

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: P324582

Luminaire Tested: **GAN-SA8D-760-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324582
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-SA8D-760-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 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: 46096 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

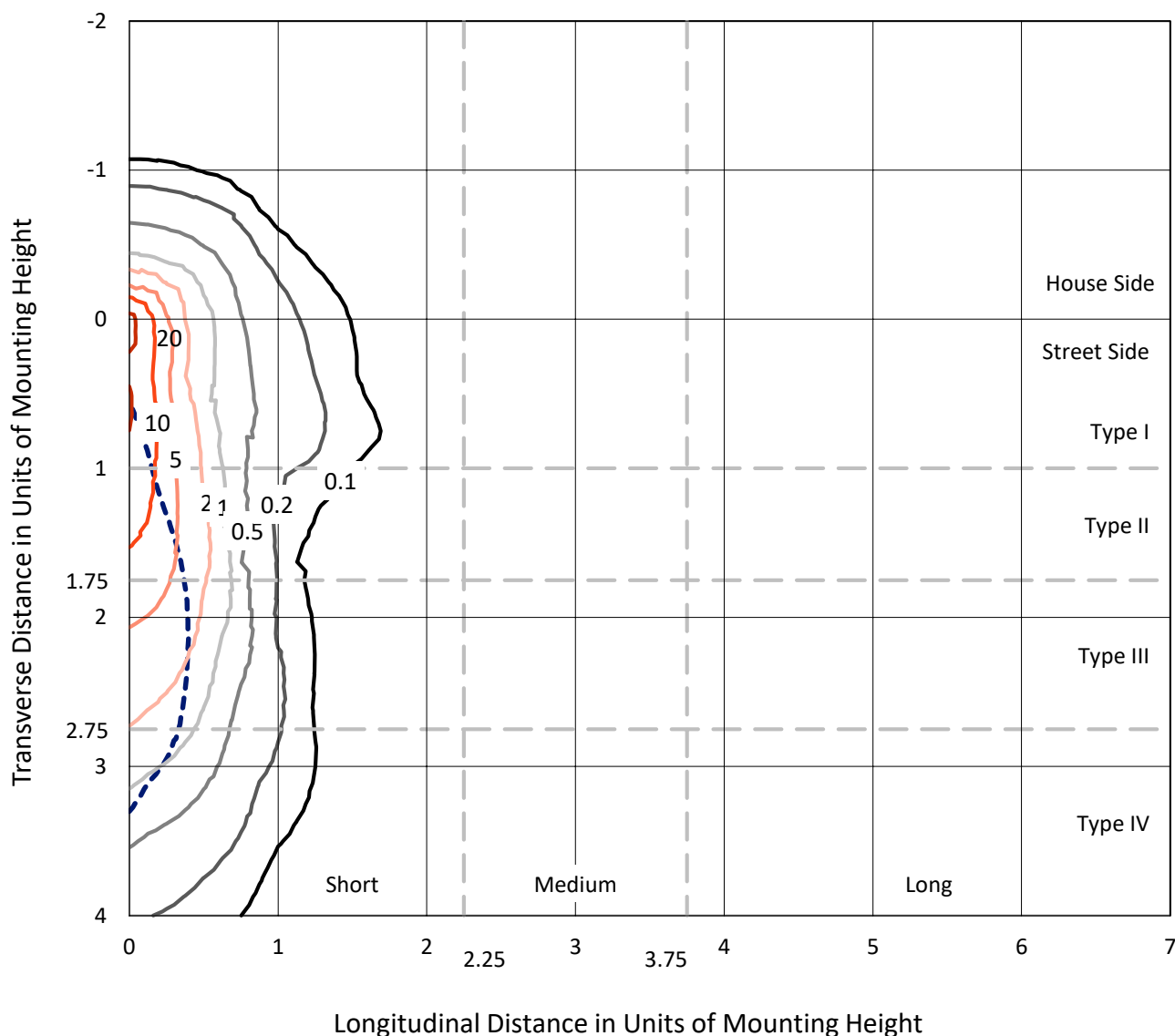
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

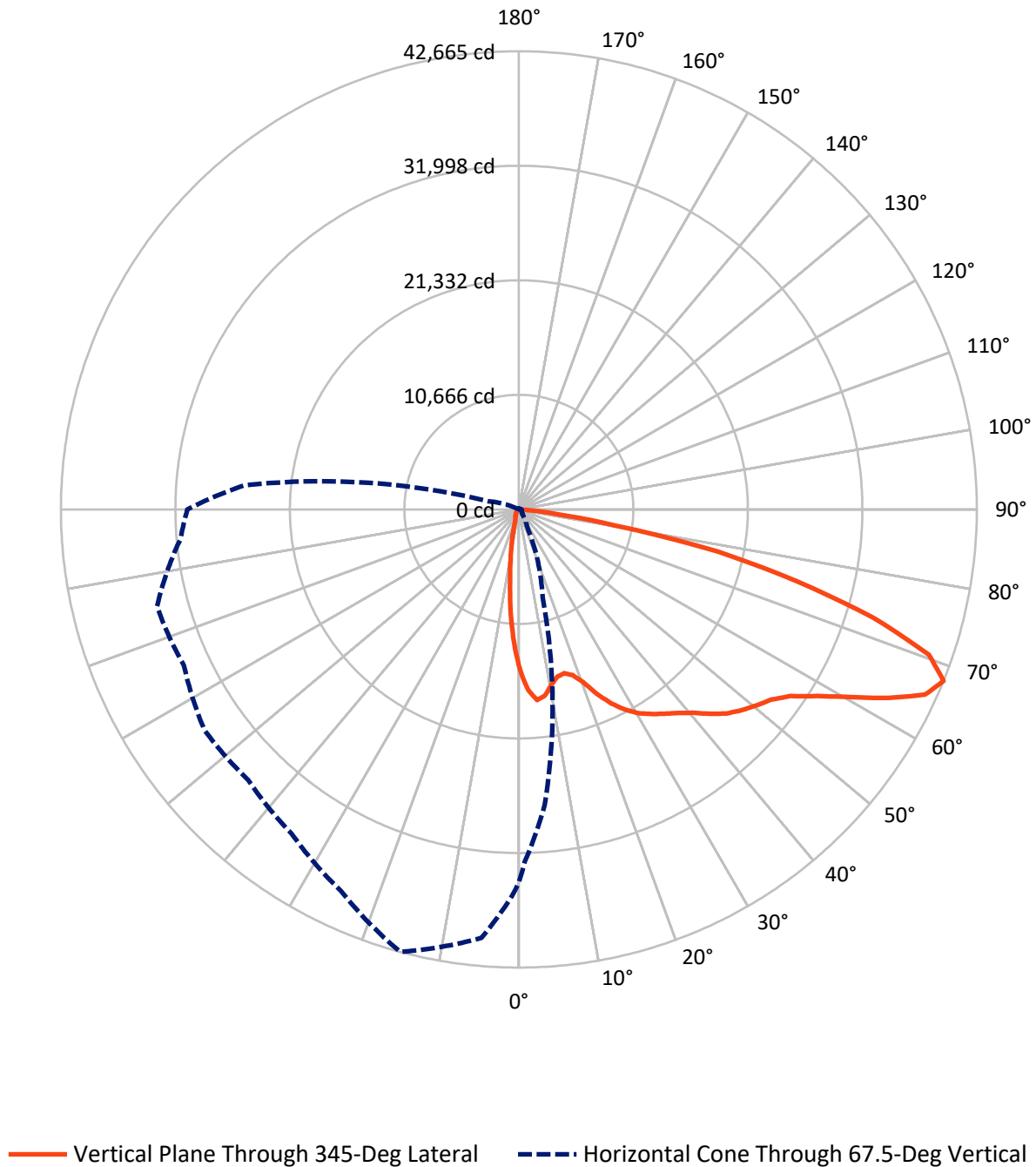
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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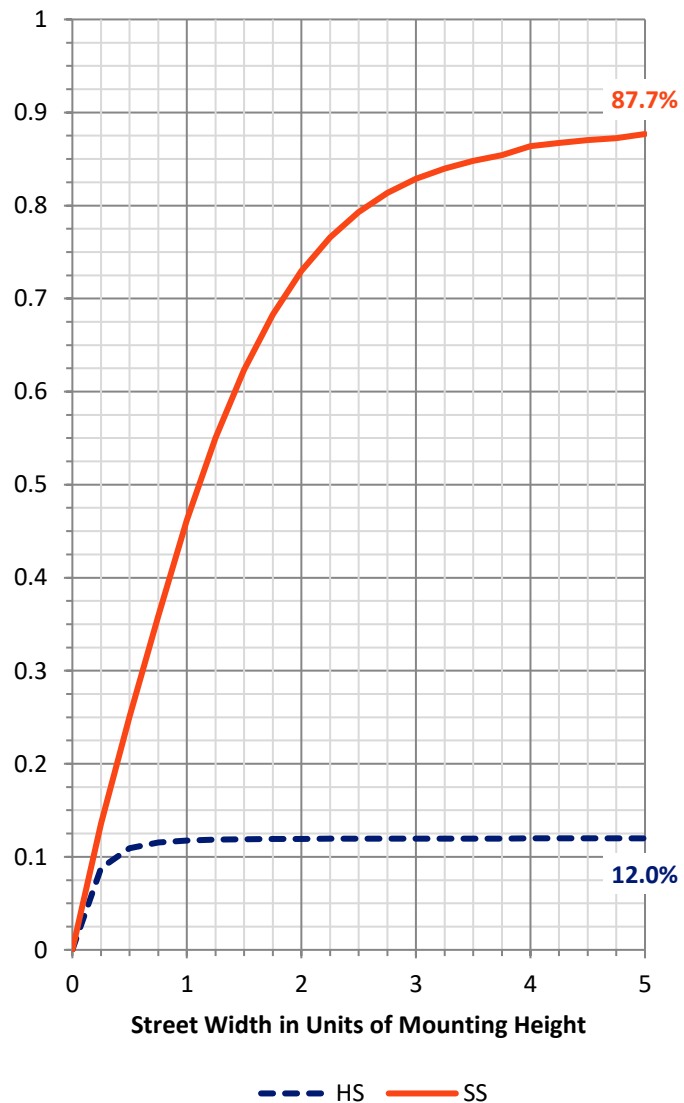
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5579.1	0.0	5579.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	40516.9	0.0	40516.9
	% Fixture	87.9	0.0	87.9
Total	Lumens	46096.0	0.0	46096.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1152.4	2.5
10°-20°	2293.9	5.0
20°-30°	3257.4	7.1
30°-40°	4811.3	10.4
40°-50°	6938.9	15.1
50°-60°	9740.8	21.1
60°-70°	11355.0	24.6
70°-80°	5804.9	12.6
80°-90°	741.4	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°	46096.0	100.0
0°-180°	46096.0	100.0

Coefficient of Utilization



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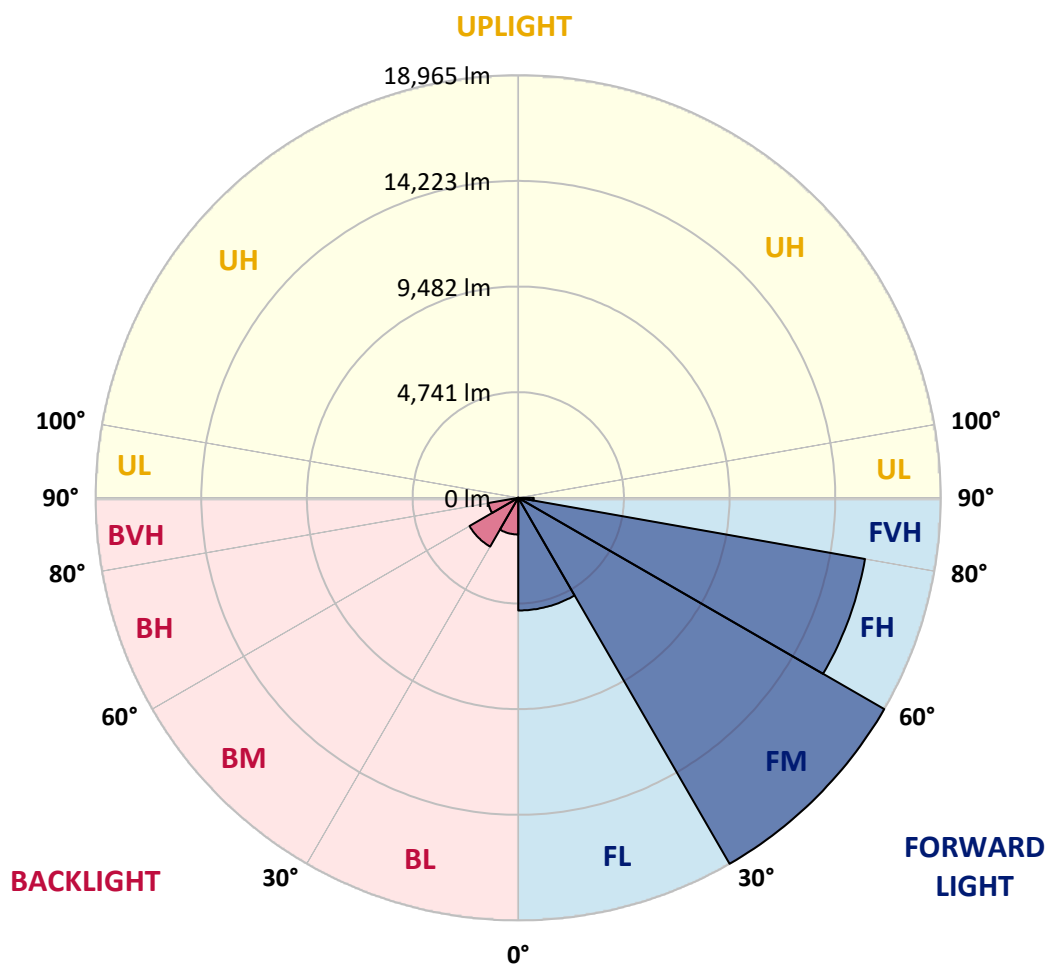
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5055.8	11.0			
FM	(30°-60°)	18964.7	41.1			
FH	(60°-80°)	15800.1	34.3			G5
FVH	(80°-90°)	696.3	1.5			G4/750
BL	(0°-30°)	1647.9	3.6	B3/2500		
BM	(30°-60°)	2526.4	5.5	B3/5000		
BH	(60°-80°)	1359.8	2.9	B3/2500		G3/2500
BVH	(80°-90°)	45.0	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°	15015.7	15015.7	15015.7	15015.7	15015.7	15015.7	15015.7	15015.7	15015.7	15015.7	15015.7
2.5°	16441.7	16315.0	16175.3	15718.9	15295.2	14810.4	14415.1	14140.0	13795.0	13347.3	13233.7
5°	16323.8	16188.4	15749.4	14734.0	13845.2	12980.4	12146.2	11657.0	11049.9	10434.1	10281.2
7.5°	15138.0	14996.0	14362.7	12971.7	11775.0	10525.8	9442.7	8772.3	8086.5	7523.1	7224.0
10°	13904.1	13749.1	13037.2	11349.1	9875.1	8746.0	7951.2	7311.3	6662.7	6060.0	5579.6
12.5°	13054.7	12851.6	12078.5	10165.5	8881.4	8114.9	7372.4	6605.9	5728.1	5081.7	4553.2
15°	12698.7	12467.2	11650.5	9709.1	8529.9	7630.1	6662.7	5721.5	4692.9	3952.6	3467.8
17.5°	12973.9	12672.5	11796.8	9678.5	8088.7	6863.6	5640.7	4535.7	3419.8	2670.8	2325.7
20°	13908.5	13513.2	12401.7	9669.8	7553.7	5953.0	4402.5	3153.4	2253.7	1812.5	1631.3
22.5°	15380.4	14858.5	13270.8	9739.7	7001.2	4996.5	3179.6	2142.3	1692.4	1463.1	1356.1
25°	17158.0	16553.1	14522.2	9986.4	6516.4	4066.2	2310.4	1692.4	1428.2	1260.0	1170.5
27.5°	18848.2	18356.9	16103.2	10342.4	6140.8	3315.0	1875.9	1434.7	1220.7	1109.4	1037.3
30°	20536.3	19918.3	17725.8	10766.0	5688.8	2806.2	1648.8	1308.1	1094.1	976.2	930.3
32.5°	21763.6	21250.4	18996.7	11071.8	5206.1	2474.2	1474.1	1196.7	1022.0	901.9	834.2
35°	23207.1	22626.2	20086.4	11139.5	4896.0	2264.6	1325.6	1076.6	886.6	779.6	707.5
37.5°	24766.3	24043.4	21344.3	10991.0	4653.6	2161.9	1214.2	1022.0	827.7	718.5	642.0
40°	26491.5	25674.7	22551.9	10777.0	4415.6	2127.0	1129.0	980.5	781.8	670.4	591.8
42.5°	28308.4	27345.3	23598.0	10552.0	4264.9	2006.9	1120.3	939.0	746.9	626.7	548.1
45°	29834.8	28858.7	24672.4	10477.8	4157.9	1875.9	1157.4	910.6	722.8	591.8	515.4
47.5°	31051.2	30127.5	25773.0	10643.8	4096.8	1755.8	1054.8	947.8	709.7	561.2	487.0
50°	32503.4	31457.4	27323.5	11139.5	4007.2	1635.7	954.3	1085.3	709.7	541.6	463.0
52.5°	34324.7	33289.6	29053.0	11908.2	3828.2	1469.7	858.2	1087.5	716.3	515.4	432.4
55°	36615.5	35864.3	31522.9	12751.1	3542.1	1225.1	742.5	934.7	690.1	467.3	404.0
57.5°	38812.4	38198.7	33774.4	13327.6	3159.9	956.5	646.4	753.4	631.1	410.6	360.3
59°	39412.9	38742.5	34599.8	13353.8	2873.9	834.2	598.4	622.4	618.0	384.3	334.1
60°	39412.9	38701.0	34837.9	13214.1	2666.4	766.5	567.8	554.7	644.2	366.9	318.8
62.5°	38698.8	37698.6	34064.8	12268.5	2175.0	653.0	495.7	458.6	578.7	329.8	281.7
65°	37213.8	35757.3	31431.2	10558.6	1939.2	598.4	428.0	375.6	401.8	290.4	246.8
67.5°	34737.4	32763.3	27633.6	8529.9	1845.3	583.1	369.1	318.8	303.5	249.0	216.2
70°	30376.4	28186.1	23023.6	6706.4	1764.5	576.5	310.1	268.6	244.6	209.6	183.4
72.5°	22108.6	19824.4	16345.6	5243.3	1716.5	589.6	249.0	224.9	200.9	163.8	141.9
75°	12646.3	11150.4	9187.2	3463.5	1463.1	563.4	192.2	187.8	144.1	117.9	98.3
77.5°	6533.9	6335.2	5505.3	1329.9	701.0	246.8	126.7	109.2	85.2	72.1	59.0
80°	2819.3	2788.7	2413.1	384.3	185.6	137.6	72.1	45.9	39.3	30.6	24.0
82.5°	974.0	974.0	858.2	128.8	83.0	67.7	8.7	0.0	0.0	0.0	0.0
85°	196.5	220.6	155.0	0.0	28.4	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°	15015.7	15015.7	15015.7	15015.7	15015.7	15015.7	15015.7	15015.7	15015.7	15015.7	15015.7
2.5°	13096.1	12831.9	12814.4	12648.5	12441.0	12347.1	12292.5	12388.6	12506.5	12519.6	12696.5
5°	10165.5	9888.2	10003.9	9709.1	9768.1	9709.1	9613.0	9630.5	9682.9	9519.1	9722.2
7.5°	7138.8	6929.1	7062.4	6983.7	7088.6	7130.0	7071.1	6983.7	6726.0	6695.5	6872.4
10°	5380.8	5142.8	5000.9	4852.4	4885.1	4952.8	4931.0	4867.7	4703.9	4712.6	4882.9
12.5°	4323.9	4057.5	3775.8	3411.1	3321.5	3371.8	3321.5	3284.4	3127.2	3140.3	3291.0
15°	3280.0	3061.7	2766.9	2474.2	2314.8	2330.1	2190.3	2092.1	1993.8	1875.9	1967.6
17.5°	2214.4	2081.1	1993.8	1906.4	1716.5	1672.8	1495.9	1305.9	1231.7	1177.1	1216.4
20°	1568.0	1495.9	1461.0	1456.6	1347.4	1292.8	1120.3	1002.4	965.2	954.3	978.3
22.5°	1310.3	1257.9	1207.6	1179.2	1124.6	1061.3	930.3	871.3	845.1	832.0	849.5
25°	1139.9	1100.6	1048.2	1000.2	978.3	910.6	816.7	773.1	755.6	742.5	751.2
27.5°	1013.3	978.3	917.2	886.6	869.1	810.2	729.4	694.4	679.2	674.8	672.6
30°	912.8	880.1	823.3	788.3	757.8	705.4	657.3	622.4	607.1	602.7	598.4
32.5°	812.4	786.2	749.0	714.1	681.3	633.3	591.8	563.4	539.4	535.0	532.8
35°	685.7	659.5	639.8	637.7	607.1	561.2	530.7	493.5	473.9	467.3	469.5
37.5°	609.3	574.3	530.7	545.9	537.2	504.5	463.0	425.8	406.2	401.8	401.8
40°	561.2	524.1	473.9	447.7	473.9	467.3	401.8	364.7	345.0	342.9	338.5
42.5°	515.4	478.2	421.5	377.8	390.9	410.6	347.2	312.3	292.6	288.3	281.7
45°	482.6	443.3	380.0	329.8	303.5	345.0	297.0	253.3	242.4	233.7	229.3
47.5°	452.0	414.9	342.9	286.1	242.4	249.0	238.0	207.5	194.4	185.6	183.4
50°	425.8	386.5	310.1	244.6	200.9	183.4	192.2	163.8	152.9	144.1	139.8
52.5°	395.3	358.1	275.2	211.8	168.2	144.1	146.3	128.8	117.9	111.4	109.2
55°	371.2	334.1	246.8	185.6	148.5	117.9	104.8	100.5	93.9	89.5	87.4
57.5°	338.5	303.5	218.4	157.2	126.7	96.1	80.8	80.8	78.6	74.2	72.1
59°	318.8	288.3	200.9	141.9	115.7	83.0	72.1	74.2	72.1	67.7	65.5
60°	303.5	275.2	187.8	131.0	109.2	76.4	65.5	69.9	67.7	63.3	61.1
62.5°	268.6	249.0	161.6	109.2	96.1	61.1	54.6	59.0	59.0	56.8	54.6
65°	235.8	214.0	137.6	91.7	89.5	52.4	43.7	52.4	54.6	50.2	45.9
67.5°	205.3	183.4	120.1	74.2	83.0	41.5	32.8	43.7	59.0	45.9	41.5
70°	174.7	152.9	93.9	59.0	87.4	28.4	26.2	39.3	69.9	50.2	39.3
72.5°	135.4	117.9	65.5	43.7	93.9	19.7	19.7	32.8	78.6	54.6	37.1
75°	93.9	76.4	39.3	26.2	76.4	13.1	13.1	30.6	74.2	50.2	34.9
77.5°	54.6	41.5	13.1	2.2	39.3	0.0	2.2	21.8	52.4	30.6	15.3
80°	19.7	8.7	0.0	0.0	24.0	0.0	0.0	0.0	4.4	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°	15015.7	15015.7	15015.7	15015.7	15015.7	15015.7	15015.7	15015.7	15015.7	15015.7	15015.7
2.5°	12742.4	13037.2	13301.4	13701.0	14174.9	14720.9	15190.4	15694.8	16168.7	16365.3	16500.7
5°	9763.7	10128.4	10554.2	11141.7	11923.5	12886.5	13788.4	14808.2	15904.5	16452.6	16968.0
7.5°	6902.9	7274.2	7802.7	8427.2	9372.8	10519.3	11698.5	13107.1	14592.0	15459.0	16312.9
10°	4963.7	5420.1	5913.7	6767.5	7728.4	8815.9	10030.1	11602.4	13257.7	14218.6	15247.2
12.5°	3378.3	3898.1	4644.9	5601.4	6730.4	7796.1	8850.9	10351.1	12272.9	13225.0	14327.8
15°	2026.5	2314.8	3105.3	4212.5	5597.0	6924.8	8080.0	9584.6	11633.0	12799.1	13945.6
17.5°	1249.1	1382.3	1812.5	2721.0	4175.4	5854.7	7438.0	9324.8	11724.7	13144.2	14371.5
20°	995.8	1048.2	1185.8	1607.3	2766.9	4675.5	6715.1	9272.3	12473.8	14220.8	15537.6
22.5°	864.8	915.0	1006.7	1168.3	1740.5	3500.6	6029.4	9320.4	13548.2	15834.6	17372.0
25°	762.1	805.8	893.2	1026.4	1275.3	2465.5	5295.7	9534.4	14948.0	17837.1	19470.6
27.5°	681.3	718.5	799.3	921.6	1094.1	1720.8	4463.7	9794.3	16607.7	19885.5	21497.2
30°	607.1	639.8	711.9	825.5	949.9	1323.4	3550.8	9971.1	18269.5	21497.2	22945.0
32.5°	543.8	567.8	633.3	729.4	825.5	1054.8	2699.2	9942.8	19503.4	22838.0	23986.7
35°	478.2	502.3	559.0	642.0	718.5	871.3	2122.6	9412.1	20577.8	24229.1	25179.0
37.5°	406.2	436.8	491.4	565.6	618.0	766.5	1716.5	8772.3	21667.5	25818.9	26508.9
40°	345.0	375.6	423.7	504.5	537.2	727.2	1319.0	7992.6	22892.6	27596.5	27967.7
42.5°	286.1	314.5	364.7	434.6	506.6	626.7	976.2	7101.7	24069.6	29116.4	29297.6
45°	231.5	259.9	312.3	382.2	541.6	519.7	755.6	6147.3	25019.6	30380.8	30439.7
47.5°	183.4	209.6	264.2	360.3	504.5	414.9	539.4	5398.3	25816.7	31367.8	31212.8
50°	141.9	163.8	220.6	412.7	441.1	342.9	408.4	5149.4	26530.8	31979.3	31577.5
52.5°	111.4	131.0	181.3	386.5	342.9	283.9	342.9	5383.0	27509.1	32485.9	31782.8
55°	89.5	109.2	141.9	220.6	233.7	240.2	292.6	5601.4	29197.2	33673.9	32994.8
57.5°	74.2	93.9	115.7	155.0	176.9	203.1	259.9	5625.4	31186.6	35648.1	35006.0
59°	67.7	85.2	104.8	137.6	155.0	185.6	244.6	5494.4	31887.6	36366.5	36045.5
60°	63.3	80.8	98.3	126.7	144.1	174.7	235.8	5369.9	31918.2	36340.3	36488.8
62.5°	54.6	72.1	87.4	107.0	122.3	148.5	211.8	4909.1	30625.4	35150.2	36222.4
65°	48.0	63.3	78.6	91.7	104.8	133.2	192.2	4068.4	28417.6	33230.6	34398.9
67.5°	43.7	54.6	72.1	80.8	93.9	117.9	170.3	2900.1	25659.4	30883.0	31640.8
70°	39.3	52.4	65.5	74.2	85.2	102.6	146.3	1666.2	21667.5	27445.8	27985.2
72.5°	37.1	50.2	59.0	69.9	76.4	91.7	133.2	784.0	15865.2	21986.3	23394.9
75°	32.8	45.9	54.6	65.5	72.1	83.0	113.6	375.6	10552.0	15911.0	17511.7
77.5°	19.7	37.1	50.2	59.0	63.3	72.1	93.9	216.2	6734.8	11012.8	12971.7
80°	0.0	13.1	37.1	50.2	54.6	61.1	72.1	170.3	3603.2	6291.5	7551.5
82.5°	0.0	0.0	26.2	39.3	37.1	41.5	54.6	107.0	1624.7	4112.1	4634.0
85°	0.0	0.0	8.7	30.6	26.2	19.7	37.1	37.1	356.0	2081.1	2596.5
87.5°	0.0	0.0	0.0	2.2	13.1	8.7	15.3	4.4	2.2	155.0	628.9
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°	15015.7	15015.7	15015.7	15015.7	15015.7	15015.7	15015.7	15015.7	15015.7	15015.7
2.5°	16974.5	17136.1	17409.1	17538.0	17474.6	17206.0	16885.0	16557.4	16365.3	16441.7
5°	18018.4	18850.4	19330.8	19490.3	19223.8	18621.1	17832.8	16793.3	16424.2	16323.8
7.5°	18018.4	19584.2	20575.6	20750.3	20156.3	18974.9	17496.5	15873.9	15334.5	15138.0
10°	17385.1	19516.5	20898.8	21176.1	20346.3	18579.6	16598.9	14747.1	14107.2	13904.1
12.5°	16671.0	18966.1	20422.7	20804.9	20123.6	18186.5	15976.6	13984.9	13231.5	13054.7
15°	16232.1	18289.2	19494.6	19772.0	19483.7	17957.2	15828.1	13755.6	12869.0	12698.7
17.5°	16389.3	17765.1	18199.6	18361.2	18555.6	17876.4	16232.1	14257.9	13135.5	12973.9
20°	16981.1	17212.6	16987.6	17190.7	17714.8	17955.1	17195.1	15472.1	14124.7	13908.5
22.5°	17985.6	16926.5	16295.4	16376.2	17013.8	18214.9	18667.0	17206.0	15651.2	15380.4
25°	19156.1	17158.0	15911.0	15839.0	16494.1	18557.8	20012.2	19092.8	17457.2	17158.0
27.5°	20628.0	17677.7	15832.4	15760.4	16312.9	18878.8	21130.3	20957.8	19359.2	18848.2
30°	21763.6	18188.7	16066.1	15900.1	16494.1	19101.5	22027.8	22541.0	20874.8	20536.3
32.5°	22578.1	18791.4	16446.1	16205.8	17005.1	19485.9	22720.1	23991.0	22276.8	21763.6
35°	23198.3	19446.6	17059.7	16664.4	17708.3	20069.0	23368.7	25535.0	23768.3	23207.1
37.5°	23779.2	20366.0	18018.4	17546.7	18811.1	21008.0	24054.4	27286.4	25436.7	24766.3
40°	24589.4	21407.6	19496.8	19077.5	20665.1	22287.7	24910.4	29112.0	27334.4	26491.5
42.5°	25399.6	22525.7	21010.2	21123.7	22977.8	23842.5	26015.4	31042.5	29208.1	28308.4
45°	26139.9	23678.8	23165.6	23689.7	25124.4	25548.1	27113.8	32158.4	30704.0	29834.8
47.5°	26799.4	25120.0	25307.9	26703.3	27565.9	27092.0	27934.9	33121.4	31817.7	31051.2
50°	27565.9	26985.0	28131.5	30105.6	30376.4	28489.6	28681.8	34261.4	33119.2	32503.4
52.5°	28404.5	28950.4	31258.7	32999.1	32911.8	30007.4	29433.0	35538.9	34903.4	34324.7
55°	29356.6	30538.0	34012.4	35707.0	35632.8	31702.0	30677.8	37117.7	37139.6	36615.5
57.5°	30769.5	31905.1	35881.7	37897.4	38021.8	33658.6	32787.3	38886.6	39161.8	38812.4
59°	31782.8	32791.7	36622.0	38812.4	39319.0	35172.0	34329.1	39913.0	39731.7	39412.9
60°	32534.0	33355.1	36988.9	39290.6	40072.4	36198.4	35466.8	40515.7	39799.4	39412.9
62.5°	34392.4	34582.4	37650.6	39832.2	40939.4	38478.2	38668.2	41542.1	39329.9	38698.8
65°	35259.3	35357.6	37641.9	38862.6	40100.8	40253.7	41572.7	41572.7	38183.4	37213.8
67.5°	34896.8	34423.0	35774.7	35648.1	36884.1	39198.9	42664.6	40048.4	35990.9	34737.4
70°	31948.7	30125.3	29524.7	29579.3	30524.9	34095.4	40502.6	35562.9	31841.7	30376.4
72.5°	26583.2	22209.1	20726.3	22418.7	22665.5	26203.2	34516.9	26781.9	23482.2	22108.6
75°	21381.4	15655.5	13244.6	15031.0	15450.3	19175.8	26701.1	16679.7	13716.3	12646.3
77.5°	15360.7	11237.7	9503.8	9379.3	9920.9	12161.5	18946.5	8394.5	7001.2	6533.9
80°	8726.4	7396.5	7964.3	7514.4	7787.4	7603.9	9001.6	3681.9	3015.8	2819.3
82.5°	5267.3	4371.9	4734.4	3941.7	4987.8	4343.5	3467.8	1179.2	1024.2	974.0
85°	3426.4	2389.1	1244.8	834.2	1718.6	2775.6	775.2	321.0	246.8	196.5
87.5°	1181.4	609.3	61.1	26.2	183.4	517.6	28.4	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)