

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: P324449

Luminaire Tested: **GAN-SA5C-730-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324449
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-SA5C-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA 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: 23866 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

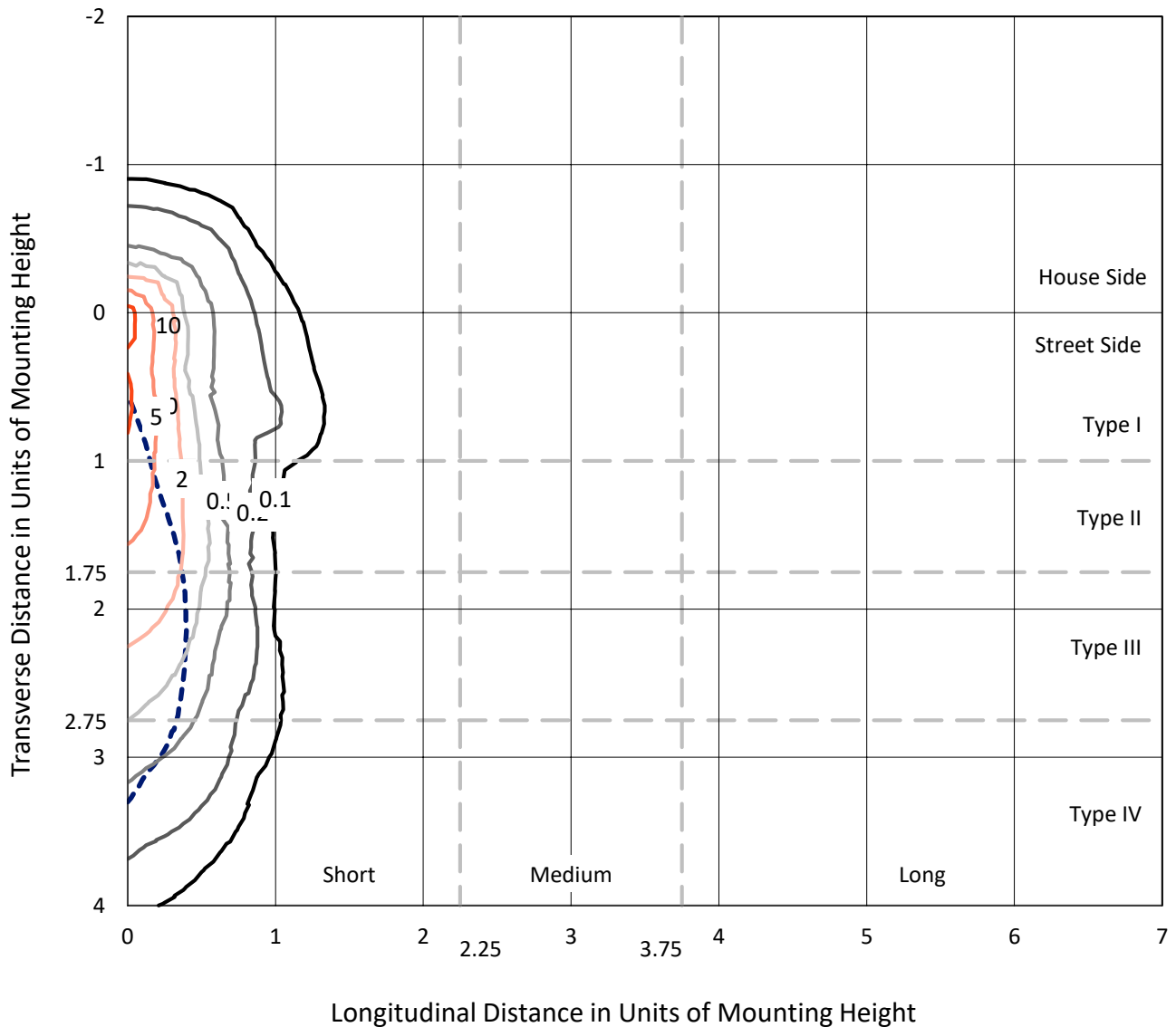
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

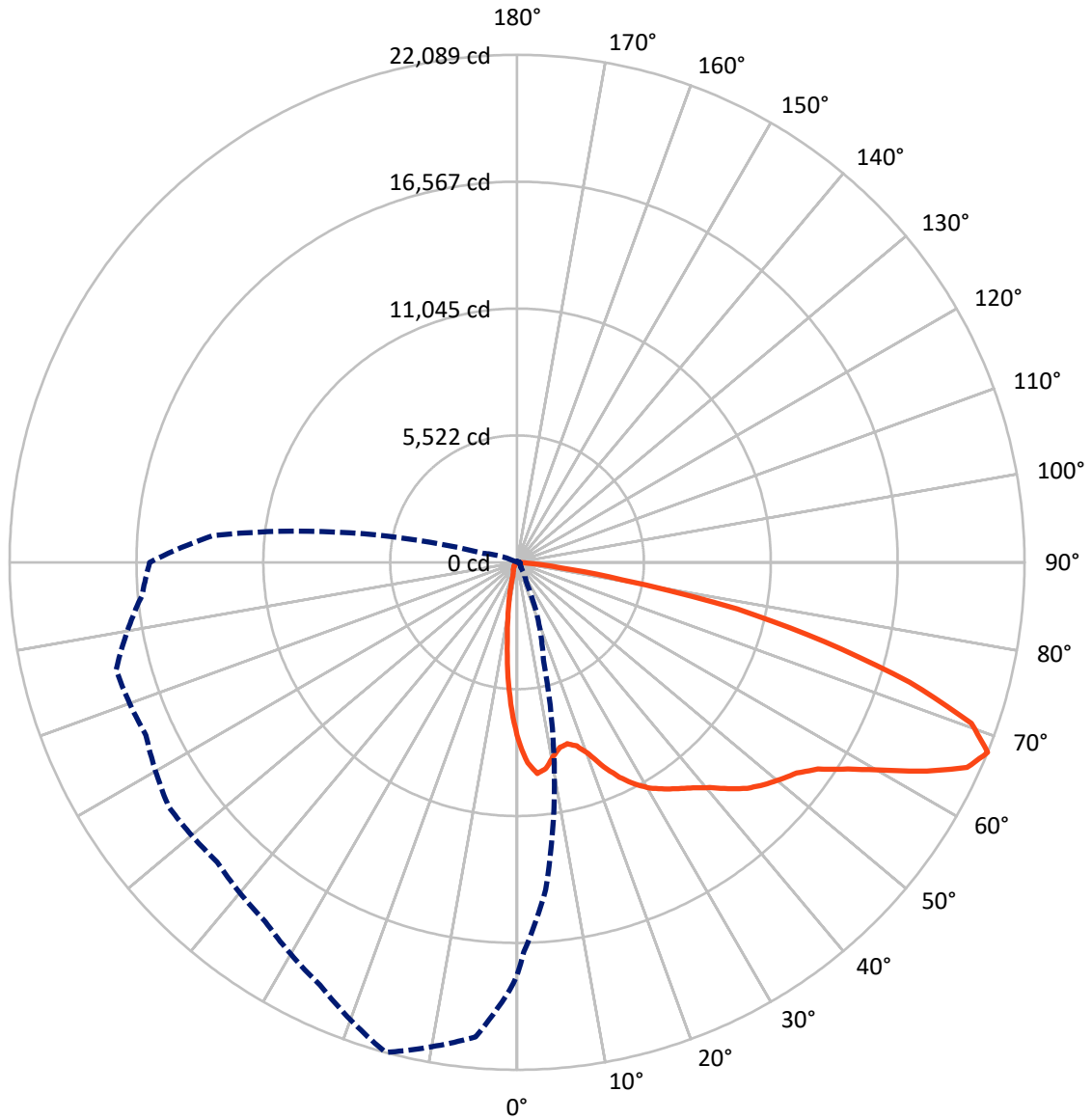
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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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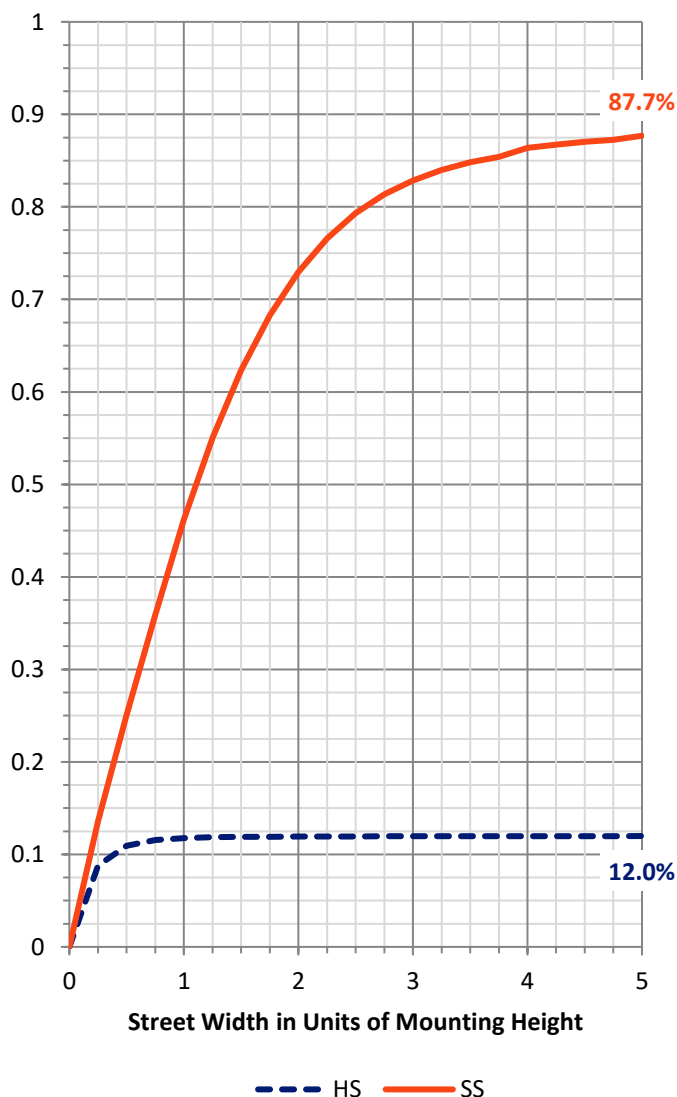
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2888.6	0.0	2888.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	20977.4	0.0	20977.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	23866.0	0.0	23866.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.7	2.5
10°-20°	1187.7	5.0
20°-30°	1686.5	7.1
30°-40°	2491.0	10.4
40°-50°	3592.6	15.1
50°-60°	5043.3	21.1
60°-70°	5879.0	24.6
70°-80°	3005.5	12.6
80°-90°	383.8	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°	23866.0	100.0
0°-180°	23866.0	100.0

Coefficient of Utilization

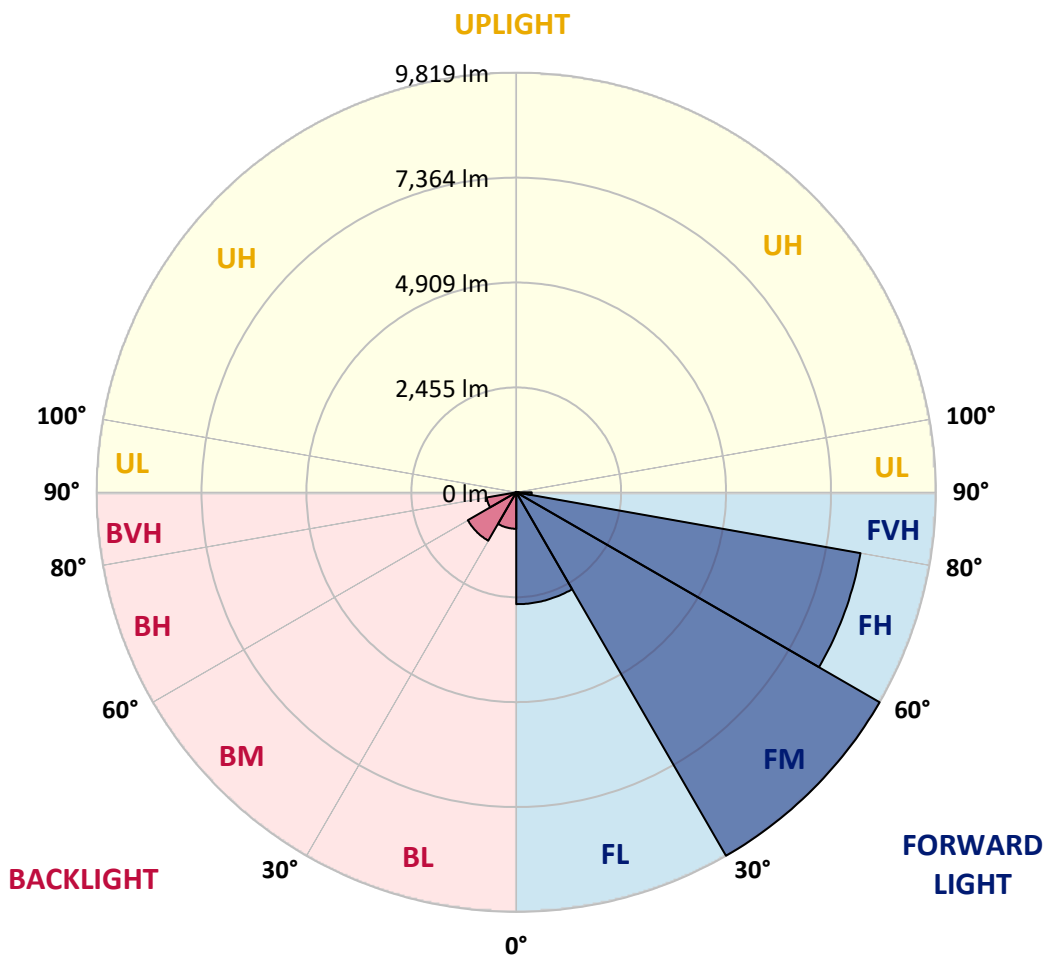


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2617.6	11.0			
FM (30°-60°)	9818.9	41.1			
FH (60°-80°)	8180.4	34.3			G4/12000
FVH (80°-90°)	360.5	1.5			G3/500
BL (0°-30°)	853.2	3.6	B2/1000		
BM (30°-60°)	1308.0	5.5	B2/2500		
BH (60°-80°)	704.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	23.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3
2.5°	8512.6	8447.0	8374.7	8138.4	7919.0	7668.0	7463.4	7320.9	7142.3	6910.5	6851.7
5°	8451.6	8381.5	8154.2	7628.5	7168.3	6720.5	6288.6	6035.4	5721.1	5402.2	5323.1
7.5°	7837.6	7764.1	7436.2	6716.0	6096.4	5449.7	4888.9	4541.8	4186.8	3895.1	3740.2
10°	7198.8	7118.5	6749.9	5876.0	5112.8	4528.2	4116.7	3785.4	3449.6	3137.5	2888.8
12.5°	6759.0	6653.8	6253.6	5263.1	4598.3	4201.5	3817.1	3420.2	2965.7	2631.0	2357.4
15°	6574.7	6454.8	6032.0	5026.8	4416.3	3950.5	3449.6	2962.3	2429.8	2046.5	1795.5
17.5°	6717.2	6561.1	6107.7	5011.0	4187.9	3553.6	2920.5	2348.3	1770.6	1382.8	1204.1
20°	7201.1	6996.4	6420.9	5006.5	3910.9	3082.1	2279.4	1632.6	1166.8	938.4	844.6
22.5°	7963.1	7692.9	6870.9	5042.7	3624.8	2586.9	1646.2	1109.2	876.2	757.5	702.1
25°	8883.5	8570.3	7518.8	5170.4	3373.8	2105.3	1196.2	876.2	739.4	652.4	606.0
27.5°	9758.6	9504.2	8337.4	5354.7	3179.4	1716.3	971.2	742.8	632.0	574.4	537.1
30°	10632.6	10312.6	9177.4	5574.1	2945.3	1452.9	853.6	677.3	566.5	505.4	481.7
32.5°	11268.0	11002.3	9835.5	5732.4	2695.5	1281.0	763.2	619.6	529.1	467.0	431.9
35°	12015.3	11714.6	10399.7	5767.4	2534.9	1172.5	686.3	557.4	459.0	403.6	366.3
37.5°	12822.6	12448.4	11050.9	5690.5	2409.4	1119.3	628.6	529.1	428.5	372.0	332.4
40°	13715.8	13293.0	11676.2	5579.7	2286.2	1101.2	584.5	507.7	404.8	347.1	306.4
42.5°	14656.5	14157.9	12217.7	5463.3	2208.1	1039.1	580.0	486.2	386.7	324.5	283.8
45°	15446.9	14941.5	12774.0	5424.8	2152.7	971.2	599.2	471.5	374.2	306.4	266.8
47.5°	16076.6	15598.4	13343.9	5510.8	2121.1	909.0	546.1	490.7	367.5	290.6	252.1
50°	16828.5	16286.9	14146.6	5767.4	2074.7	846.9	494.1	561.9	367.5	280.4	239.7
52.5°	17771.5	17235.5	15042.1	6165.4	1982.0	760.9	444.3	563.1	370.9	266.8	223.9
55°	18957.5	18568.6	16320.8	6601.8	1833.9	634.3	384.4	483.9	357.3	242.0	209.2
57.5°	20094.9	19777.2	17486.5	6900.3	1636.0	495.2	334.7	390.1	326.8	212.6	186.6
59°	20405.9	20058.7	17913.9	6913.9	1487.9	431.9	309.8	322.2	320.0	199.0	173.0
60°	20405.9	20037.3	18037.2	6841.5	1380.5	396.9	294.0	287.2	333.5	189.9	165.1
62.5°	20036.1	19518.3	17636.9	6352.0	1126.1	338.1	256.7	237.4	299.6	170.7	145.9
65°	19267.3	18513.2	16273.4	5466.7	1004.0	309.8	221.6	194.5	208.0	150.4	127.8
67.5°	17985.1	16963.0	14307.2	4416.3	955.4	301.9	191.1	165.1	157.2	128.9	111.9
70°	15727.3	14593.2	11920.4	3472.2	913.6	298.5	160.6	139.1	126.6	108.5	95.0
72.5°	11446.6	10264.0	8462.9	2714.7	888.7	305.3	128.9	116.5	104.0	84.8	73.5
75°	6547.6	5773.1	4756.6	1793.2	757.5	291.7	99.5	97.2	74.6	61.1	50.9
77.5°	3382.9	3280.0	2850.4	688.6	362.9	127.8	65.6	56.5	44.1	37.3	30.5
80°	1459.7	1443.8	1249.4	199.0	96.1	71.2	37.3	23.7	20.4	15.8	12.4
82.5°	504.3	504.3	444.3	66.7	43.0	35.0	4.5	0.0	0.0	0.0	0.0
85°	101.8	114.2	80.3	0.0	14.7	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°	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3
2.5°	6780.5	6643.7	6634.6	6548.7	6441.3	6392.7	6364.4	6414.1	6475.2	6482.0	6573.6
5°	5263.1	5119.6	5179.5	5026.8	5057.4	5026.8	4977.1	4986.1	5013.3	4928.5	5033.6
7.5°	3696.1	3587.5	3656.5	3615.8	3670.1	3691.6	3661.0	3615.8	3482.4	3466.6	3558.1
10°	2785.9	2662.7	2589.2	2512.3	2529.2	2564.3	2553.0	2520.2	2435.4	2439.9	2528.1
12.5°	2238.7	2100.7	1954.9	1766.1	1719.7	1745.7	1719.7	1700.5	1619.1	1625.9	1703.9
15°	1698.2	1585.2	1432.5	1281.0	1198.5	1206.4	1134.0	1083.2	1032.3	971.2	1018.7
17.5°	1146.5	1077.5	1032.3	987.1	888.7	866.1	774.5	676.1	637.7	609.4	629.8
20°	811.8	774.5	756.4	754.1	697.6	669.3	580.0	519.0	499.7	494.1	506.5
22.5°	678.4	651.3	625.2	610.5	582.3	549.5	481.7	451.1	437.6	430.8	439.8
25°	590.2	569.8	542.7	517.8	506.5	471.5	422.9	400.2	391.2	384.4	388.9
27.5°	524.6	506.5	474.9	459.0	450.0	419.5	377.6	359.5	351.6	349.4	348.2
30°	472.6	455.6	426.3	408.2	392.3	365.2	340.3	322.2	314.3	312.1	309.8
32.5°	420.6	407.0	387.8	369.7	352.8	327.9	306.4	291.7	279.3	277.0	275.9
35°	355.0	341.5	331.3	330.1	314.3	290.6	274.7	255.5	245.3	242.0	243.1
37.5°	315.4	297.4	274.7	282.7	278.1	261.2	239.7	220.5	210.3	208.0	208.0
40°	290.6	271.4	245.3	231.8	245.3	242.0	208.0	188.8	178.6	177.5	175.2
42.5°	266.8	247.6	218.2	195.6	202.4	212.6	179.8	161.7	151.5	149.2	145.9
45°	249.9	229.5	196.7	170.7	157.2	178.6	153.8	131.2	125.5	121.0	118.7
47.5°	234.0	214.8	177.5	148.1	125.5	128.9	123.2	107.4	100.6	96.1	95.0
50°	220.5	200.1	160.6	126.6	104.0	95.0	99.5	84.8	79.1	74.6	72.4
52.5°	204.6	185.4	142.5	109.7	87.1	74.6	75.8	66.7	61.1	57.7	56.5
55°	192.2	173.0	127.8	96.1	76.9	61.1	54.3	52.0	48.6	46.4	45.2
57.5°	175.2	157.2	113.1	81.4	65.6	49.7	41.8	41.8	40.7	38.4	37.3
59°	165.1	149.2	104.0	73.5	59.9	43.0	37.3	38.4	37.3	35.0	33.9
60°	157.2	142.5	97.2	67.8	56.5	39.6	33.9	36.2	35.0	32.8	31.7
62.5°	139.1	128.9	83.7	56.5	49.7	31.7	28.3	30.5	30.5	29.4	28.3
65°	122.1	110.8	71.2	47.5	46.4	27.1	22.6	27.1	28.3	26.0	23.7
67.5°	106.3	95.0	62.2	38.4	43.0	21.5	17.0	22.6	30.5	23.7	21.5
70°	90.5	79.1	48.6	30.5	45.2	14.7	13.6	20.4	36.2	26.0	20.4
72.5°	70.1	61.1	33.9	22.6	48.6	10.2	10.2	17.0	40.7	28.3	19.2
75°	48.6	39.6	20.4	13.6	39.6	6.8	6.8	15.8	38.4	26.0	18.1
77.5°	28.3	21.5	6.8	1.1	20.4	0.0	1.1	11.3	27.1	15.8	7.9
80°	10.2	4.5	0.0	0.0	12.4	0.0	0.0	0.0	2.3	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°	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3
2.5°	6597.3	6749.9	6886.8	7093.7	7339.0	7621.7	7864.8	8125.9	8371.3	8473.0	8543.1
5°	5055.1	5243.9	5464.4	5768.5	6173.3	6671.9	7138.9	7666.9	8234.5	8518.3	8785.1
7.5°	3574.0	3766.2	4039.8	4363.2	4852.7	5446.3	6056.9	6786.1	7555.0	8003.8	8445.9
10°	2570.0	2806.3	3061.8	3503.9	4001.3	4564.4	5193.0	6007.1	6864.1	7361.6	7894.2
12.5°	1749.1	2018.2	2404.9	2900.1	3484.6	4036.4	4582.5	5359.3	6354.2	6847.2	7418.2
15°	1049.2	1198.5	1607.8	2181.0	2897.8	3585.3	4183.4	4962.4	6022.9	6626.7	7220.3
17.5°	646.7	715.7	938.4	1408.8	2161.8	3031.3	3851.0	4827.8	6070.4	6805.3	7440.8
20°	515.6	542.7	613.9	832.2	1432.5	2420.7	3476.7	4800.7	6458.2	7362.8	8044.5
22.5°	447.7	473.7	521.2	604.9	901.1	1812.4	3121.7	4825.6	7014.5	8198.3	8994.3
25°	394.6	417.2	462.4	531.4	660.3	1276.5	2741.8	4936.4	7739.3	9235.1	10080.8
27.5°	352.8	372.0	413.8	477.1	566.5	890.9	2311.0	5070.9	8598.5	10295.6	11130.1
30°	314.3	331.3	368.6	427.4	491.8	685.2	1838.4	5162.5	9459.0	11130.1	11879.7
32.5°	281.5	294.0	327.9	377.6	427.4	546.1	1397.5	5147.8	10097.8	11824.3	12419.0
35°	247.6	260.0	289.4	332.4	372.0	451.1	1099.0	4873.1	10654.1	12544.5	13036.3
37.5°	210.3	226.1	254.4	292.8	320.0	396.9	888.7	4541.8	11218.2	13367.6	13724.9
40°	178.6	194.5	219.3	261.2	278.1	376.5	682.9	4138.2	11852.5	14287.9	14480.2
42.5°	148.1	162.8	188.8	225.0	262.3	324.5	505.4	3676.9	12462.0	15074.9	15168.7
45°	119.8	134.5	161.7	197.9	280.4	269.1	391.2	3182.8	12953.8	15729.5	15760.0
47.5°	95.0	108.5	136.8	186.6	261.2	214.8	279.3	2795.0	13366.5	16240.6	16160.3
50°	73.5	84.8	114.2	213.7	228.4	177.5	211.4	2666.1	13736.2	16557.1	16349.1
52.5°	57.7	67.8	93.8	200.1	177.5	147.0	177.5	2787.0	14242.7	16819.5	16455.4
55°	46.4	56.5	73.5	114.2	121.0	124.4	151.5	2900.1	15116.7	17434.5	17082.9
57.5°	38.4	48.6	59.9	80.3	91.6	105.1	134.5	2912.5	16146.7	18456.6	18124.2
59°	35.0	44.1	54.3	71.2	80.3	96.1	126.6	2844.7	16509.7	18828.6	18662.4
60°	32.8	41.8	50.9	65.6	74.6	90.5	122.1	2780.3	16525.5	18815.0	18891.9
62.5°	28.3	37.3	45.2	55.4	63.3	76.9	109.7	2541.7	15856.1	18198.8	18754.0
65°	24.9	32.8	40.7	47.5	54.3	69.0	99.5	2106.4	14713.1	17205.0	17809.9
67.5°	22.6	28.3	37.3	41.8	48.6	61.1	88.2	1501.5	13285.1	15989.6	16381.9
70°	20.4	27.1	33.9	38.4	44.1	53.1	75.8	862.7	11218.2	14209.9	14489.2
72.5°	19.2	26.0	30.5	36.2	39.6	47.5	69.0	405.9	8214.1	11383.3	12112.6
75°	17.0	23.7	28.3	33.9	37.3	43.0	58.8	194.5	5463.3	8237.9	9066.6
77.5°	10.2	19.2	26.0	30.5	32.8	37.3	48.6	111.9	3486.9	5701.8	6716.0
80°	0.0	6.8	19.2	26.0	28.3	31.7	37.3	88.2	1865.6	3257.4	3909.8
82.5°	0.0	0.0	13.6	20.4	19.2	21.5	28.3	55.4	841.2	2129.0	2399.2
85°	0.0	0.0	4.5	15.8	13.6	10.2	19.2	19.2	184.3	1077.5	1344.3
87.5°	0.0	0.0	0.0	1.1	6.8	4.5	7.9	2.3	1.1	80.3	325.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3
2.5°	8788.5	8872.2	9013.5	9080.2	9047.4	8908.3	8742.1	8572.5	8473.0	8512.6
5°	9328.9	9759.7	10008.5	10091.0	9953.1	9641.0	9232.8	8694.6	8503.6	8451.6
7.5°	9328.9	10139.6	10652.9	10743.4	10435.8	9824.2	9058.7	8218.6	7939.4	7837.6
10°	9001.1	10104.6	10820.3	10963.9	10534.2	9619.5	8594.0	7635.2	7304.0	7198.8
12.5°	8631.3	9819.6	10573.8	10771.6	10418.9	9416.0	8271.8	7240.6	6850.6	6759.0
15°	8404.1	9469.1	10093.3	10236.8	10087.6	9297.3	8194.9	7121.9	6662.9	6574.7
17.5°	8485.5	9197.8	9422.8	9506.5	9607.1	9255.4	8404.1	7382.0	6800.8	6717.2
20°	8791.9	8911.7	8795.3	8900.4	9171.8	9296.2	8902.7	8010.6	7313.0	7201.1
22.5°	9312.0	8763.6	8436.9	8478.7	8808.8	9430.7	9664.7	8908.3	8103.3	7963.1
25°	9918.0	8883.5	8237.9	8200.6	8539.8	9608.2	10361.2	9885.2	9038.4	8883.5
27.5°	10680.1	9152.6	8197.2	8159.9	8445.9	9774.4	10940.1	10850.8	10023.2	9758.6
30°	11268.0	9417.1	8318.1	8232.2	8539.8	9889.7	11404.8	11670.5	10807.8	10632.6
32.5°	11689.7	9729.2	8514.9	8390.5	8804.3	10088.7	11763.2	12421.3	11533.7	11268.0
35°	12010.8	10068.4	8832.6	8627.9	9168.4	10390.6	12099.0	13220.6	12305.9	12015.3
37.5°	12311.6	10544.4	9328.9	9084.7	9739.4	10876.8	12454.0	14127.4	13169.7	12822.6
40°	12731.0	11083.7	10094.4	9877.3	10699.3	11539.3	12897.3	15072.6	14152.3	13715.8
42.5°	13150.5	11662.6	10877.9	10936.7	11896.6	12344.4	13469.4	16072.1	15122.4	14656.5
45°	13533.8	12259.6	11993.9	12265.2	13008.1	13227.4	14038.1	16649.9	15896.8	15446.9
47.5°	13875.3	13005.8	13103.0	13825.5	14272.1	14026.8	14463.2	17148.5	16473.5	16076.6
50°	14272.1	13971.4	14565.0	15587.1	15727.3	14750.4	14849.9	17738.7	17147.3	16828.5
52.5°	14706.3	14988.9	16184.0	17085.2	17039.9	15536.2	15238.8	18400.1	18071.1	17771.5
55°	15199.2	15810.9	17609.8	18487.2	18448.7	16413.6	15883.3	19217.5	19228.9	18957.5
57.5°	15930.8	16518.7	18577.6	19621.2	19685.6	17426.6	16975.5	20133.4	20275.8	20094.9
59°	16455.4	16977.7	18960.9	20094.9	20357.2	18210.1	17773.7	20664.8	20570.9	20405.9
60°	16844.3	17269.5	19150.8	20342.5	20747.3	18741.5	18362.8	20976.8	20606.0	20405.9
62.5°	17806.5	17904.9	19493.4	20622.9	21196.2	19921.9	20020.3	21508.2	20362.9	20036.1
65°	18255.4	18306.3	19488.9	20120.9	20762.0	20841.2	21524.1	21524.1	19769.3	19267.3
67.5°	18067.7	17822.3	18522.2	18456.6	19096.6	20295.1	22089.4	20734.9	18634.1	17985.1
70°	16541.3	15597.2	15286.3	15314.6	15804.1	17652.7	20970.0	18412.5	16485.9	15727.3
72.5°	13763.3	11498.6	10730.9	11607.2	11734.9	13566.6	17871.0	13866.2	12157.8	11446.6
75°	11070.1	8105.6	6857.4	7782.2	7999.3	9928.2	13824.4	8635.9	7101.6	6547.6
77.5°	7952.9	5818.3	4920.6	4856.1	5136.5	6296.6	9809.5	4346.2	3624.8	3382.9
80°	4518.1	3829.5	4123.5	3890.5	4031.9	3936.9	4660.5	1906.3	1561.4	1459.7
82.5°	2727.1	2263.5	2451.2	2040.8	2582.4	2248.9	1795.5	610.5	530.3	504.3
85°	1774.0	1236.9	644.5	431.9	889.8	1437.0	401.4	166.2	127.8	101.8
87.5°	611.7	315.4	31.7	13.6	95.0	268.0	14.7	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)