

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: STREETWORKS

Report Number: P324461

Luminaire Tested: **GAN-SA7D-730-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37049 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

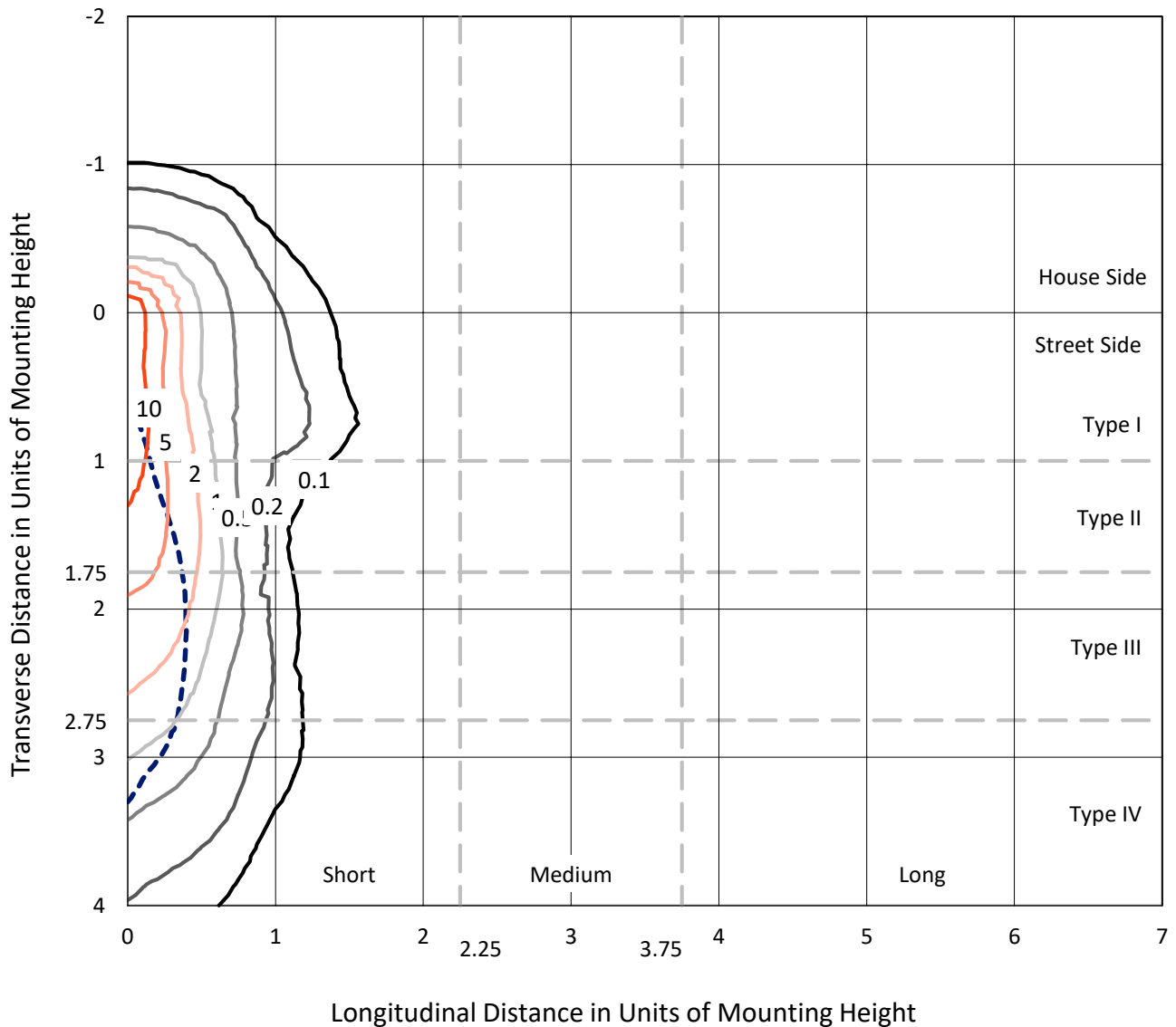
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

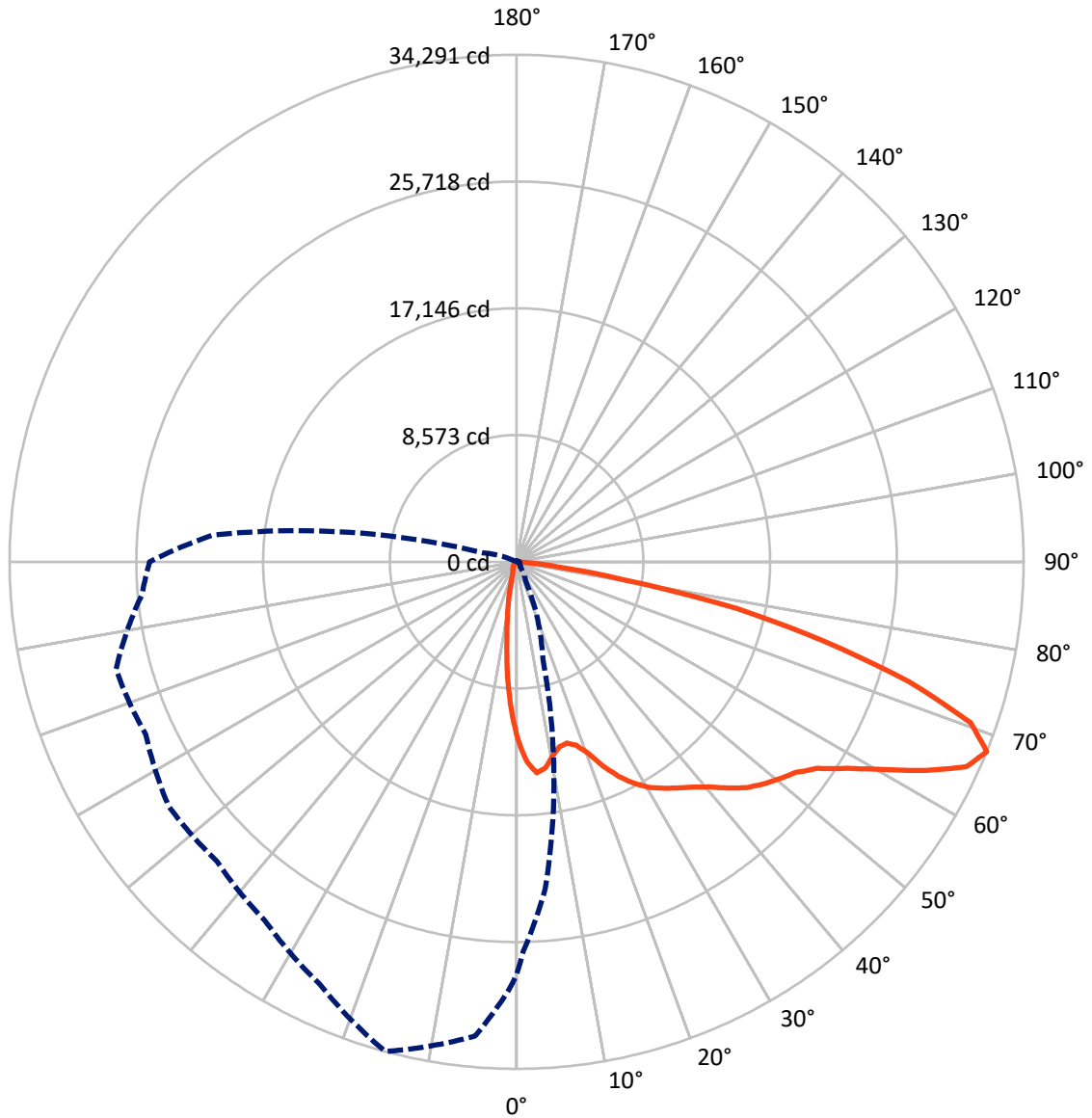
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4484.1	0.0	4484.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	32564.9	0.0	32564.9
	% Fixture	87.9	0.0	87.9
Total	Lumens	37049.0	0.0	37049.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	926.3	2.5
10°-20°	1843.7	5.0
20°-30°	2618.1	7.1
30°-40°	3867.0	10.4
40°-50°	5577.1	15.1
50°-60°	7829.0	21.1
60°-70°	9126.4	24.6
70°-80°	4665.6	12.6
80°-90°	595.9	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°	37049.0	100.0
0°-180°	37049.0	100.0

Coefficient of Utilization

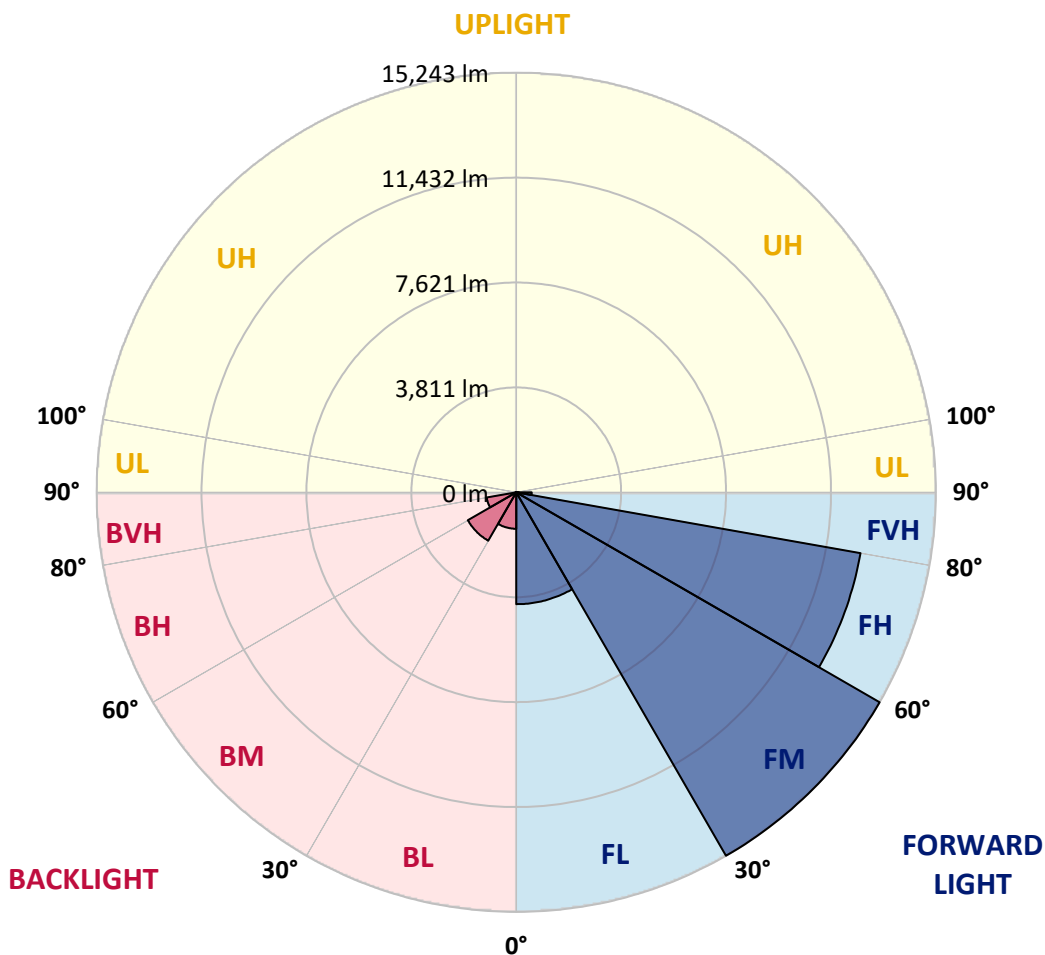


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4063.6	11.0			
FM (30°-60°)	15242.6	41.1			
FH (60°-80°)	12699.1	34.3			G5
FVH (80°-90°)	559.6	1.5			G4/750
BL (0°-30°)	1324.4	3.6	B3/2500		
BM (30°-60°)	2030.6	5.5	B2/2500		
BH (60°-80°)	1092.9	2.9	B3/2500		G3/2500
BVH (80°-90°)	36.2	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-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12068.6	12068.6	12068.6	12068.6	12068.6	12068.6	12068.6	12068.6	12068.6	12068.6	12068.6
2.5°	13214.8	13113.0	13000.6	12633.8	12293.3	11903.7	11586.0	11364.8	11087.5	10727.7	10636.4
5°	13120.0	13011.2	12658.4	11842.2	11127.9	10432.8	9762.3	9369.2	8881.2	8386.3	8263.4
7.5°	12166.9	12052.8	11543.8	10425.8	9464.0	8460.0	7589.4	7050.6	6499.4	6046.6	5806.1
10°	11175.3	11050.6	10478.4	9121.7	7936.9	7029.5	6390.6	5876.4	5355.1	4870.6	4484.5
12.5°	10492.5	10329.3	9707.9	8170.4	7138.3	6522.3	5925.5	5309.4	4603.8	4084.3	3659.6
15°	10206.4	10020.3	9363.9	7803.5	6855.7	6132.6	5355.1	4598.6	3771.9	3176.9	2787.2
17.5°	10427.5	10185.3	9481.5	7779.0	6501.2	5516.5	4533.6	3645.5	2748.6	2146.6	1869.3
20°	11178.8	10861.1	9967.7	7772.0	6071.2	4784.6	3538.5	2534.5	1811.3	1456.8	1311.1
22.5°	12361.8	11942.3	10666.3	7828.1	5627.1	4015.9	2555.5	1721.8	1360.3	1176.0	1090.0
25°	13790.5	13304.3	11672.0	8026.5	5237.5	3268.2	1857.0	1360.3	1147.9	1012.7	940.8
27.5°	15149.0	14754.1	12942.7	8312.5	4935.6	2664.4	1507.7	1153.2	981.1	891.6	833.7
30°	16505.7	16009.0	14246.8	8653.1	4572.3	2255.4	1325.2	1051.4	879.3	784.6	747.7
32.5°	17492.2	17079.7	15268.3	8898.8	4184.4	1988.6	1184.7	961.8	821.4	724.9	670.5
35°	18652.3	18185.5	16144.2	8953.2	3935.1	1820.1	1065.4	865.3	712.6	626.6	568.7
37.5°	19905.5	19324.6	17155.2	8833.8	3740.3	1737.6	975.9	821.4	665.2	577.5	516.0
40°	21292.1	20635.7	18125.8	8661.8	3549.0	1709.5	907.4	788.1	628.4	538.8	475.7
42.5°	22752.4	21978.4	18966.5	8481.0	3427.9	1613.0	900.4	754.7	600.3	503.7	440.6
45°	23979.3	23194.8	19830.1	8421.4	3341.9	1507.7	930.2	731.9	581.0	475.7	414.2
47.5°	24957.0	24214.5	20714.7	8554.8	3292.7	1411.2	847.8	761.7	570.4	451.1	391.4
50°	26124.2	25283.4	21960.9	8953.2	3220.8	1314.6	767.0	872.3	570.4	435.3	372.1
52.5°	27588.0	26756.0	23351.0	9571.0	3076.8	1181.2	689.8	874.1	575.7	414.2	347.5
55°	29429.2	28825.4	25336.1	10248.5	2846.9	984.7	596.8	751.2	554.6	375.6	324.7
57.5°	31194.9	30701.7	27145.7	10711.9	2539.8	768.8	519.5	605.5	507.2	330.0	289.6
59°	31677.6	31138.7	27809.1	10732.9	2309.8	670.5	480.9	500.2	496.7	308.9	268.5
60°	31677.6	31105.4	28000.4	10620.6	2143.1	616.1	456.3	445.8	517.8	294.9	256.3
62.5°	31103.6	30299.7	27379.1	9860.6	1748.2	524.8	398.4	368.6	465.1	265.0	226.4
65°	29910.1	28739.4	25262.4	8486.3	1558.6	480.9	344.0	301.9	323.0	233.4	198.3
67.5°	27919.7	26333.0	22210.1	6855.7	1483.1	468.6	296.6	256.3	244.0	200.1	173.8
70°	24414.6	22654.2	18504.9	5390.2	1418.2	463.4	249.2	215.9	196.6	168.5	147.4
72.5°	17769.5	15933.6	13137.5	4214.2	1379.6	473.9	200.1	180.8	161.5	131.6	114.1
75°	10164.3	8962.0	7384.1	2783.7	1176.0	452.8	154.5	150.9	115.8	94.8	79.0
77.5°	5251.5	5091.8	4424.8	1068.9	563.4	198.3	101.8	87.8	68.5	57.9	47.4
80°	2265.9	2241.4	1939.5	308.9	149.2	110.6	57.9	36.9	31.6	24.6	19.3
82.5°	782.8	782.8	689.8	103.6	66.7	54.4	7.0	0.0	0.0	0.0	0.0
85°	158.0	177.3	124.6	0.0	22.8	0.0	0.0	0.0	0.0	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°	12068.6	12068.6	12068.6	12068.6	12068.6	12068.6	12068.6	12068.6	12068.6	12068.6	12068.6
2.5°	10525.8	10313.5	10299.4	10166.0	9999.3	9923.8	9879.9	9957.2	10051.9	10062.5	10204.6
5°	8170.4	7947.5	8040.5	7803.5	7850.9	7803.5	7726.3	7740.4	7782.5	7650.8	7814.1
7.5°	5737.7	5569.2	5676.3	5613.1	5697.3	5730.7	5683.3	5613.1	5406.0	5381.4	5523.6
10°	4324.8	4133.5	4019.4	3900.0	3926.3	3980.8	3963.2	3912.3	3780.7	3787.7	3924.6
12.5°	3475.3	3261.1	3034.7	2741.6	2669.6	2710.0	2669.6	2639.8	2513.4	2524.0	2645.1
15°	2636.3	2460.8	2223.8	1988.6	1860.5	1872.8	1760.4	1681.5	1602.5	1507.7	1581.4
17.5°	1779.8	1672.7	1602.5	1532.3	1379.6	1344.5	1202.3	1049.6	989.9	946.0	977.6
20°	1260.2	1202.3	1174.2	1170.7	1082.9	1039.1	900.4	805.6	775.8	767.0	786.3
22.5°	1053.1	1011.0	970.6	947.8	903.9	853.0	747.7	700.3	679.3	668.7	682.8
25°	916.2	884.6	842.5	803.9	786.3	731.9	656.4	621.3	607.3	596.8	603.8
27.5°	814.4	786.3	737.2	712.6	698.6	651.2	586.2	558.1	545.9	542.4	540.6
30°	733.7	707.3	661.7	633.6	609.0	566.9	528.3	500.2	487.9	484.4	480.9
32.5°	652.9	631.9	602.0	573.9	547.6	509.0	475.7	452.8	433.5	430.0	428.3
35°	551.1	530.1	514.3	512.5	487.9	451.1	426.5	396.7	380.9	375.6	377.4
37.5°	489.7	461.6	426.5	438.8	431.8	405.4	372.1	342.3	326.5	323.0	323.0
40°	451.1	421.2	380.9	359.8	380.9	375.6	323.0	293.1	277.3	275.6	272.1
42.5°	414.2	384.4	338.8	303.6	314.2	330.0	279.1	251.0	235.2	231.7	226.4
45°	387.9	356.3	305.4	265.0	244.0	277.3	238.7	203.6	194.8	187.8	184.3
47.5°	363.3	333.5	275.6	229.9	194.8	200.1	191.3	166.7	156.2	149.2	147.4
50°	342.3	310.7	249.2	196.6	161.5	147.4	154.5	131.6	122.9	115.8	112.3
52.5°	317.7	287.9	221.2	170.3	135.1	115.8	117.6	103.6	94.8	89.5	87.8
55°	298.4	268.5	198.3	149.2	119.4	94.8	84.2	80.7	75.5	72.0	70.2
57.5°	272.1	244.0	175.5	126.4	101.8	77.2	64.9	64.9	63.2	59.7	57.9
59°	256.3	231.7	161.5	114.1	93.0	66.7	57.9	59.7	57.9	54.4	52.7
60°	244.0	221.2	150.9	105.3	87.8	61.4	52.7	56.2	54.4	50.9	49.1
62.5°	215.9	200.1	129.9	87.8	77.2	49.1	43.9	47.4	47.4	45.6	43.9
65°	189.6	172.0	110.6	73.7	72.0	42.1	35.1	42.1	43.9	40.4	36.9
67.5°	165.0	147.4	96.5	59.7	66.7	33.3	26.3	35.1	47.4	36.9	33.3
70°	140.4	122.9	75.5	47.4	70.2	22.8	21.1	31.6	56.2	40.4	31.6
72.5°	108.8	94.8	52.7	35.1	75.5	15.8	15.8	26.3	63.2	43.9	29.8
75°	75.5	61.4	31.6	21.1	61.4	10.5	10.5	24.6	59.7	40.4	28.1
77.5°	43.9	33.3	10.5	1.8	31.6	0.0	1.8	17.6	42.1	24.6	12.3
80°	15.8	7.0	0.0	0.0	19.3	0.0	0.0	0.0	3.5	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12068.6	12068.6	12068.6	12068.6	12068.6	12068.6	12068.6	12068.6	12068.6	12068.6	12068.6
2.5°	10241.5	10478.4	10690.8	11012.0	11392.9	11831.7	12209.1	12614.5	12995.4	13153.3	13262.2
5°	7847.4	8140.5	8482.8	8954.9	9583.3	10357.3	11082.2	11901.9	12783.0	13223.6	13637.8
7.5°	5548.1	5846.5	6271.3	6773.3	7533.2	8454.7	9402.5	10534.6	11728.1	12424.9	13111.2
10°	3989.5	4356.4	4753.0	5439.3	6211.6	7085.7	8061.6	9325.3	10655.7	11428.0	12254.7
12.5°	2715.3	3133.0	3733.3	4502.0	5409.5	6266.0	7113.8	8319.6	9864.1	10629.4	11515.8
15°	1628.8	1860.5	2495.9	3385.7	4498.5	5565.7	6494.2	7703.5	9349.9	10287.1	11208.6
17.5°	1004.0	1111.0	1456.8	2187.0	3355.9	4705.6	5978.2	7494.6	9423.6	10564.5	11550.9
20°	800.4	842.5	953.1	1291.8	2223.8	3757.8	5397.2	7452.5	10025.6	11429.8	12488.1
22.5°	695.1	735.4	809.1	939.0	1398.9	2813.6	4846.1	7491.1	10889.2	12726.8	13962.5
25°	612.6	647.7	717.9	824.9	1025.0	1981.6	4256.3	7663.1	12014.2	14336.3	15649.2
27.5°	547.6	577.5	642.4	740.7	879.3	1383.1	3587.6	7872.0	13348.2	15982.7	17278.0
30°	487.9	514.3	572.2	663.5	763.5	1063.6	2853.9	8014.2	14683.9	17278.0	18441.7
32.5°	437.0	456.3	509.0	586.2	663.5	847.8	2169.4	7991.4	15675.5	18355.7	19278.9
35°	384.4	403.7	449.3	516.0	577.5	700.3	1706.0	7564.8	16539.1	19473.8	20237.3
37.5°	326.5	351.0	394.9	454.6	496.7	616.1	1379.6	7050.6	17414.9	20751.5	21306.2
40°	277.3	301.9	340.5	405.4	431.8	584.5	1060.1	6424.0	18399.6	22180.3	22478.6
42.5°	229.9	252.7	293.1	349.3	407.2	503.7	784.6	5707.9	19345.6	23401.9	23547.5
45°	186.0	208.9	251.0	307.2	435.3	417.7	607.3	4940.8	20109.1	24418.1	24465.5
47.5°	147.4	168.5	212.4	289.6	405.4	333.5	433.5	4338.8	20749.8	25211.5	25086.8
50°	114.1	131.6	177.3	331.7	354.5	275.6	328.2	4138.7	21323.7	25702.9	25380.0
52.5°	89.5	105.3	145.7	310.7	275.6	228.2	275.6	4326.5	22110.0	26110.1	25544.9
55°	72.0	87.8	114.1	177.3	187.8	193.1	235.2	4502.0	23466.8	27064.9	26519.1
57.5°	59.7	75.5	93.0	124.6	142.2	163.2	208.9	4521.4	25065.8	28651.6	28135.6
59°	54.4	68.5	84.2	110.6	124.6	149.2	196.6	4416.0	25629.2	29229.1	28971.1
60°	50.9	64.9	79.0	101.8	115.8	140.4	189.6	4316.0	25653.8	29208.0	29327.4
62.5°	43.9	57.9	70.2	86.0	98.3	119.4	170.3	3945.7	24614.7	28251.4	29113.2
65°	38.6	50.9	63.2	73.7	84.2	107.1	154.5	3269.9	22840.2	26708.6	27647.7
67.5°	35.1	43.9	57.9	64.9	75.5	94.8	136.9	2330.9	20623.4	24821.8	25430.9
70°	31.6	42.1	52.7	59.7	68.5	82.5	117.6	1339.2	17414.9	22059.1	22492.7
72.5°	29.8	40.4	47.4	56.2	61.4	73.7	107.1	630.1	12751.4	17671.2	18803.3
75°	26.3	36.9	43.9	52.7	57.9	66.7	91.3	301.9	8481.0	12788.3	14074.8
77.5°	15.8	29.8	40.4	47.4	50.9	57.9	75.5	173.8	5413.0	8851.4	10425.8
80°	0.0	10.5	29.8	40.4	43.9	49.1	57.9	136.9	2896.1	5056.7	6069.4
82.5°	0.0	0.0	21.1	31.6	29.8	33.3	43.9	86.0	1305.9	3305.0	3724.5
85°	0.0	0.0	7.0	24.6	21.1	15.8	29.8	29.8	286.1	1672.7	2086.9
87.5°	0.0	0.0	0.0	1.8	10.5	7.0	12.3	3.5	1.8	124.6	505.5
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°	12068.6	12068.6	12068.6	12068.6	12068.6	12068.6	12068.6	12068.6	12068.6	12068.6
2.5°	13643.0	13772.9	13992.3	14095.9	14045.0	13829.1	13571.1	13307.8	13153.3	13214.8
5°	14482.0	15150.7	15536.9	15665.0	15450.9	14966.5	14332.8	13497.4	13200.7	13120.0
7.5°	14482.0	15740.5	16537.3	16677.8	16200.3	15250.8	14062.5	12758.4	12324.9	12166.9
10°	13973.0	15686.1	16797.1	17020.0	16353.0	14933.1	13341.2	11852.8	11338.5	11175.3
12.5°	13399.1	15243.8	16414.5	16721.6	16174.0	14617.2	12840.9	11240.2	10634.7	10492.5
15°	13046.3	14699.7	15668.5	15891.4	15659.7	14432.9	12721.6	11055.9	10343.3	10206.4
17.5°	13172.7	14278.4	14627.7	14757.6	14913.8	14367.9	13046.3	11459.6	10557.4	10427.5
20°	13648.3	13834.4	13653.6	13816.8	14238.1	14431.1	13820.3	12435.5	11352.5	11178.8
22.5°	14455.7	13604.4	13097.2	13162.1	13674.6	14640.0	15003.3	13829.1	12579.4	12361.8
25°	15396.5	13790.5	12788.3	12730.3	13256.9	14915.6	16084.5	15345.6	14030.9	13790.5
27.5°	16579.5	14208.2	12725.1	12667.2	13111.2	15173.6	16983.2	16844.5	15559.7	15149.0
30°	17492.2	14618.9	12912.9	12779.5	13256.9	15352.6	17704.5	18117.0	16777.8	16505.7
32.5°	18146.8	15103.4	13218.3	13025.2	13667.6	15661.5	18260.9	19282.4	17904.6	17492.2
35°	18645.3	15629.9	13711.5	13393.8	14232.8	16130.1	18782.2	20523.4	19103.4	18652.3
37.5°	19112.2	16368.8	14482.0	14102.9	15119.2	16884.9	19333.3	21931.0	20444.4	19905.5
40°	19763.4	17206.1	15670.3	15333.3	16609.3	17913.4	20021.4	23398.4	21969.6	21292.1
42.5°	20414.5	18104.7	16886.6	16977.9	18468.0	19163.1	20909.5	24949.9	23475.6	22752.4
45°	21009.5	19031.5	18619.0	19040.2	20193.4	20533.9	21792.4	25846.8	24677.9	23979.3
47.5°	21539.6	20189.9	20340.8	21462.4	22155.7	21774.8	22452.3	26620.9	25573.0	24957.0
50°	22155.7	21688.8	22610.3	24197.0	24414.6	22898.1	23052.6	27537.1	26619.1	26124.2
52.5°	22829.7	23268.5	25123.7	26522.6	26452.4	24118.0	23656.4	28563.9	28053.1	27588.0
55°	23594.9	24544.5	27337.0	28699.0	28639.3	25480.0	24656.8	29832.9	29850.4	29429.2
57.5°	24730.5	25643.2	28839.4	30459.5	30559.5	27052.6	26352.3	31254.6	31475.7	31194.9
59°	25544.9	26355.8	29434.4	31194.9	31602.1	28269.0	27591.5	32079.5	31933.8	31677.6
60°	26148.7	26808.7	29729.3	31579.3	32207.6	29093.9	28505.9	32563.9	31988.2	31677.6
62.5°	27642.4	27795.1	30261.1	32014.6	32904.4	30926.3	31079.0	33388.9	31610.9	31103.6
65°	28339.2	28418.2	30254.1	31235.2	32230.4	32353.3	33413.4	33413.4	30689.4	29910.1
67.5°	28047.8	27667.0	28753.4	28651.6	29645.1	31505.5	34291.0	32188.3	28927.2	27919.7
70°	25678.3	24212.8	23730.1	23774.0	24534.0	27403.7	32553.4	28583.2	25592.3	24414.6
72.5°	21365.9	17850.2	16658.4	18018.7	18217.1	21060.4	27742.4	21525.6	18873.5	17769.5
75°	17185.0	12582.9	10645.2	12080.9	12417.9	15412.3	21460.6	13406.1	11024.3	10164.3
77.5°	12346.0	9032.2	7638.6	7538.5	7973.8	9774.6	15228.0	6746.9	5627.1	5251.5
80°	7013.7	5944.8	6401.2	6039.6	6259.0	6111.5	7234.9	2959.2	2423.9	2265.9
82.5°	4233.5	3513.9	3805.2	3168.1	4008.8	3491.1	2787.2	947.8	823.2	782.8
85°	2753.9	1920.2	1000.5	670.5	1381.3	2230.8	623.1	258.0	198.3	158.0
87.5°	949.6	489.7	49.1	21.1	147.4	416.0	22.8	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)