

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: P383480

Luminaire Tested: **GAN-SA7D-735-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383480
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-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 37898.1 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

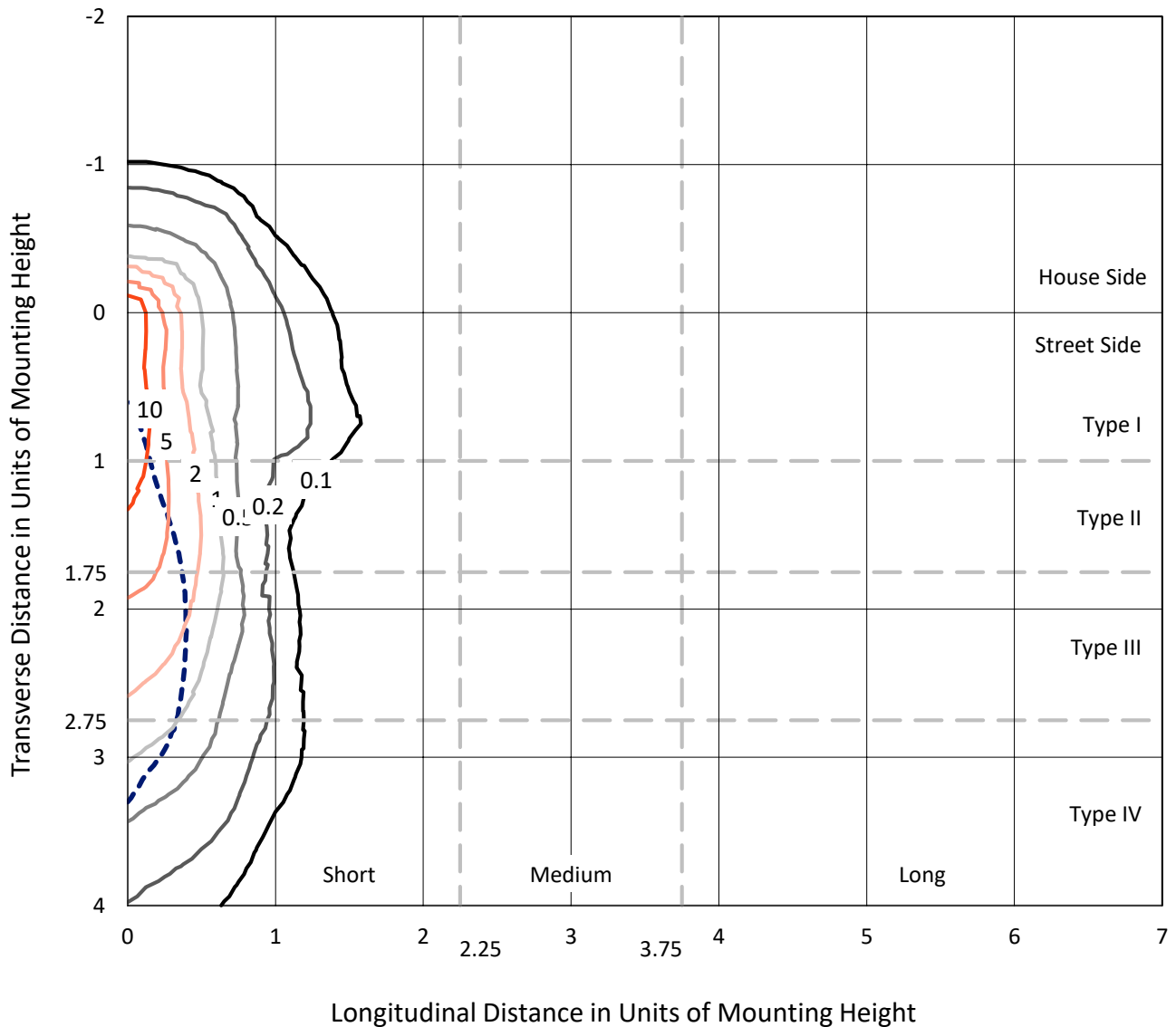
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

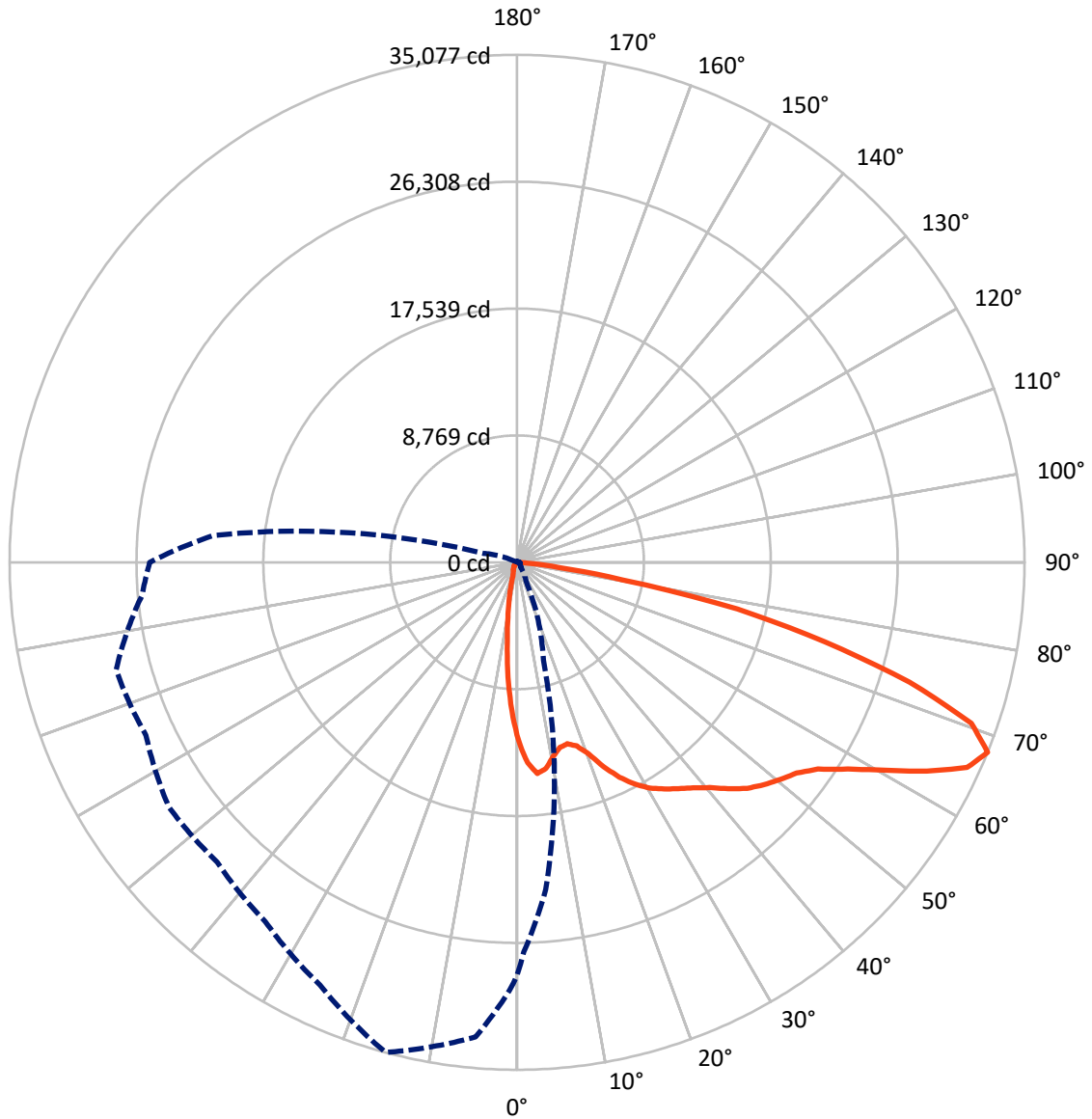
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.8 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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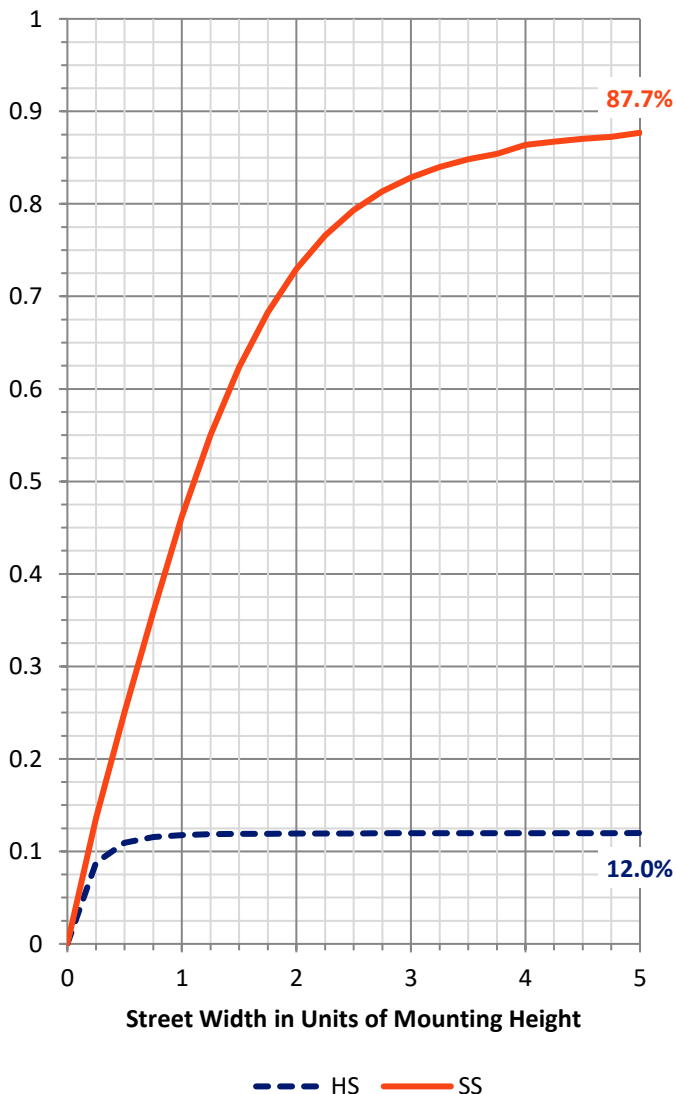
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4586.9	0.0	4586.9
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	33311.2	0.0	33311.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	37898.1	0.0	37898.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	947.5	2.5
10°-20°	1885.9	5.0
20°-30°	2678.1	7.1
30°-40°	3955.7	10.4
40°-50°	5704.9	15.1
50°-60°	8008.5	21.1
60°-70°	9335.6	24.6
70°-80°	4772.5	12.6
80°-90°	609.5	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°	37898.1	100.0
0°-180°	37898.1	100.0

Coefficient of Utilization

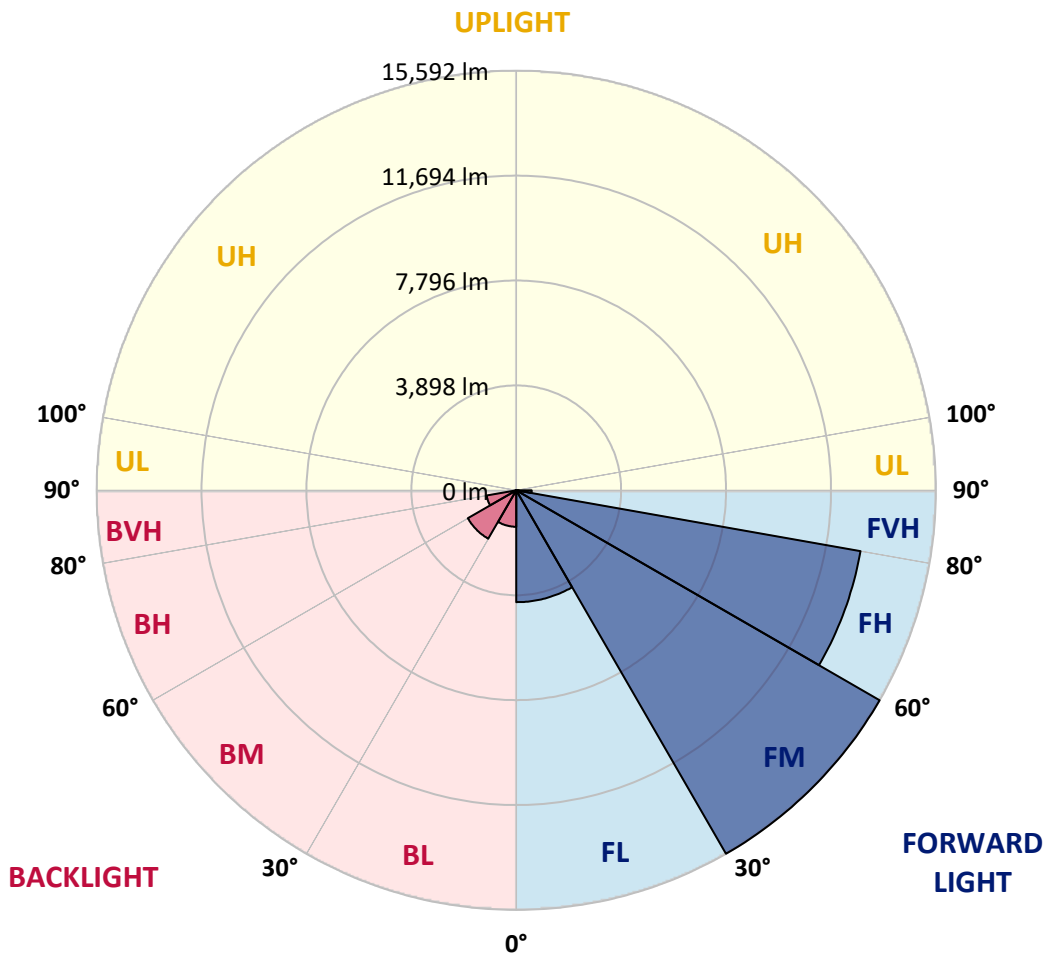


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4156.7	11.0			
FM (30°-60°)	15591.9	41.1			
FH (60°-80°)	12990.2	34.3			G5
FVH (80°-90°)	572.5	1.5			G4/750
BL (0°-30°)	1354.8	3.6	B3/2500		
BM (30°-60°)	2077.1	5.5	B2/2500		
BH (60°-80°)	1118.0	2.9	B3/2500		G3/2500
BVH (80°-90°)	37.0	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°	12345.2	12345.2	12345.2	12345.2	12345.2	12345.2	12345.2	12345.2	12345.2	12345.2	12345.2
2.5°	13517.7	13413.5	13298.6	12923.4	12575.1	12176.4	11851.5	11625.2	11341.6	10973.5	10880.2
5°	13420.7	13309.4	12948.5	12113.7	11383.0	10671.9	9986.1	9583.9	9084.8	8578.4	8452.8
7.5°	12445.8	12329.1	11808.4	10664.7	9680.8	8653.9	7763.3	7212.1	6648.5	6185.2	5939.3
10°	11431.4	11304.0	10718.6	9330.8	8118.8	7190.6	6537.1	6011.0	5477.8	4982.3	4587.3
12.5°	10733.0	10566.0	9930.4	8357.7	7301.9	6671.7	6061.3	5431.1	4709.3	4177.9	3743.4
15°	10440.3	10250.0	9578.5	7982.4	7012.9	6273.1	5477.8	4703.9	3858.4	3249.7	2851.1
17.5°	10666.5	10418.8	9698.8	7957.3	6650.2	5642.9	4637.5	3729.1	2811.6	2195.8	1912.1
20°	11434.9	11110.0	10196.2	7950.1	6210.3	4894.3	3619.5	2592.6	1852.8	1490.2	1341.1
22.5°	12645.1	12215.9	10910.8	8007.6	5756.1	4107.9	2614.1	1761.3	1391.5	1202.9	1115.0
25°	14106.5	13609.3	11939.5	8210.4	5357.5	3343.0	1899.5	1391.5	1174.2	1036.0	962.4
27.5°	15496.2	15092.2	13239.3	8503.1	5048.7	2725.4	1542.3	1179.6	1003.6	912.1	852.8
30°	16884.0	16376.0	14573.3	8851.4	4677.0	2307.1	1355.5	1075.5	899.5	802.5	764.8
32.5°	17893.1	17471.2	15618.3	9102.7	4280.3	2034.2	1211.9	983.9	840.3	741.5	685.8
35°	19079.9	18602.3	16514.2	9158.4	4025.3	1861.9	1089.8	885.2	728.9	641.0	581.8
37.5°	20361.8	19767.4	17548.4	9036.3	3826.1	1777.5	998.2	840.3	680.5	590.7	527.8
40°	21780.1	21108.7	18541.2	8860.3	3630.3	1748.7	928.2	806.2	642.8	551.2	486.5
42.5°	23273.9	22482.2	19401.2	8675.4	3506.4	1650.0	921.0	772.1	614.1	515.2	450.7
45°	24529.0	23726.3	20284.5	8614.4	3418.5	1542.3	951.6	748.7	594.3	486.5	423.8
47.5°	25529.0	24769.5	21189.4	8750.9	3368.2	1443.5	867.2	779.2	583.5	461.4	400.4
50°	26722.9	25862.9	22464.2	9158.4	3294.6	1344.8	784.5	892.3	583.5	445.3	380.6
52.5°	28220.3	27369.2	23886.2	9790.4	3147.3	1208.3	705.6	894.1	588.9	423.8	355.5
55°	30103.7	29486.1	25916.8	10483.5	2912.2	1007.2	610.4	768.4	567.3	384.3	332.2
57.5°	31909.9	31405.4	27767.9	10957.4	2598.0	786.4	531.4	619.4	518.9	337.5	296.2
59°	32403.6	31852.4	28446.5	10978.9	2362.8	685.8	492.0	511.7	508.1	316.0	274.7
60°	32403.6	31818.3	28642.2	10864.1	2192.2	630.2	466.8	456.0	529.7	301.6	262.1
62.5°	31816.4	30994.2	28006.6	10086.6	1788.2	536.9	407.6	377.0	475.7	271.1	231.6
65°	30595.7	29398.1	25841.4	8680.8	1594.3	492.0	351.9	308.8	330.3	238.8	202.9
67.5°	28559.6	26936.5	22719.1	7012.9	1517.1	479.4	303.4	262.1	249.6	204.7	177.7
70°	24974.1	23173.4	18929.0	5513.7	1450.7	474.0	255.0	220.9	201.1	172.3	150.8
72.5°	18176.7	16298.7	13438.7	4310.8	1411.2	484.8	204.7	184.9	165.2	134.7	116.7
75°	10397.2	9167.4	7553.3	2847.6	1202.9	463.3	158.0	154.5	118.5	97.0	80.8
77.5°	5371.9	5208.5	4526.2	1093.5	576.3	202.9	104.1	89.8	70.1	59.2	48.4
80°	2317.9	2292.7	1983.9	316.0	152.6	113.1	59.2	37.7	32.3	25.2	19.7
82.5°	800.8	800.8	705.6	105.9	68.2	55.6	7.2	0.0	0.0	0.0	0.0
85°	161.6	181.4	127.4	0.0	23.4	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°	12345.2	12345.2	12345.2	12345.2	12345.2	12345.2	12345.2	12345.2	12345.2	12345.2	12345.2
2.5°	10767.1	10549.9	10535.4	10399.1	10228.5	10151.3	10106.4	10185.4	10282.3	10293.1	10438.5
5°	8357.7	8129.6	8224.8	7982.4	8030.9	7982.4	7903.4	7917.8	7960.8	7826.2	7993.1
7.5°	5869.2	5696.9	5806.3	5741.7	5827.9	5862.0	5813.5	5741.7	5529.9	5504.7	5650.1
10°	4423.9	4228.2	4111.5	3989.4	4016.4	4072.0	4054.0	4001.9	3867.3	3874.5	4014.5
12.5°	3554.9	3335.9	3104.3	2804.4	2730.8	2772.1	2730.8	2700.3	2571.1	2581.8	2705.7
15°	2696.7	2517.1	2274.7	2034.2	1903.2	1915.7	1800.8	1720.0	1639.2	1542.3	1617.6
17.5°	1820.5	1711.1	1639.2	1567.4	1411.2	1375.2	1229.8	1073.7	1012.6	967.7	1000.0
20°	1289.1	1229.8	1201.1	1197.5	1107.8	1062.9	921.0	824.1	793.6	784.5	804.3
22.5°	1077.2	1034.1	992.8	969.6	924.7	872.6	764.8	716.4	694.8	684.0	698.4
25°	937.2	904.9	861.8	822.3	804.3	748.7	671.5	635.6	621.2	610.4	617.6
27.5°	833.1	804.3	754.1	728.9	714.6	666.1	599.6	570.9	558.4	554.7	553.0
30°	750.5	723.5	676.9	648.2	623.0	579.9	540.4	511.7	499.1	495.5	492.0
32.5°	667.9	646.3	615.8	587.1	560.1	520.6	486.5	463.3	443.5	439.9	438.1
35°	563.8	542.3	526.0	524.3	499.1	461.4	436.2	405.8	389.6	384.3	386.0
37.5°	500.9	472.2	436.2	448.8	441.6	414.7	380.6	350.1	334.0	330.3	330.3
40°	461.4	430.9	389.6	368.1	389.6	384.3	330.3	299.9	283.7	281.9	278.3
42.5°	423.8	393.2	346.5	310.6	321.4	337.5	285.4	256.7	240.6	237.0	231.6
45°	396.7	364.5	312.4	271.1	249.6	283.7	244.2	208.3	199.3	192.1	188.5
47.5°	371.7	341.1	281.9	235.2	199.3	204.7	195.7	170.6	159.8	152.6	150.8
50°	350.1	317.8	255.0	201.1	165.2	150.8	158.0	134.7	125.7	118.5	114.9
52.5°	324.9	294.5	226.2	174.2	138.2	118.5	120.3	105.9	97.0	91.6	89.8
55°	305.2	274.7	202.9	152.6	122.1	97.0	86.2	82.6	77.2	73.6	71.8
57.5°	278.3	249.6	179.5	129.3	104.1	79.0	66.4	66.4	64.6	61.0	59.2
59°	262.1	237.0	165.2	116.7	95.1	68.2	59.2	61.0	59.2	55.6	53.8
60°	249.6	226.2	154.5	107.7	89.8	62.9	53.8	57.5	55.6	52.1	50.3
62.5°	220.9	204.7	132.8	89.8	79.0	50.3	44.9	48.4	48.4	46.7	44.9
65°	193.9	176.0	113.1	75.4	73.6	43.1	35.9	43.1	44.9	41.3	37.7
67.5°	168.8	150.8	98.7	61.0	68.2	34.1	26.9	35.9	48.4	37.7	34.1
70°	143.6	125.7	77.2	48.4	71.8	23.4	21.5	32.3	57.5	41.3	32.3
72.5°	111.3	97.0	53.8	35.9	77.2	16.1	16.1	26.9	64.6	44.9	30.6
75°	77.2	62.9	32.3	21.5	62.9	10.8	10.8	25.2	61.0	41.3	28.7
77.5°	44.9	34.1	10.8	1.8	32.3	0.0	1.8	18.0	43.1	25.2	12.6
80°	16.1	7.2	0.0	0.0	19.7	0.0	0.0	0.0	3.6	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°	12345.2	12345.2	12345.2	12345.2	12345.2	12345.2	12345.2	12345.2	12345.2	12345.2	12345.2
2.5°	10476.2	10718.6	10935.8	11264.5	11654.0	12102.9	12488.9	12903.6	13293.2	13454.8	13566.1
5°	8027.3	8327.1	8677.2	9160.2	9803.0	10594.8	11336.2	12174.7	13075.9	13526.6	13950.4
7.5°	5675.3	5980.5	6415.0	6928.5	7705.9	8648.5	9618.0	10776.0	11996.9	12709.8	13411.8
10°	4081.0	4456.2	4861.9	5563.9	6354.0	7248.1	8246.3	9539.0	10899.9	11689.9	12535.6
12.5°	2777.5	3204.8	3818.9	4605.2	5533.5	6409.6	7276.8	8510.2	10090.2	10873.0	11779.7
15°	1666.2	1903.2	2553.1	3463.3	4601.7	5693.2	6643.1	7880.1	9564.2	10522.9	11465.5
17.5°	1026.9	1136.5	1490.2	2237.1	3432.8	4813.5	6115.1	7666.5	9639.6	10806.6	11815.6
20°	818.7	861.8	974.9	1321.4	2274.7	3843.9	5520.9	7623.3	10255.4	11691.8	12774.3
22.5°	711.0	752.3	827.7	960.5	1431.0	2878.0	4957.1	7662.8	11138.7	13018.6	14282.5
25°	626.6	662.5	734.3	843.9	1048.5	2027.0	4353.9	7838.8	12289.6	14664.9	16007.9
27.5°	560.1	590.7	657.1	757.6	899.5	1414.7	3669.8	8052.4	13654.1	16349.0	17674.1
30°	499.1	526.0	585.3	678.6	781.0	1088.0	2919.4	8197.8	15020.5	17674.1	18864.4
32.5°	447.0	466.8	520.6	599.6	678.6	867.2	2219.1	8174.5	16034.8	18776.5	19720.8
35°	393.2	413.0	459.6	527.8	590.7	716.4	1745.2	7738.2	16918.2	19920.1	20701.1
37.5°	334.0	359.1	404.0	465.0	508.1	630.2	1411.2	7212.1	17814.1	21227.2	21794.5
40°	283.7	308.8	348.3	414.7	441.6	597.9	1084.4	6571.2	18821.3	22688.6	22993.9
42.5°	235.2	258.5	299.9	357.2	416.5	515.2	802.5	5838.7	19789.1	23938.3	24087.2
45°	190.3	213.7	256.7	314.2	445.3	427.3	621.2	5054.1	20570.1	24977.8	25026.2
47.5°	150.8	172.3	217.2	296.2	414.7	341.1	443.5	4438.3	21225.4	25789.3	25661.8
50°	116.7	134.7	181.4	339.4	362.7	281.9	335.7	4233.6	21812.5	26292.0	25961.7
52.5°	91.6	107.7	149.0	317.8	281.9	233.4	281.9	4425.7	22616.8	26708.6	26130.5
55°	73.6	89.8	116.7	181.4	192.1	197.5	240.6	4605.2	24004.7	27685.2	27126.9
57.5°	61.0	77.2	95.1	127.4	145.4	166.9	213.7	4624.9	25640.3	29308.4	28780.4
59°	55.6	70.1	86.2	113.1	127.4	152.6	201.1	4517.3	26216.6	29899.0	29635.0
60°	52.1	66.4	80.8	104.1	118.5	143.6	193.9	4414.9	26241.7	29877.4	29999.6
62.5°	44.9	59.2	71.8	87.9	100.5	122.1	174.2	4036.1	25178.9	28898.9	29780.5
65°	39.5	52.1	64.6	75.4	86.2	109.5	158.0	3344.8	23363.7	27320.8	28281.3
67.5°	35.9	44.9	59.2	66.4	77.2	97.0	140.0	2384.3	21096.1	25390.7	26013.7
70°	32.3	43.1	53.8	61.0	70.1	84.4	120.3	1369.9	17814.1	22564.7	23008.2
72.5°	30.6	41.3	48.4	57.5	62.9	75.4	109.5	644.5	13043.6	18076.2	19234.2
75°	26.9	37.7	44.9	53.8	59.2	68.2	93.3	308.8	8675.4	13081.4	14397.4
77.5°	16.1	30.6	41.3	48.4	52.1	59.2	77.2	177.7	5537.0	9054.3	10664.7
80°	0.0	10.8	30.6	41.3	44.9	50.3	59.2	140.0	2962.4	5172.6	6208.6
82.5°	0.0	0.0	21.5	32.3	30.6	34.1	44.9	87.9	1335.7	3380.8	3809.8
85°	0.0	0.0	7.2	25.2	21.5	16.1	30.6	30.6	292.7	1711.1	2134.7
87.5°	0.0	0.0	0.0	1.8	10.8	7.2	12.6	3.6	1.8	127.4	517.1
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12345.2	12345.2	12345.2	12345.2	12345.2	12345.2	12345.2	12345.2	12345.2	12345.2
2.5°	13955.7	14088.6	14313.0	14419.0	14366.9	14146.0	13882.1	13612.8	13454.8	13517.7
5°	14813.9	15498.0	15892.9	16024.0	15805.0	15309.5	14661.3	13806.7	13503.2	13420.7
7.5°	14813.9	16101.2	16916.3	17060.0	16571.7	15600.3	14384.9	13050.9	12607.4	12445.8
10°	14293.3	16045.6	17182.1	17410.1	16727.9	15275.3	13646.9	12124.4	11598.3	11431.4
12.5°	13706.1	15593.2	16790.7	17104.9	16544.8	14952.2	13135.2	11497.8	10878.4	10733.0
15°	13345.3	15036.6	16027.6	16255.7	16018.7	14763.6	13013.2	11309.3	10580.3	10440.3
17.5°	13474.6	14605.6	14963.0	15095.8	15255.6	14697.2	13345.3	11722.2	10799.4	10666.5
20°	13961.1	14151.4	13966.5	14133.4	14564.4	14761.9	14137.1	12720.5	11612.8	11434.9
22.5°	14787.0	13916.2	13397.3	13463.8	13988.0	14975.6	15347.2	14146.0	12867.7	12645.1
25°	15749.4	14106.5	13081.4	13022.1	13560.7	15257.4	16453.2	15697.3	14352.5	14106.5
27.5°	16959.5	14533.8	13016.7	12957.5	13411.8	15521.4	17372.4	17230.6	15916.3	15496.2
30°	17893.1	14953.9	13208.9	13072.4	13560.7	15704.5	18110.3	18532.2	17162.4	16884.0
32.5°	18562.8	15449.5	13521.2	13323.7	13980.9	16020.5	18679.5	19724.4	18315.0	17893.1
35°	19072.7	15988.2	14025.8	13700.8	14559.0	16499.9	19212.7	20993.7	19541.3	19079.9
37.5°	19550.2	16744.0	14813.9	14426.1	15465.6	17271.8	19776.5	22433.7	20913.0	20361.8
40°	20216.4	17600.4	16029.4	15684.7	16989.9	18324.0	20480.3	23934.6	22473.2	21780.1
42.5°	20882.4	18519.6	17273.7	17367.0	18891.3	19602.3	21388.7	25521.8	24013.6	23273.9
45°	21491.1	19467.7	19045.8	19476.6	20656.2	21004.5	22291.8	26439.3	25243.4	24529.0
47.5°	22033.3	20652.6	20807.0	21954.3	22663.5	22273.9	22966.9	27231.0	26159.2	25529.0
50°	22663.5	22185.9	23128.5	24751.6	24974.1	23422.9	23580.9	28168.2	27229.2	26722.9
52.5°	23353.0	23801.8	25699.5	27130.5	27058.7	24670.7	24198.5	29218.5	28696.0	28220.3
55°	24135.7	25107.1	27963.6	29356.8	29295.8	26064.0	25221.9	30516.7	30534.5	30103.7
57.5°	25297.4	26231.0	29500.4	31157.6	31259.9	27672.6	26956.3	31970.9	32197.1	31909.9
59°	26130.5	26959.9	30109.0	31909.9	32326.4	28916.9	28223.8	32814.8	32665.7	32403.6
60°	26748.1	27423.1	30410.7	32303.1	32945.8	29760.7	29159.3	33310.3	32721.4	32403.6
62.5°	28275.9	28432.1	30954.7	32748.3	33658.6	31635.2	31791.4	34154.1	32335.4	31816.4
65°	28988.7	29069.5	30947.5	31951.2	32969.1	33094.8	34179.2	34179.2	31392.8	30595.7
67.5°	28690.6	28301.1	29412.4	29308.4	30324.5	32227.6	35077.0	32926.0	29590.1	28559.6
70°	26266.8	24767.7	24274.0	24318.9	25096.3	28031.8	33299.5	29238.3	26178.9	24974.1
72.5°	21855.5	18259.4	17040.2	18431.7	18634.6	21543.2	28378.3	22018.9	19306.0	18176.7
75°	17578.9	12871.3	10889.1	12357.8	12702.6	15765.5	21952.5	13713.3	11276.9	10397.2
77.5°	12628.9	9239.2	7813.6	7711.3	8156.5	9998.7	15577.0	6901.6	5756.1	5371.9
80°	7174.5	6081.0	6547.8	6178.0	6402.4	6251.6	7400.7	3027.1	2479.5	2317.9
82.5°	4330.6	3594.4	3892.5	3240.8	4100.8	3571.1	2851.1	969.6	842.0	800.8
85°	2817.0	1964.2	1023.4	685.8	1413.0	2282.0	637.4	263.9	202.9	161.6
87.5°	971.3	500.9	50.3	21.5	150.8	425.5	23.4	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)