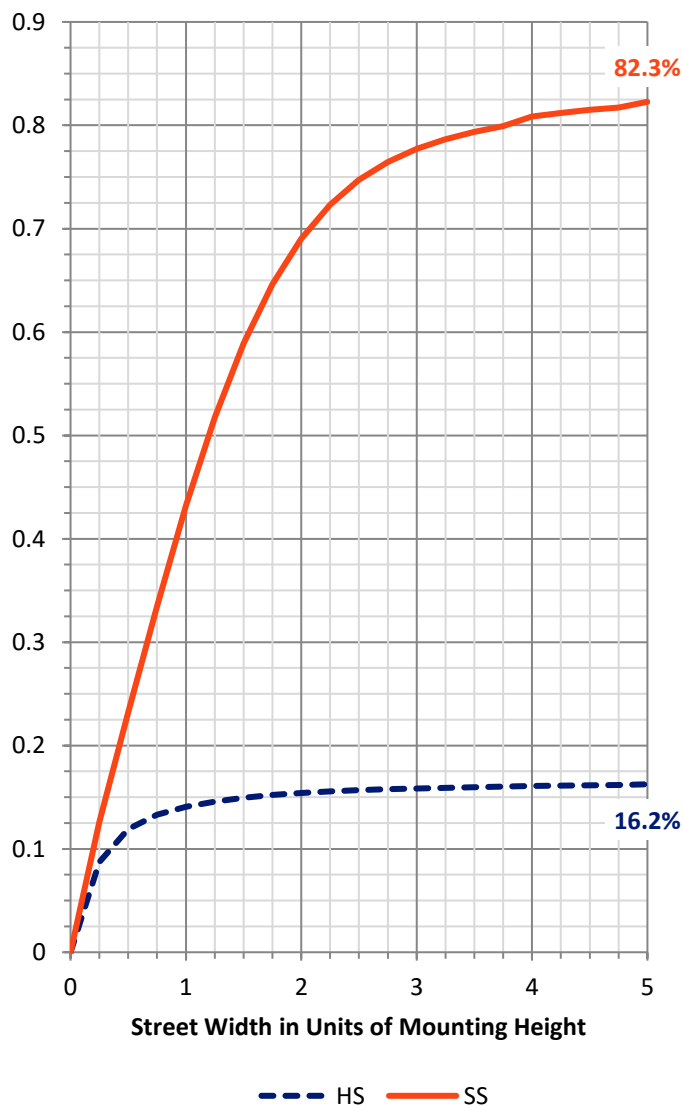
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4211.4	0.0	4211.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	21237.3	0.0	21237.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	25448.7	0.0	25448.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.9	2.5
10°-20°	1147.7	4.5
20°-30°	1673.4	6.6
30°-40°	2577.2	10.1
40°-50°	3793.0	14.9
50°-60°	5563.5	21.9
60°-70°	6219.2	24.4
70°-80°	3044.8	12.0
80°-90°	803.9	3.2
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°	25448.7	100.0
0°-180°	25448.7	100.0

Coefficient of Utilization



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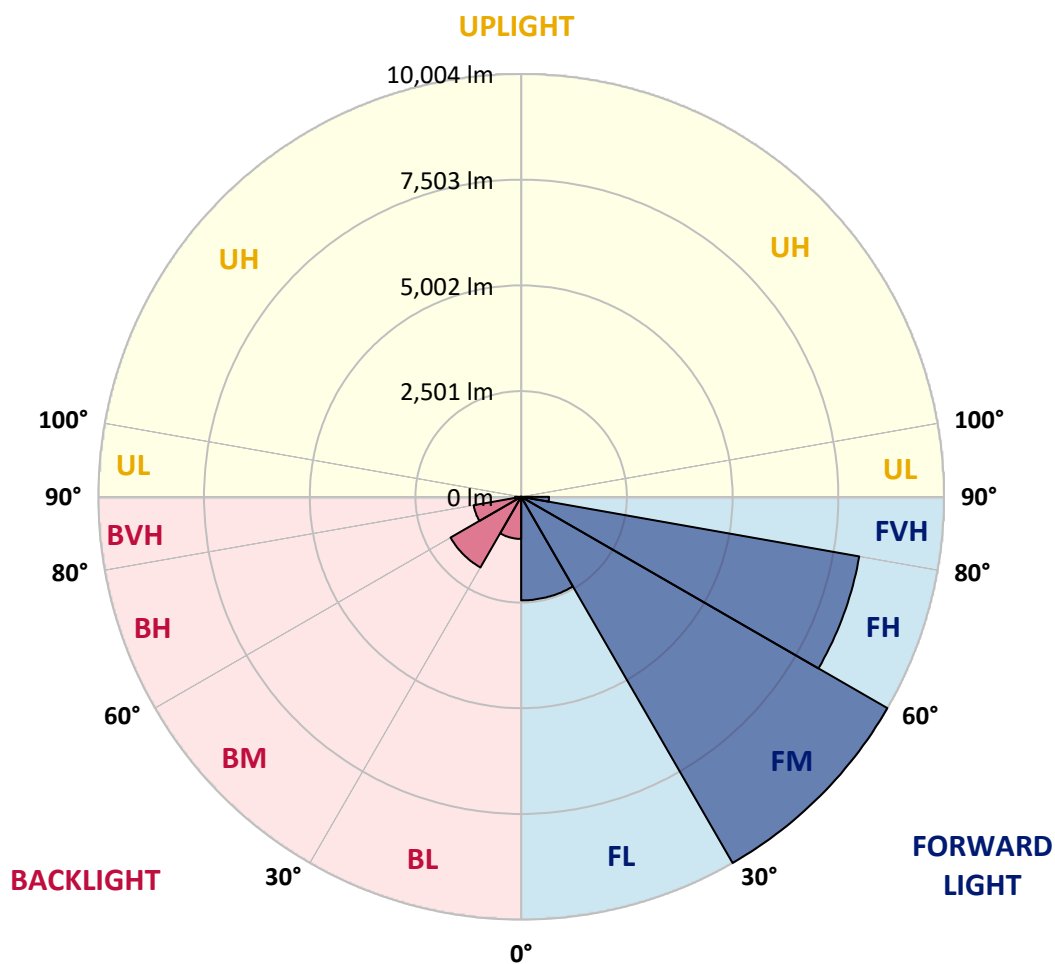
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2450.6	9.6			
FM	(30°-60°)	10004.1	39.3			
FH	(60°-80°)	8122.3	31.9			G4/12000
FVH	(80°-90°)	660.2	2.6			G4/750
BL	(0°-30°)	996.4	3.9	B2/1000		
BM	(30°-60°)	1929.6	7.6	B2/2500		
BH	(60°-80°)	1141.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	143.7	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8598.2	8598.2	8598.2	8598.2	8598.2	8598.2	8598.2	8598.2	8598.2	8598.2	8598.2
2.5°	8933.4	9076.4	9354.8	9562.8	9816.7	9875.3	9956.6	9876.6	9735.4	9547.8	9486.5
5°	8400.7	8705.9	9381.2	9976.1	10504.7	10750.8	10819.9	10616.4	10206.8	9668.2	9339.4
7.5°	7546.0	7979.7	8894.3	9770.4	10549.2	11009.7	10998.3	10527.0	9773.1	8895.7	8368.4
10°	6808.5	7303.9	8353.4	9332.6	10159.1	10605.5	10432.9	9830.8	8930.7	7920.6	7348.9
12.5°	6396.1	6881.6	7946.1	8929.3	9620.5	9774.4	9642.7	9052.4	8204.5	7183.6	6682.7
15°	6324.3	6858.0	7783.9	8584.1	8971.5	8837.6	8680.4	8416.1	7817.1	6945.6	6423.8
17.5°	6634.1	7221.3	7970.1	8343.4	8277.6	8043.7	7999.2	8028.7	7884.8	7209.9	6608.6
20°	7227.2	7932.0	8413.4	8230.4	7750.3	7428.4	7439.7	7888.9	8315.3	7880.2	7193.1
22.5°	8059.2	8863.9	9052.4	8290.3	7527.8	7145.9	7238.5	7966.1	9002.4	8859.8	7982.4
25°	9136.4	9869.8	9734.0	8508.3	7550.1	7180.9	7254.9	8231.7	9813.5	9838.9	8959.3
27.5°	10180.0	10860.3	10305.8	8798.0	7642.7	7263.5	7361.6	8649.5	10588.7	10902.1	10075.5
30°	10994.3	11467.5	10532.4	9062.4	7824.4	7424.3	7546.0	9046.9	10941.6	11619.6	10934.3
32.5°	11668.7	12008.4	10893.4	9389.8	8158.6	7677.2	7891.6	9529.7	11449.3	12302.6	11774.9
35°	12530.2	12626.9	11342.6	9754.9	8675.0	8118.2	8383.9	10002.4	11933.4	12992.0	12603.3
37.5°	13540.6	13416.2	11766.3	10254.5	9342.6	8807.6	9027.4	10521.5	12331.7	13774.0	13449.3
40°	14539.3	14239.5	12298.5	11029.2	10316.2	9620.5	9880.7	11075.6	12704.1	14557.4	14276.3
42.5°	15388.5	14944.8	12822.6	11881.2	11222.2	10517.4	10828.0	11633.7	13059.2	15225.9	14993.9
45°	16016.6	15465.3	13322.2	12699.6	12471.6	11709.1	11856.2	12272.7	13443.9	15784.5	15584.2
47.5°	16577.5	15988.4	13887.1	13525.2	13564.2	13259.1	13022.4	13017.0	13897.6	16240.5	16142.4
50°	17328.6	16714.6	14494.3	14375.3	15203.7	15000.7	14478.9	13885.8	14470.7	16758.2	16746.8
52.5°	18364.0	17864.9	15235.9	15291.8	16734.6	16867.2	16220.5	14929.8	15368.5	17707.8	17641.0
55°	19588.4	19296.8	16246.4	16345.4	18611.5	18706.9	18064.3	16234.6	16689.6	19083.4	18897.2
57.5°	20543.4	20482.1	17354.0	17610.2	20013.5	20441.7	19851.3	17746.0	18177.8	20241.4	19774.1
60°	20924.0	21221.9	18533.4	18885.8	21310.5	21784.2	21266.9	19072.9	19497.1	20721.5	19714.2
62.5°	20718.7	21384.1	19789.6	19760.1	21599.8	22110.2	21746.5	19811.8	20475.3	20226.0	18716.9
65°	19768.7	20800.9	20518.5	19534.8	20609.3	20651.1	20533.5	19481.7	20706.0	18660.6	16788.6
67.5°	17699.2	19185.1	19558.4	17604.7	17937.1	17664.7	17467.1	17674.2	19502.6	16314.5	14109.7
70°	14416.2	16651.9	16830.4	14080.6	13929.4	13745.9	13353.1	14490.2	17128.8	13371.2	11195.9
72.5°	10600.1	12950.2	13499.7	10327.1	9627.8	9665.0	9354.8	10919.8	13926.6	9932.5	8358.9
75°	7252.2	9377.1	10562.4	7205.8	6367.0	6382.0	6342.5	7737.6	11092.4	6909.3	6254.9
77.5°	5298.0	6699.5	7966.1	4844.3	4703.1	4616.3	4595.4	5413.8	8504.2	5016.9	4857.0
80°	4251.2	4949.7	5350.7	3357.5	3610.4	3603.6	3487.3	3722.6	5553.7	3669.4	3632.7
82.5°	2949.2	3803.9	4335.2	2631.3	2436.9	2396.0	2424.7	2772.5	3925.6	2508.2	2385.1
85°	1555.9	2526.4	4293.4	2332.0	1446.4	1154.0	1435.5	2270.2	3401.0	1329.3	1163.5
87.5°	198.9	730.3	2842.5	930.5	570.9	307.5	681.7	1278.4	2184.0	271.1	236.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	8598.2	8598.2	8598.2	8598.2	8598.2	8598.2	8598.2	8598.2	8598.2	8598.2	8598.2
2.5°	9328.5	9142.3	8898.9	8673.2	8439.7	8207.2	7903.8	7713.6	7582.3	7556.9	7501.5
5°	9101.9	8483.3	8016.0	7611.8	7245.3	6727.2	6440.6	6202.6	6075.5	6063.2	6032.3
7.5°	8056.4	7203.1	6572.3	6000.1	5481.0	5062.7	4600.9	4386.1	4297.5	4318.4	4339.3
10°	6969.2	6015.5	5290.7	4705.8	4248.5	3896.1	3525.5	3275.3	3101.3	3066.3	3059.5
12.5°	6174.9	5128.6	4425.1	4011.9	3658.5	3326.6	2933.7	2638.1	2413.3	2336.1	2284.8
15°	5838.9	4694.9	3957.8	3512.8	3122.2	2701.2	2336.1	2026.8	1820.2	1753.0	1715.3
17.5°	5910.6	4574.5	3635.8	3066.3	2567.3	2127.6	1667.6	1402.8	1278.4	1246.6	1246.6
20°	6285.7	4552.3	3369.7	2655.4	2032.3	1523.2	1145.8	994.6	954.1	950.1	961.0
22.5°	6811.6	4630.9	3171.7	2298.9	1579.5	1112.2	892.4	836.5	818.4	822.9	835.2
25°	7595.0	4895.2	3027.7	1981.0	1239.3	910.5	795.7	762.5	753.9	765.2	780.7
27.5°	8523.7	5159.5	2937.8	1741.6	1046.3	832.4	756.6	722.1	727.5	741.6	755.2
30°	9339.4	5376.6	2796.6	1571.3	986.4	836.5	756.6	709.4	703.9	706.6	710.7
32.5°	10071.4	5523.2	2631.3	1408.7	850.6	743.0	706.6	699.8	668.5	657.1	659.0
35°	10702.2	5523.2	2532.3	1313.8	762.5	659.0	600.4	565.4	549.5	550.9	566.8
37.5°	11310.8	5412.4	2483.2	1260.2	714.8	626.7	574.9	544.1	523.2	519.1	521.8
40°	11847.6	5251.7	2427.4	1238.0	678.5	607.2	558.6	532.7	510.5	503.6	505.0
42.5°	12278.6	5121.3	2365.6	1208.9	655.8	593.1	546.8	524.5	499.6	492.3	490.9
45°	12744.5	5078.2	2284.8	1149.9	667.1	594.5	544.1	520.4	495.0	486.8	484.1
47.5°	13358.5	5214.0	2200.8	1079.9	691.2	601.7	548.1	520.4	493.6	486.8	484.1
50°	14131.9	5532.8	2094.0	977.8	667.1	621.3	546.8	515.9	493.6	486.8	481.4
52.5°	15125.6	5963.8	1954.6	860.6	653.1	668.5	544.1	507.7	486.8	477.3	467.3
55°	16332.7	6316.2	1787.5	763.9	621.3	655.8	540.0	498.2	475.9	461.9	453.2
57.5°	17216.9	6443.3	1574.0	701.2	576.3	634.9	534.1	485.5	461.9	450.5	439.6
60°	17042.0	6197.2	1393.3	661.7	549.5	573.6	530.0	474.1	449.1	441.0	430.5
62.5°	15641.9	5553.7	1277.0	643.5	532.7	523.2	534.1	463.2	438.2	429.2	426.4
65°	13542.0	4603.6	1231.2	639.4	519.1	493.6	496.8	450.5	425.1	418.3	415.5
67.5°	11170.5	3715.8	1190.8	653.1	500.9	472.8	459.1	433.7	412.4	405.5	400.1
70°	8808.9	3090.4	1172.1	644.9	478.7	451.9	436.9	415.5	397.4	390.1	386.0
72.5°	7093.7	2610.4	1162.1	636.2	449.1	423.7	409.6	391.5	371.9	369.2	365.1
75°	6003.3	2052.3	1065.0	609.9	415.5	390.1	380.6	363.8	344.2	344.2	341.5
77.5°	4630.9	1484.1	885.6	540.0	380.6	352.4	344.2	331.5	309.3	313.4	312.0
80°	3420.6	968.2	692.6	447.8	337.4	310.6	306.1	293.8	269.8	275.7	275.7
82.5°	2343.4	634.9	498.2	366.5	287.9	262.9	262.9	250.2	223.9	226.6	235.2
85°	1176.7	436.9	371.9	283.8	223.9	211.2	211.2	201.6	174.8	176.2	187.6
87.5°	358.3	262.9	246.1	203.0	160.8	158.0	150.8	144.0	127.2	125.8	133.1
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	8598.2	8598.2	8598.2	8598.2	8598.2	8598.2	8598.2	8598.2	8598.2	8598.2	8598.2
2.5°	7415.6	7335.7	7239.9	7026.9	6955.6	6951.1	7016.0	6948.3	7077.3	7022.8	7082.8
5°	5980.1	5902.4	5794.4	5523.2	5357.9	5245.8	5193.1	5036.4	5149.5	5066.8	5135.9
7.5°	4398.3	4416.5	4345.2	4185.8	3826.1	3645.8	3539.6	3444.2	3526.8	3518.2	3649.9
10°	3091.8	3140.4	3090.4	2929.7	2638.1	2539.1	2558.6	2596.3	2704.4	2759.8	2962.8
12.5°	2225.7	2223.0	2190.8	2046.8	1855.2	1866.1	1946.0	2011.4	2110.8	2169.9	2376.5
15°	1661.7	1636.7	1622.6	1505.0	1396.0	1420.1	1459.1	1466.0	1529.1	1564.1	1732.1
17.5°	1256.1	1268.9	1283.9	1200.3	1117.6	1102.2	1071.8	1033.6	1052.2	1059.1	1142.6
20°	997.3	1047.7	1085.8	1026.8	943.2	897.8	858.8	833.8	833.8	832.4	856.1
22.5°	871.5	907.8	948.7	907.8	832.4	792.9	770.7	751.1	748.4	748.4	770.7
25°	803.4	829.7	868.8	841.1	784.8	755.2	734.3	709.4	699.8	696.6	712.1
27.5°	769.3	780.7	800.2	774.8	727.5	713.5	708.0	685.8	672.6	665.8	681.7
30°	712.1	709.4	710.7	685.8	647.6	646.2	655.8	660.3	655.8	654.4	678.5
32.5°	659.0	653.1	651.7	629.4	594.5	586.3	594.5	603.1	612.6	626.7	654.4
35°	591.7	605.8	614.0	594.5	552.2	527.3	517.7	502.3	493.6	493.6	525.9
37.5°	538.6	570.9	583.6	565.4	519.1	484.1	467.3	464.6	465.9	471.4	502.3
40°	520.4	544.1	555.0	537.2	490.9	459.1	449.1	446.4	449.1	457.8	488.2
42.5°	509.1	525.9	524.5	502.3	464.6	442.3	436.9	433.7	436.9	445.1	478.7
45°	499.6	510.5	499.6	472.8	438.2	426.4	427.8	426.4	429.2	438.2	470.0
47.5°	490.9	495.0	481.4	454.6	418.3	415.5	421.0	425.1	427.8	435.5	468.7
50°	478.7	478.7	465.9	438.2	401.5	402.8	409.6	419.6	421.0	429.2	456.4
52.5°	463.2	461.9	453.2	426.4	387.4	391.5	391.5	402.8	405.5	415.5	443.7
55°	450.5	447.8	443.7	418.3	375.1	381.9	377.8	381.9	388.7	398.7	429.2
57.5°	439.6	433.7	433.7	411.0	365.1	367.9	358.3	363.8	371.9	380.6	412.4
60°	427.8	422.3	425.1	401.5	349.7	347.0	342.9	353.8	357.0	366.5	398.7
62.5°	415.5	411.0	412.4	390.1	338.8	331.5	331.5	341.5	342.9	357.0	387.4
65°	405.5	400.1	398.7	379.2	326.1	317.9	322.0	326.1	328.8	342.9	371.9
67.5°	396.0	384.7	384.7	369.2	312.0	303.4	312.0	310.6	315.2	327.4	351.0
70°	383.3	367.9	369.2	362.4	297.9	287.9	295.2	293.8	296.6	304.7	328.8
72.5°	363.8	351.0	353.8	351.0	283.8	269.8	272.5	272.5	272.5	279.7	304.7
75°	338.8	328.8	337.4	344.2	267.0	247.5	250.2	250.2	246.1	250.2	281.1
77.5°	307.5	302.0	330.2	320.6	247.5	223.9	223.9	221.2	213.0	218.4	251.6
80°	274.3	269.8	304.7	268.4	225.3	194.8	191.6	184.4	176.2	180.3	214.4
82.5°	239.3	235.2	256.1	205.7	194.8	160.8	154.0	141.2	133.1	137.2	167.6
85°	196.2	196.2	197.6	155.3	148.0	123.1	114.9	98.1	88.1	90.8	120.3
87.5°	139.9	144.0	133.1	106.3	88.1	68.6	63.1	53.1	44.5	51.8	63.1
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8598.2	8598.2	8598.2	8598.2	8598.2	8598.2	8598.2	8598.2
2.5°	7390.7	7544.6	7719.5	7942.9	8135.0	8449.3	8751.7	8933.4
5°	5526.0	5782.1	6100.5	6511.0	6892.9	7466.1	8035.5	8400.7
7.5°	3954.6	4228.9	4573.2	5085.0	5625.4	6356.6	7109.6	7546.0
10°	3272.5	3553.6	3842.9	4188.5	4630.9	5426.5	6316.2	6808.5
12.5°	2707.1	3007.8	3319.8	3683.5	4093.2	4803.9	5829.3	6396.1
15°	2071.8	2407.4	2775.2	3235.7	3748.9	4570.5	5709.0	6324.3
17.5°	1420.1	1795.2	2246.6	2814.8	3442.8	4494.6	5924.7	6634.1
20°	977.8	1250.7	1733.5	2399.2	3154.9	4485.1	6338.4	7227.2
22.5°	818.4	940.1	1292.5	2017.3	2937.8	4605.4	6981.0	8059.2
25°	756.6	829.7	1032.3	1685.8	2779.8	4882.5	7865.2	9136.4
27.5°	720.7	786.1	937.3	1469.1	2655.4	5204.0	8725.4	10180.0
30°	734.3	801.6	910.5	1358.3	2486.0	5472.4	9489.2	10994.3
32.5°	661.7	691.2	780.7	1260.2	2364.2	5697.6	10157.7	11668.7
35°	564.0	615.4	696.6	1214.4	2367.0	5848.9	10886.6	12530.2
37.5°	537.2	589.0	647.6	1197.6	2399.2	6010.1	11723.2	13540.6
40°	520.4	568.1	618.5	1188.0	2430.1	6156.8	12543.3	14539.3
42.5°	509.1	552.2	615.4	1154.0	2445.5	6288.5	13217.3	15388.5
45°	507.7	552.2	626.7	1120.4	2469.2	6429.7	13782.7	16016.6
47.5°	509.1	570.9	605.8	1079.9	2469.2	6665.9	14445.7	16577.5
50°	503.6	601.7	583.6	1022.7	2411.9	7113.6	15354.9	17328.6
52.5°	500.9	597.6	540.0	934.6	2312.5	7824.4	16520.2	18364.0
55°	493.6	576.3	509.1	803.4	2196.7	8599.6	17768.2	19588.4
57.5°	486.8	510.5	492.3	688.5	2017.3	9145.0	18627.0	20543.4
60°	545.4	446.4	478.7	632.2	1778.0	9294.4	18593.8	20924.0
62.5°	505.0	418.3	460.5	619.9	1610.4	8874.8	17734.6	20718.7
65°	396.0	400.1	442.3	655.8	1565.4	7763.1	16212.3	19768.7
67.5°	362.4	381.9	423.7	702.6	1570.0	6215.4	13938.0	17699.2
70°	341.5	362.4	402.8	726.2	1580.9	4633.6	11019.2	14416.2
72.5°	317.9	336.1	379.2	730.3	1507.7	3365.6	8493.3	10600.1
75°	289.3	306.1	345.6	636.2	1249.3	2334.7	6496.9	7252.2
77.5°	257.5	269.8	303.4	490.9	927.8	1494.1	4876.5	5298.0
80°	219.8	226.6	254.8	359.7	634.9	934.6	3858.4	4251.2
82.5°	176.2	178.9	197.6	269.8	412.4	600.4	2584.1	2949.2
85°	124.4	124.4	135.8	196.2	281.1	380.6	1402.8	1555.9
87.5°	58.6	59.9	59.9	107.6	146.7	193.5	323.3	198.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)