

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: P531513

Luminaire Tested: **GALN-SA6D-740-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-740-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25360 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

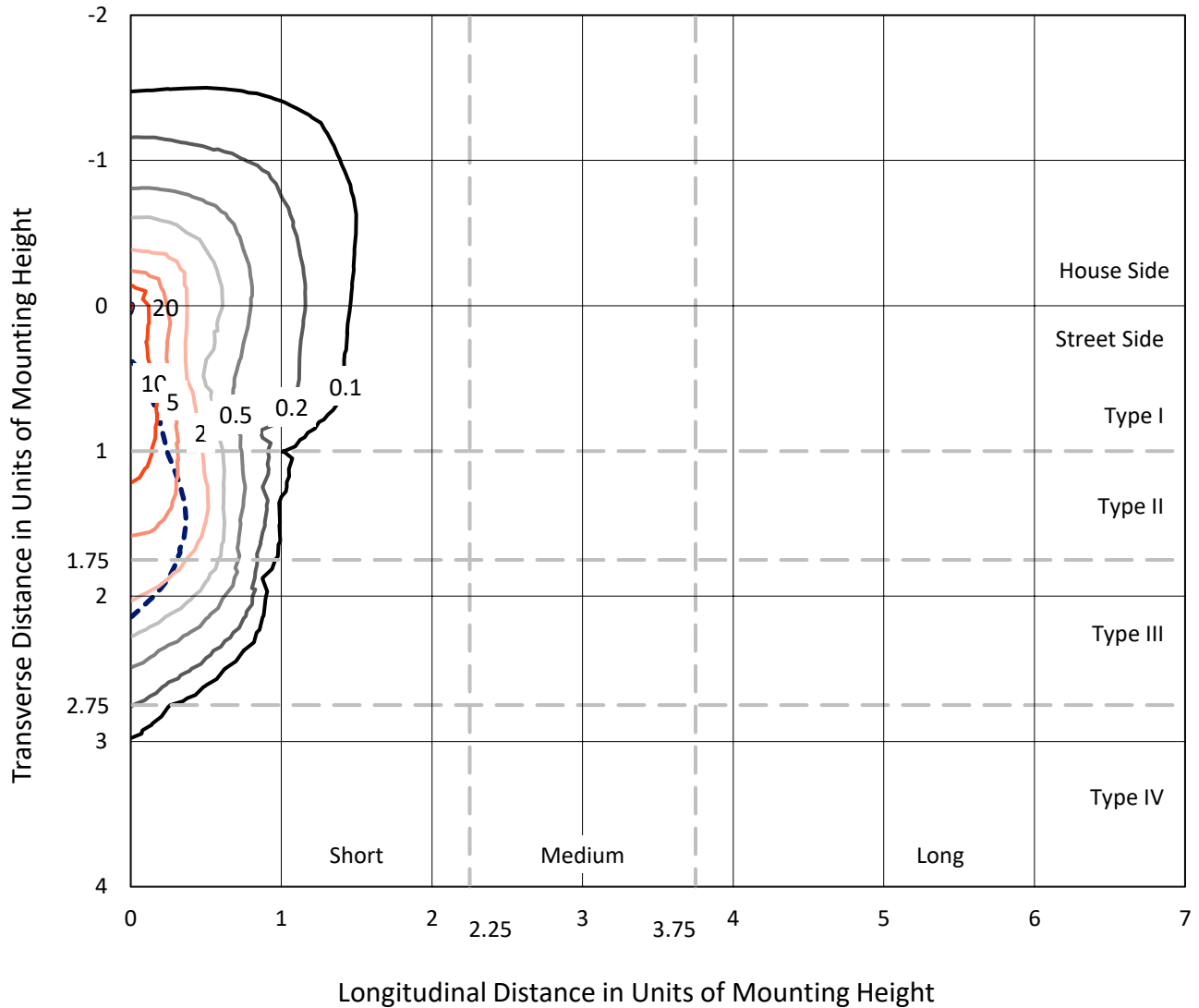
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

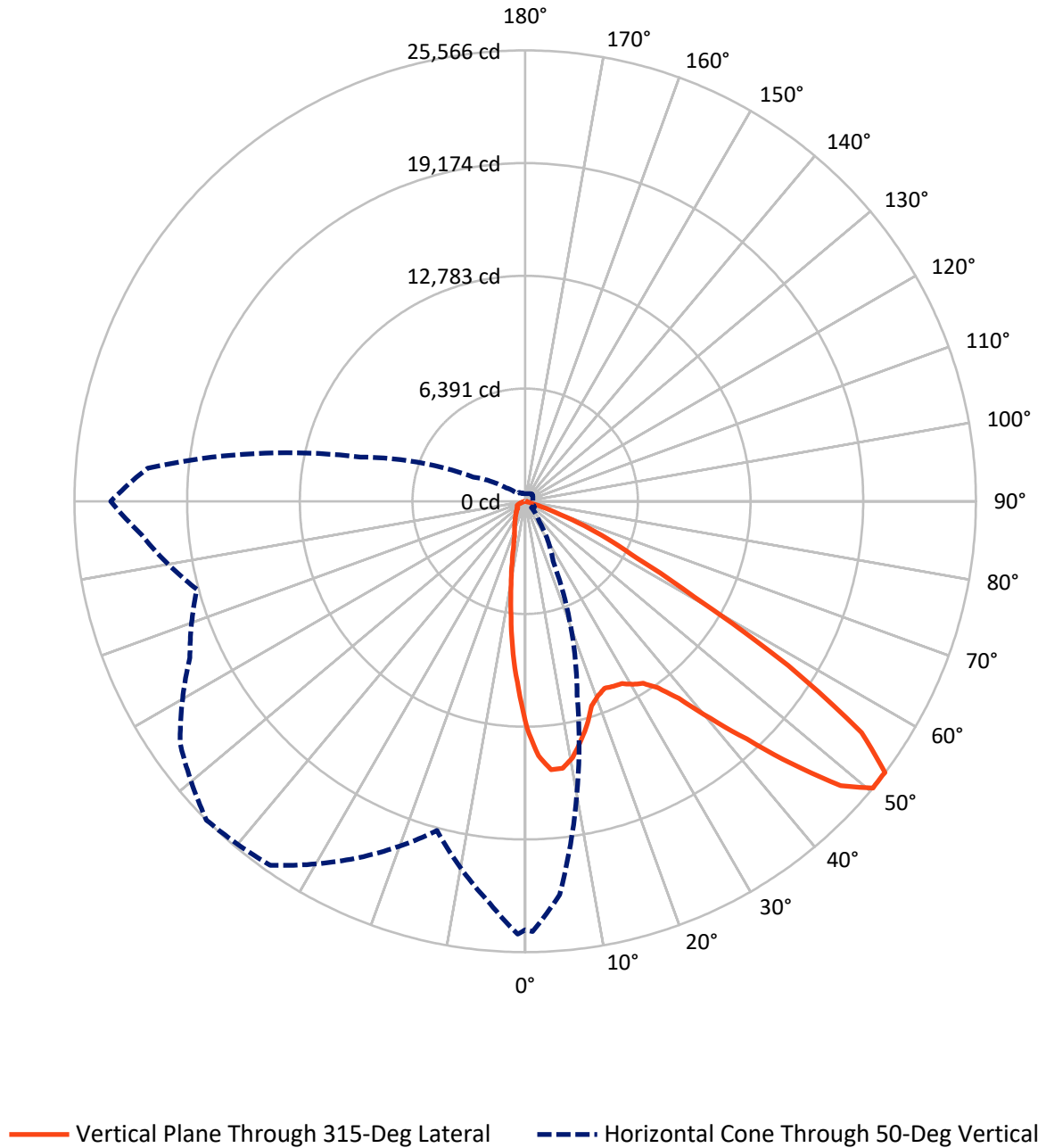
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5079.6	0.0	5079.6
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	20280.4	0.0	20280.4
	% Fixture	80.0	0.0	80.0
Total	Lumens	25360.0	0.0	25360.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	937.4	3.7
10°-20°	1863.1	7.3
20°-30°	2798.9	11.0
30°-40°	4201.0	16.6
40°-50°	5904.3	23.3
50°-60°	6368.8	25.1
60°-70°	2957.0	11.7
70°-80°	278.2	1.1
80°-90°	51.3	0.2
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°	25360.0	100.0
0°-180°	25360.0	100.0

Coefficient of Utilization



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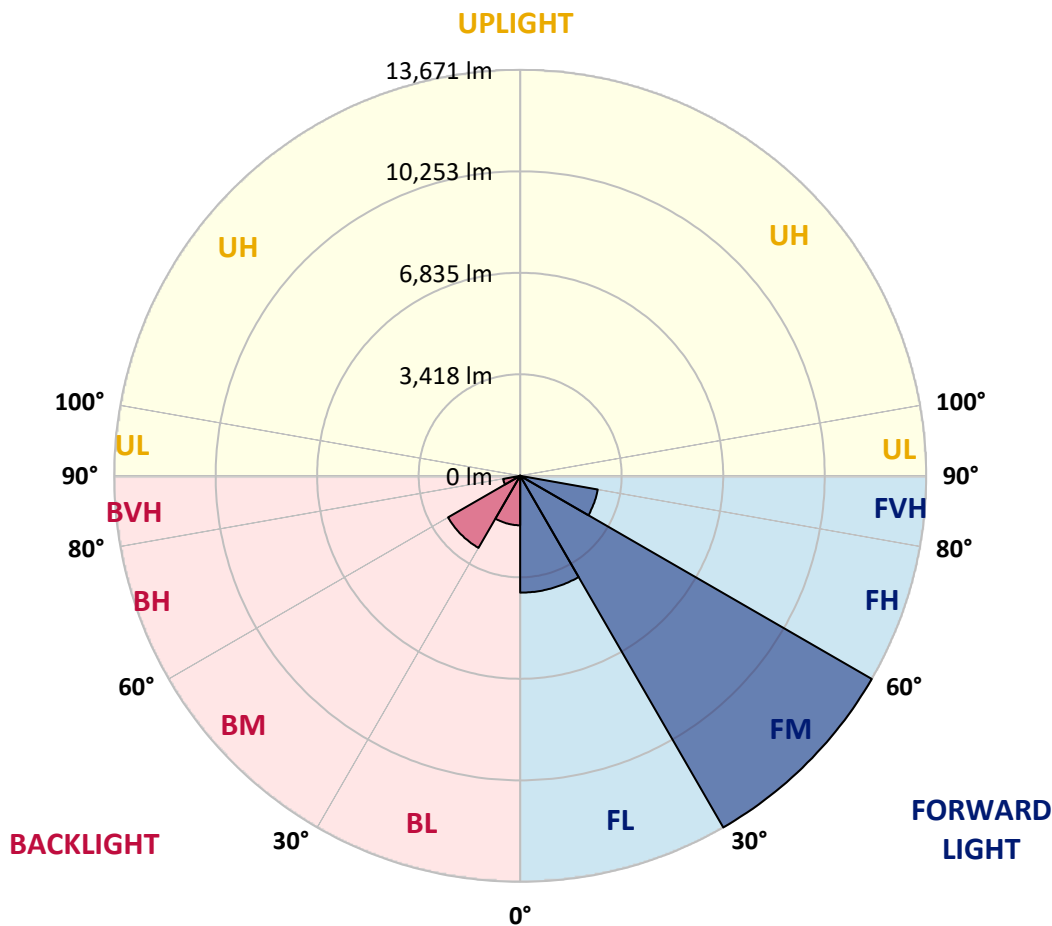
CATALOG NUMBER: GALN-SA6D-740-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3934.4	15.5			
FM (30°-60°)	13670.9	53.9			
FH (60°-80°)	2652.0	10.5			G2/5000
FVH (80°-90°)	23.1	0.1			G1/100
BL (0°-30°)	1665.0	6.6	B3/2500		
BM (30°-60°)	2803.2	11.1	B3/5000		
BH (60°-80°)	583.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	28.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12860.7	12860.7	12860.7	12860.7	12860.7	12860.7	12860.7	12860.7	12860.7	12860.7	12860.7
2.5°	13368.9	13162.6	12901.0	12684.6	12362.6	11713.5	11537.4	11326.1	11150.0	10913.5	10581.4
5°	12156.3	12090.9	11970.1	11155.0	10566.3	9781.4	9137.3	8865.6	8508.4	8216.6	8005.2
7.5°	11230.5	10968.8	10586.4	9766.3	8825.4	7985.1	7270.6	6853.0	6380.0	6219.0	5932.2
10°	10239.3	10299.6	9736.1	8583.9	7446.7	6767.5	6324.7	5922.2	5494.5	5212.7	4805.2
12.5°	9922.3	9726.0	9293.3	7869.4	6898.3	6264.3	5725.9	5227.8	4775.0	4322.1	3929.7
15°	10128.6	9826.7	9222.9	7718.4	6475.6	5685.7	5011.5	4337.2	3919.6	3341.0	2933.4
17.5°	10868.2	10626.7	9816.6	7879.5	6259.3	5132.2	4130.9	3436.6	2797.6	2274.3	2068.0
20°	12100.9	11758.8	10742.4	8085.7	5937.3	4463.0	3351.0	2495.7	1891.9	1670.5	1554.8
22.5°	13308.5	13122.4	11839.3	8483.2	5650.5	3869.3	2515.8	1680.5	1413.9	1373.6	1298.1
25°	15608.0	15049.5	13514.8	9202.8	5429.1	3310.8	1896.9	1353.5	1197.5	1167.3	1177.4
27.5°	16976.5	16508.6	15064.5	9680.8	5182.5	2883.1	1605.1	1242.8	1137.1	1071.7	1046.6
30°	18289.8	17746.4	15834.4	9962.5	4654.2	2430.3	1423.9	1192.5	1167.3	1071.7	1041.5
32.5°	19301.1	18767.8	16946.4	10385.2	4437.9	2138.4	1172.4	930.8	865.4	855.4	945.9
35°	20850.9	20282.3	17897.3	10616.6	4271.8	1987.5	1016.4	830.2	754.7	724.5	729.6
37.5°	22294.9	21907.5	18777.9	10707.2	4095.7	1942.2	910.7	744.7	679.3	659.1	654.1
40°	23502.5	22637.1	19613.1	10802.8	4020.2	1856.7	845.3	679.3	634.0	603.8	603.8
42.5°	24056.0	23175.5	20549.0	10747.5	4000.1	1720.8	845.3	623.9	588.7	558.5	553.5
45°	23935.2	23578.0	20966.6	10722.3	4000.1	1584.9	769.8	608.8	558.5	518.3	508.2
47.5°	24247.2	23779.2	21489.9	10828.0	3919.6	1489.3	649.1	639.0	528.3	478.0	467.9
50°	24302.5	24393.1	22400.6	11376.4	3743.5	1368.6	508.2	628.9	508.2	432.7	422.7
52°	24664.8	24101.3	22677.3	11668.2	3557.3	1278.0	427.7	538.4	488.1	402.5	392.5
52.5°	24166.7	24534.0	22742.7	11773.9	3577.5	1217.6	412.6	528.3	478.0	402.5	377.4
55°	23608.2	23960.4	22476.1	12000.3	3280.6	956.0	322.0	382.4	432.7	352.2	337.1
57.5°	20518.8	20876.0	19532.6	10989.0	2671.8	674.2	266.7	286.8	382.4	327.1	312.0
60°	18239.5	17982.9	16392.9	9167.5	1896.9	377.4	211.3	221.4	417.6	301.9	296.9
62.5°	16669.6	16121.2	13701.0	7079.4	1157.3	251.6	166.0	171.1	322.0	281.8	281.8
65°	12332.4	11718.5	9102.1	4281.9	568.6	176.1	125.8	135.9	201.3	241.5	241.5
67.5°	7039.2	6802.7	4397.6	1932.1	236.5	110.7	95.6	105.7	156.0	196.2	186.2
70°	3235.3	2903.2	1690.6	407.6	110.7	75.5	75.5	85.5	125.8	145.9	135.9
72.5°	945.9	895.6	412.6	65.4	45.3	45.3	50.3	65.4	95.6	110.7	100.6
75°	70.4	45.3	30.2	20.1	20.1	30.2	40.3	65.4	95.6	105.7	85.5
77.5°	5.0	10.1	5.0	5.0	15.1	30.2	45.3	80.5	125.8	130.8	95.6
80°	5.0	5.0	0.0	5.0	15.1	30.2	50.3	90.6	140.9	150.9	80.5
82.5°	0.0	0.0	0.0	5.0	20.1	40.3	60.4	95.6	130.8	161.0	85.5
85°	0.0	0.0	0.0	5.0	30.2	55.3	70.4	25.2	15.1	0.0	0.0
87.5°	0.0	0.0	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12860.7	12860.7	12860.7	12860.7	12860.7	12860.7	12860.7	12860.7	12860.7	12860.7	12860.7
2.5°	10817.9	10687.1	10636.8	10682.0	10666.9	10651.9	10928.6	10868.2	10858.1	10948.7	10928.6
5°	8121.0	7889.5	8523.5	8266.9	8533.6	8694.6	8724.8	8739.9	8926.0	8729.8	8986.4
7.5°	5786.3	5846.7	5841.7	6012.7	6319.7	6591.4	6752.4	6626.6	6616.5	6591.4	6480.7
10°	4624.0	4518.4	4498.2	4458.0	4553.6	4785.0	4981.3	4825.3	4714.6	4865.5	4820.3
12.5°	3778.7	3632.8	3552.3	3391.3	3396.3	3552.3	3552.3	3552.3	3663.0	3748.5	3813.9
15°	2898.2	2777.4	2777.4	2616.4	2581.2	2586.2	2666.7	2676.8	2852.9	2903.2	2928.4
17.5°	2027.7	1962.3	2037.8	2103.2	2062.9	2073.0	2103.2	2113.3	2138.4	2118.3	2168.6
20°	1559.8	1549.7	1569.9	1685.6	1771.1	1821.4	1786.2	1735.9	1705.7	1635.3	1635.3
22.5°	1323.3	1343.4	1378.7	1474.3	1584.9	1615.1	1574.9	1459.2	1368.6	1358.5	1363.6
25°	1177.4	1197.5	1252.9	1313.2	1373.6	1423.9	1383.7	1298.1	1247.8	1202.5	1202.5
27.5°	1086.8	1096.9	1127.1	1172.4	1222.7	1262.9	1247.8	1202.5	1147.2	1127.1	1081.8
30°	1016.4	1031.5	1066.7	1076.8	1122.0	1142.2	1117.0	1106.9	1071.7	1046.6	1031.5
32.5°	981.2	976.1	1001.3	1011.3	1016.4	1031.5	1001.3	1016.4	1011.3	971.1	956.0
35°	739.6	779.9	845.3	900.7	915.7	935.9	930.8	910.7	855.4	810.1	754.7
37.5°	664.2	689.3	724.5	769.8	830.2	855.4	845.3	795.0	729.6	699.4	689.3
40°	613.9	628.9	659.1	689.3	749.7	795.0	759.8	714.5	664.2	639.0	623.9
42.5°	568.6	573.6	588.7	618.9	664.2	734.6	674.2	613.9	593.7	578.6	568.6
45°	518.3	518.3	538.4	553.5	603.8	669.2	608.8	553.5	543.4	533.3	528.3
47.5°	478.0	483.0	493.1	513.2	553.5	598.8	558.5	513.2	488.1	483.0	473.0
50°	427.7	432.7	452.8	473.0	523.3	548.4	523.3	473.0	447.8	432.7	432.7
52°	387.4	402.5	422.7	462.9	498.1	538.4	508.2	452.8	422.7	407.6	397.5
52.5°	382.4	392.5	412.6	457.9	498.1	533.3	503.2	447.8	412.6	402.5	392.5
55°	342.1	357.2	392.5	447.8	493.1	533.3	493.1	442.8	392.5	367.3	357.2
57.5°	327.1	337.1	382.4	452.8	488.1	533.3	493.1	442.8	392.5	347.2	337.1
60°	312.0	332.1	382.4	437.7	483.0	538.4	498.1	437.7	382.4	327.1	327.1
62.5°	296.9	312.0	377.4	427.7	462.9	518.3	478.0	427.7	367.3	312.0	306.9
65°	256.6	281.8	332.1	357.2	397.5	447.8	407.6	372.3	322.0	276.7	271.7
67.5°	196.2	206.3	246.5	276.7	301.9	347.2	327.1	281.8	246.5	211.3	211.3
70°	135.9	145.9	176.1	191.2	216.4	241.5	226.4	191.2	166.0	145.9	140.9
72.5°	95.6	100.6	110.7	120.8	130.8	140.9	135.9	110.7	95.6	90.6	85.5
75°	75.5	85.5	90.6	85.5	80.5	75.5	75.5	65.4	55.3	50.3	50.3
77.5°	75.5	80.5	75.5	65.4	55.3	50.3	45.3	40.3	30.2	25.2	30.2
80°	65.4	65.4	65.4	55.3	50.3	45.3	40.3	35.2	30.2	25.2	25.2
82.5°	70.4	70.4	65.4	55.3	55.3	45.3	45.3	40.3	35.2	25.2	25.2
85°	0.0	0.0	0.0	10.1	25.2	45.3	45.3	40.3	35.2	30.2	30.2
87.5°	0.0	0.0	0.0	0.0	5.0	10.1	20.1	25.2	30.2	30.2	30.2
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12860.7	12860.7	12860.7	12860.7	12860.7	12860.7	12860.7	12860.7	12860.7	12860.7	12860.7
2.5°	11109.7	11300.9	11663.2	12025.5	12246.9	12508.5	12981.5	13233.1	13560.1	13721.1	14038.1
5°	8951.2	9404.0	9565.0	9977.6	10420.4	10863.2	11567.6	12342.5	12986.5	13429.3	14002.9
7.5°	6531.0	6636.7	7260.6	7537.3	8261.9	9066.9	10027.9	11004.1	11819.2	12543.7	12981.5
10°	4895.7	5283.2	5675.6	6203.9	6787.6	7617.8	8538.6	9615.3	10672.0	11396.5	11950.0
12.5°	3934.7	4241.6	4764.9	5333.5	6053.0	6601.4	7527.2	8593.9	9962.5	10672.0	11401.6
15°	2978.7	3371.2	3964.9	4553.6	5313.3	5892.0	6827.9	8171.3	9932.3	10908.5	11537.4
17.5°	2208.9	2475.5	3008.9	3668.0	4442.9	5258.0	6520.9	8126.0	10269.5	11431.7	12080.8
20°	1690.6	1781.2	2118.3	2707.0	3547.3	4614.0	6022.8	8322.2	11265.7	12704.7	13363.9
22.5°	1368.6	1408.8	1539.7	1947.2	2762.3	4050.4	5786.3	8458.1	12387.7	14229.3	15109.8
25°	1192.5	1182.4	1268.0	1444.1	2158.5	3522.1	5484.4	8971.3	13761.4	16020.5	16810.5
27.5°	1086.8	1086.8	1127.1	1252.9	1791.2	3180.0	5293.2	9338.6	15145.1	17595.4	18023.1
30°	1031.5	1041.5	1157.3	1197.5	1489.3	2772.4	4976.2	9710.9	16468.4	18601.7	19190.4
32.5°	956.0	915.7	890.6	991.2	1252.9	2405.1	4659.2	9866.9	17540.1	19834.5	20337.6
35°	734.6	714.5	744.7	820.1	1076.8	2093.1	4307.0	10043.0	18772.8	21263.5	21364.1
37.5°	664.2	659.1	679.3	744.7	905.7	1821.4	4055.5	9997.7	19713.7	22445.9	22174.2
40°	613.9	613.9	628.9	684.3	810.1	1630.2	3793.8	9957.5	20624.4	23774.2	22979.2
42.5°	573.6	573.6	598.8	634.0	769.8	1504.4	3597.6	9902.1	21389.2	24589.3	23452.2
45°	518.3	533.3	573.6	608.8	779.9	1418.9	3451.7	9690.8	21650.9	24579.3	23225.8
47.5°	478.0	498.1	538.4	588.7	704.4	1393.7	3351.0	9504.7	21560.3	23975.5	22516.3
50°	432.7	457.9	513.2	598.8	598.8	1343.4	3245.4	9670.7	21494.9	23507.5	21837.1
52°	402.5	422.7	493.1	583.7	523.3	1237.8	3180.0	9992.7	21761.6	23447.2	21535.2
52.5°	397.5	412.6	478.0	573.6	498.1	1217.6	3134.7	10068.2	21847.1	23296.2	21741.5
55°	352.2	372.3	437.7	447.8	407.6	1001.3	2988.8	10239.3	21424.5	22999.3	21545.2
57.5°	332.1	342.1	387.4	367.3	352.2	754.7	2571.1	9972.6	19029.4	20428.2	20045.8
60°	306.9	317.0	362.3	286.8	296.9	528.3	1932.1	8659.3	15280.9	17021.8	17711.2
62.5°	296.9	291.8	342.1	231.5	251.6	382.4	1363.6	7039.2	11773.9	14012.9	15205.4
65°	261.6	256.6	246.5	196.2	216.4	296.9	815.1	4593.8	8297.1	10601.5	11255.6
67.5°	201.3	211.3	181.1	156.0	181.1	231.5	452.8	2057.9	4352.3	6359.9	6888.2
70°	140.9	150.9	145.9	135.9	161.0	191.2	261.6	704.4	1801.3	3341.0	3683.1
72.5°	85.5	105.7	110.7	115.7	140.9	166.0	186.2	226.4	478.0	1182.4	1469.2
75°	50.3	70.4	85.5	100.6	115.7	140.9	156.0	161.0	166.0	221.4	357.2
77.5°	35.2	50.3	75.5	95.6	115.7	140.9	166.0	176.1	166.0	156.0	166.0
80°	30.2	50.3	70.4	90.6	120.8	145.9	166.0	166.0	161.0	140.9	150.9
82.5°	30.2	50.3	75.5	95.6	115.7	140.9	161.0	166.0	150.9	140.9	145.9
85°	35.2	55.3	80.5	100.6	125.8	115.7	105.7	85.5	80.5	65.4	70.4
87.5°	35.2	50.3	50.3	55.3	60.4	60.4	60.4	55.3	45.3	40.3	40.3
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°	12860.7	12860.7	12860.7	12860.7	12860.7	12860.7	12860.7	12860.7	12860.7	12860.7
2.5°	14053.2	14455.7	14440.6	14450.7	14390.3	13982.8	13786.5	13288.4	13429.3	13368.9
5°	14591.6	14989.1	15331.2	15291.0	14828.1	14274.6	13454.4	12679.6	12468.3	12156.3
7.5°	14053.2	15009.2	15326.2	15280.9	14596.6	13887.2	12578.9	11804.1	11436.8	11230.5
10°	13197.8	14304.8	14697.2	14777.7	14314.8	13238.1	12035.5	10792.7	10596.5	10239.3
12.5°	12709.8	13514.8	13756.3	13972.7	13811.7	13006.6	11622.9	10430.5	10158.8	9922.3
15°	12312.3	12790.3	12890.9	13137.5	13233.1	12800.3	11839.3	10822.9	10153.7	10128.6
17.5°	12679.6	12483.3	12116.0	12191.5	12493.4	12805.4	12397.8	11597.8	10948.7	10868.2
20°	13288.4	12423.0	11592.8	11778.9	12030.5	12986.5	13243.1	12679.6	12307.2	12100.9
22.5°	13987.8	12528.6	11426.7	11517.3	11995.3	13394.1	14611.7	14299.7	13605.4	13308.5
25°	15280.9	12820.5	11557.5	11617.9	12272.0	13962.6	15849.5	16080.9	15668.3	15608.0
27.5°	16543.8	13575.2	11844.3	11708.5	12412.9	14516.1	16599.2	17842.0	17117.4	16976.5
30°	17187.9	14189.1	12272.0	12040.6	12996.6	14853.2	17052.0	18989.2	18355.2	18289.8
32.5°	18174.1	14747.6	12604.1	12307.2	13323.6	15270.8	17897.3	20242.0	19628.2	19301.1
35°	18586.7	15356.4	13333.7	12986.5	14259.5	15854.5	18330.0	21359.1	21167.9	20850.9
37.5°	19381.6	16010.5	14194.1	14174.0	15391.6	16614.3	19109.9	22878.6	22843.4	22294.9
40°	19447.1	16725.0	15552.6	16186.6	17142.6	17937.6	19794.2	23301.2	23874.8	23502.5
42.5°	19547.7	17977.8	17902.4	18425.6	19245.8	19074.7	19819.4	23401.9	24277.4	24056.0
45°	19593.0	19230.7	20292.4	21258.4	21600.6	20564.1	19582.9	23210.7	24488.7	23935.2
47.5°	19230.7	20307.5	22224.5	24091.2	24191.8	21479.8	19482.3	23014.4	24614.5	24247.2
50°	19281.0	20981.7	23895.0	25565.5	25198.1	22289.9	19326.3	22893.7	24549.1	24302.5
52°	19160.3	20996.8	24131.5	25535.3	25278.7	21842.1	19059.6	22430.8	24488.7	24664.8
52.5°	19296.1	20906.2	23884.9	25555.4	25223.3	22063.5	19024.4	22687.4	24523.9	24166.7
55°	18828.2	19829.5	22440.8	23150.3	23100.0	20025.7	17942.6	21837.1	23603.1	23608.2
57.5°	17016.8	17187.9	17600.5	17585.4	17353.9	15743.8	15346.3	20081.0	21042.1	20518.8
60°	14994.1	12584.0	11472.0	11019.2	10762.5	10500.9	13575.2	18370.3	18460.9	18239.5
62.5°	12956.3	8724.8	7245.5	7119.7	7180.1	8136.1	13122.4	17691.0	17147.6	16669.6
65°	10455.6	6359.9	5263.0	5097.0	5685.7	6717.2	10621.7	13565.1	12729.9	12332.4
67.5°	6566.2	4639.1	3557.3	3245.4	3954.8	4624.0	6978.8	8523.5	7587.6	7039.2
70°	3894.4	2591.3	1610.1	1444.1	1625.2	2465.5	3909.5	4251.7	3517.1	3235.3
72.5°	1534.6	951.0	447.8	382.4	397.5	865.4	1439.0	1403.8	1061.7	945.9
75°	412.6	286.8	156.0	125.8	105.7	161.0	231.5	150.9	55.3	70.4
77.5°	191.2	171.1	135.9	105.7	80.5	60.4	30.2	10.1	10.1	5.0
80°	166.0	145.9	125.8	105.7	80.5	50.3	25.2	5.0	5.0	5.0
82.5°	156.0	135.9	115.7	95.6	75.5	50.3	25.2	5.0	0.0	0.0
85°	65.4	85.5	95.6	90.6	80.5	50.3	25.2	5.0	0.0	0.0
87.5°	35.2	30.2	25.2	20.1	15.1	10.1	10.1	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

(END OF REPORT)