

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: P653608

Luminaire Tested: **GLAN-SA9D-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P653608
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: STREETWORKS
Catalog Number: GLAN-SA9D-840-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 32605.6 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

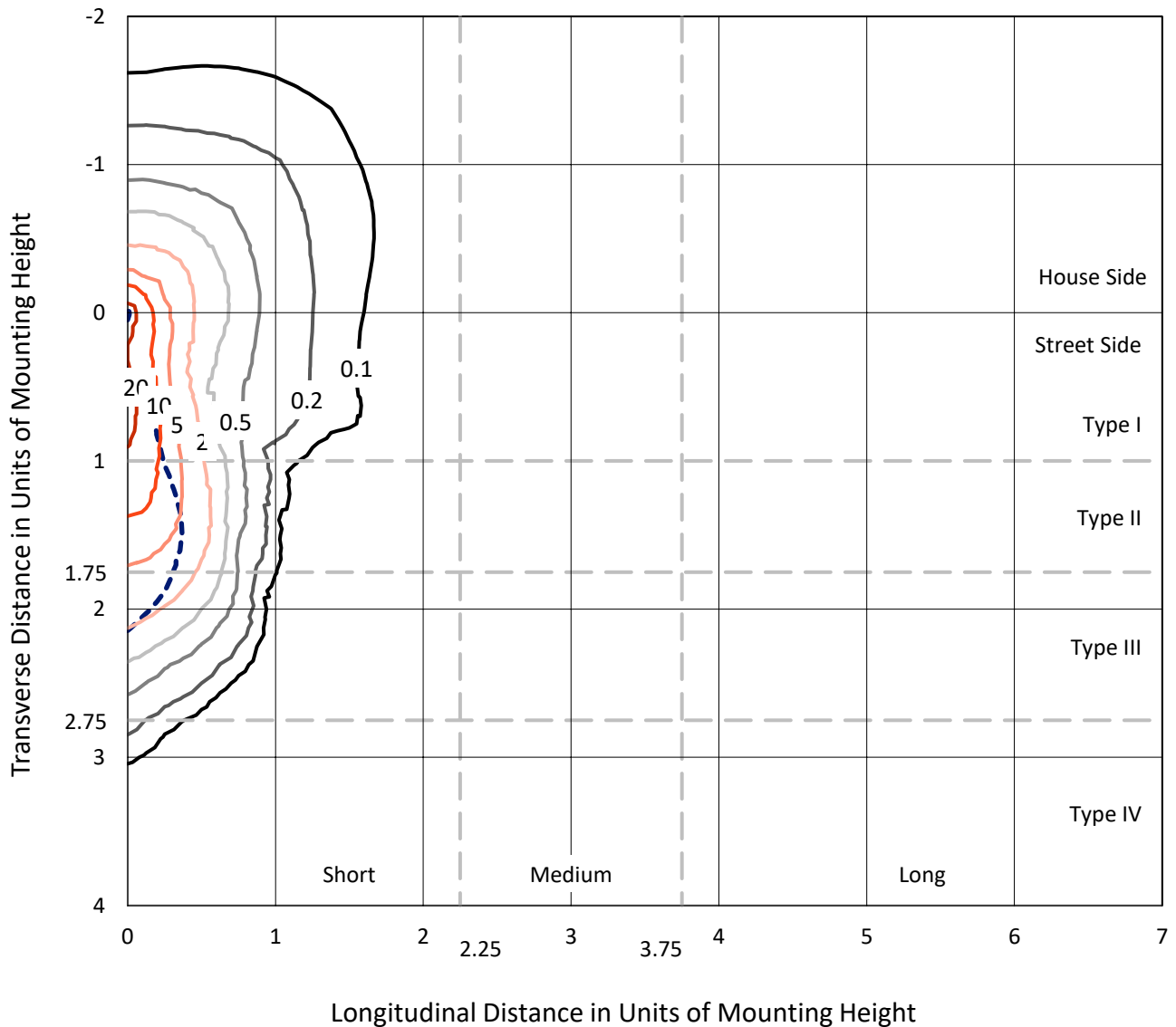
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

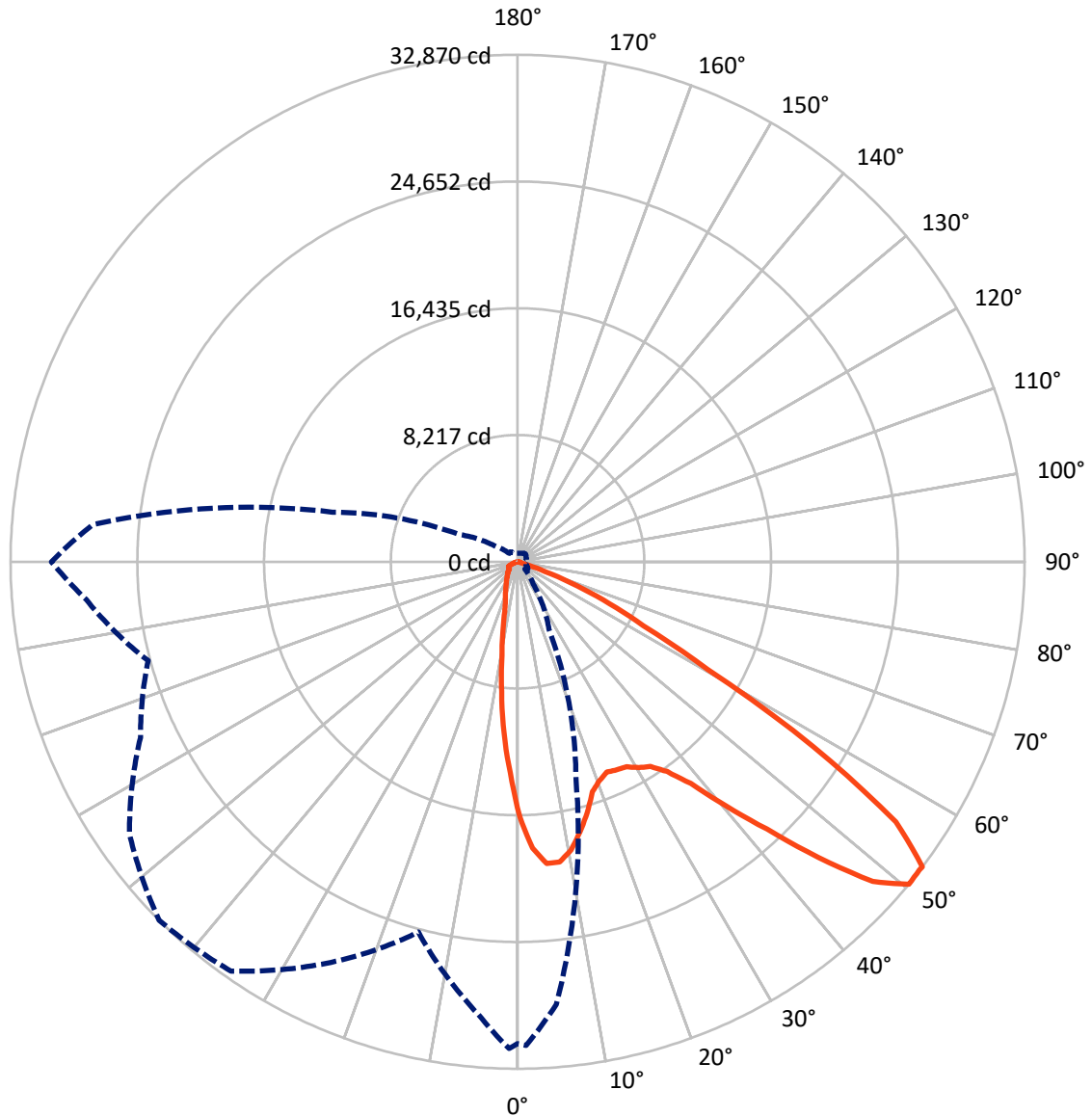
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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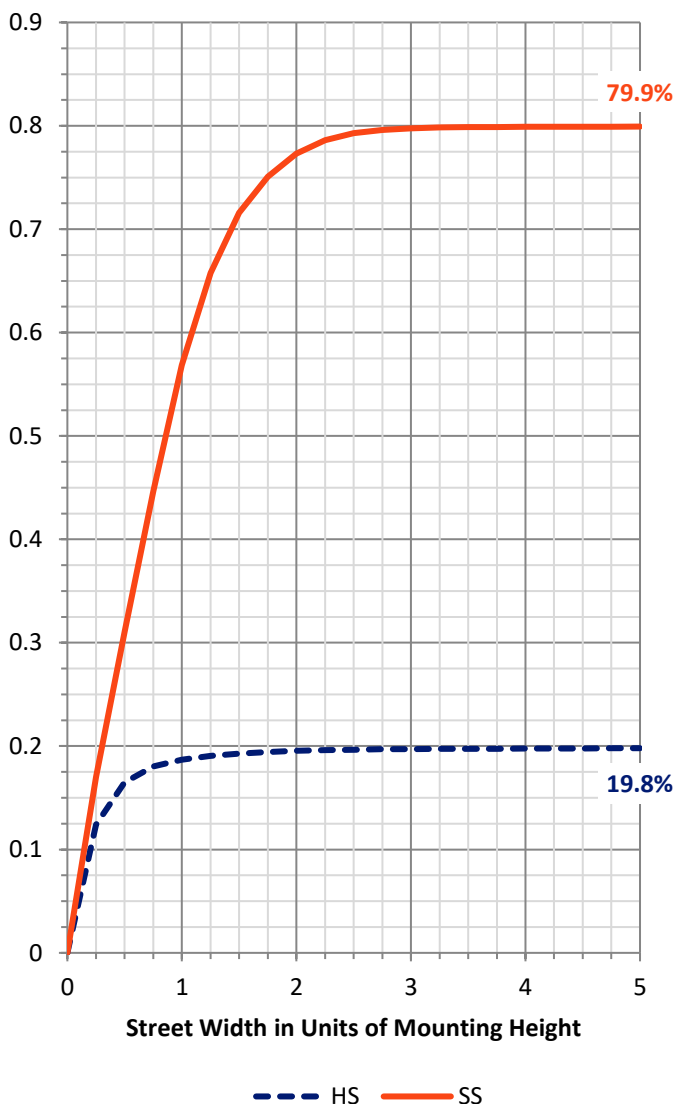
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6530.9	0.0	6530.9
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	26074.7	0.0	26074.7
	% Fixture	80.0	0.0	80.0
Total	Lumens	32605.6	0.0	32605.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1205.2	3.7
10°-20°	2395.4	7.3
20°-30°	3598.5	11.0
30°-40°	5401.3	16.6
40°-50°	7591.2	23.3
50°-60°	8188.4	25.1
60°-70°	3801.9	11.7
70°-80°	357.7	1.1
80°-90°	65.9	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°	32605.6	100.0
0°-180°	32605.6	100.0

Coefficient of Utilization



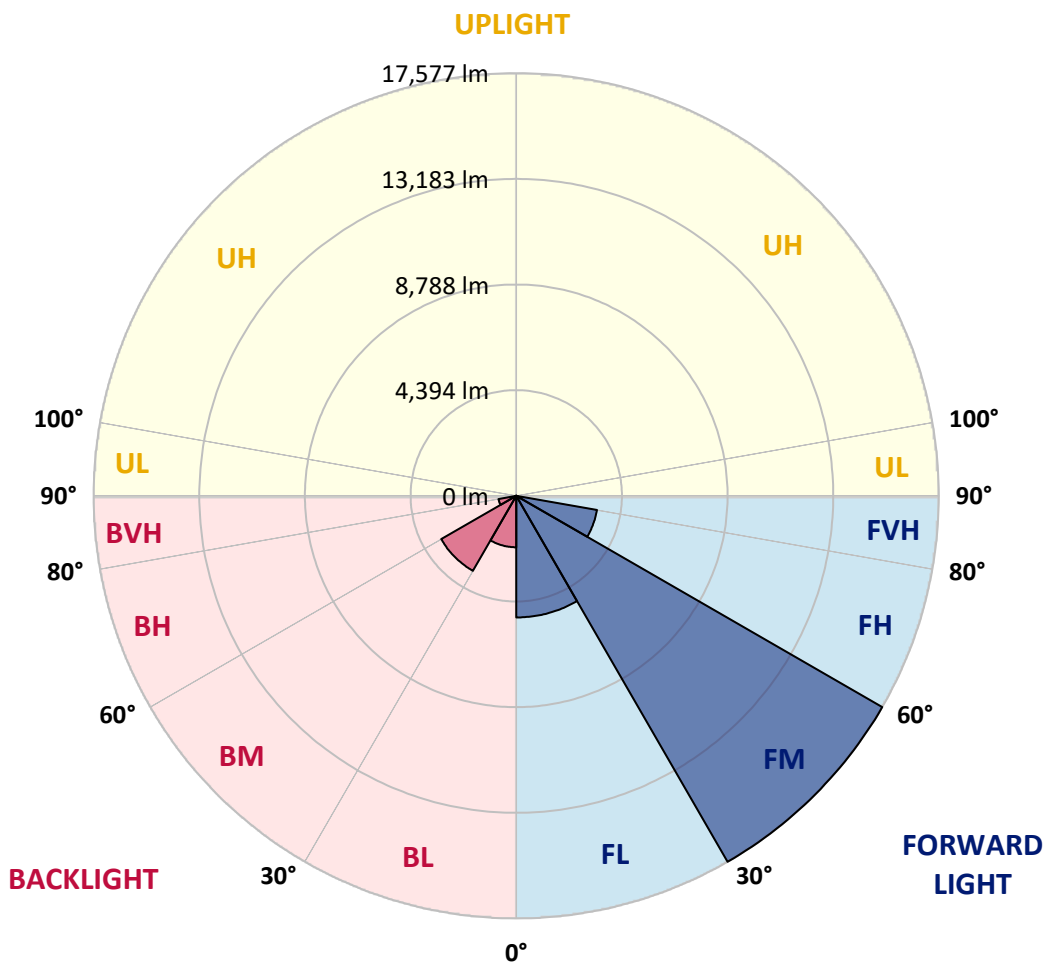
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5058.5	15.5			
FM (30°-60°)	17576.8	53.9			
FH (60°-80°)	3409.7	10.5			G2/5000
FVH (80°-90°)	29.7	0.1			G1/100
BL (0°-30°)	2140.7	6.6	B3/2500		
BM (30°-60°)	3604.1	11.1	B3/5000		
BH (60°-80°)	749.9	2.3	B2/1000		G2/1000
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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16535.2	16535.2	16535.2	16535.2	16535.2	16535.2	16535.2	16535.2	16535.2	16535.2	16535.2
2.5°	17188.5	16923.3	16586.9	16308.7	15894.6	15060.2	14833.7	14562.1	14335.6	14031.6	13604.6
5°	15629.5	15545.4	15390.1	14342.1	13585.2	12576.0	11747.9	11398.7	10939.3	10564.1	10292.4
7.5°	14439.1	14102.7	13611.1	12556.6	11346.9	10266.5	9347.9	8811.0	8202.9	7995.9	7627.1
10°	13164.7	13242.3	12517.8	11036.4	9574.4	8701.0	8131.7	7614.2	7064.3	6702.0	6178.1
12.5°	12757.1	12504.8	11948.5	10117.7	8869.2	8054.1	7361.9	6721.4	6139.2	5557.0	5052.4
15°	13022.4	12634.3	11857.9	9923.6	8325.8	7310.1	6443.2	5576.4	5039.4	4295.5	3771.5
17.5°	13973.4	13662.8	12621.3	10130.7	8047.6	6598.5	5311.2	4418.4	3596.9	2924.1	2658.8
20°	15558.3	15118.4	13811.7	10395.9	7633.6	5738.1	4308.4	3208.7	2432.4	2147.7	1999.0
22.5°	17110.9	16871.6	15221.9	10907.0	7264.8	4974.8	3234.6	2160.7	1817.8	1766.1	1669.0
25°	20067.3	19349.2	17376.2	11832.0	6980.2	4256.7	2438.9	1740.2	1539.6	1500.8	1513.8
27.5°	21826.9	21225.2	19368.7	12446.6	6663.2	3706.8	2063.6	1597.9	1462.0	1377.9	1345.6
30°	23515.4	22816.7	20358.4	12808.9	5984.0	3124.6	1830.8	1533.2	1500.8	1377.9	1339.1
32.5°	24815.6	24129.9	21788.0	13352.3	5705.8	2749.4	1507.3	1196.8	1112.7	1099.8	1216.2
35°	26808.1	26077.1	23010.8	13649.9	5492.3	2555.3	1306.7	1067.4	970.3	931.6	938.1
37.5°	28664.8	28166.7	24142.8	13766.3	5265.9	2497.1	1170.9	957.4	873.3	847.5	841.0
40°	30217.4	29104.7	25216.7	13889.3	5168.9	2387.1	1086.8	873.3	815.1	776.3	776.3
42.5°	30929.0	29796.9	26420.0	13818.1	5143.0	2212.4	1086.8	802.1	756.9	718.0	711.6
45°	30773.7	30314.4	26956.9	13785.8	5143.0	2037.7	989.8	782.8	718.0	666.3	653.4
47.5°	31174.8	30573.2	27629.7	13921.6	5039.4	1914.9	834.5	821.6	679.3	614.6	601.7
50°	31246.0	31362.4	28800.6	14626.8	4813.0	1759.6	653.4	808.6	653.4	556.3	543.4
52°	31711.8	30987.2	29156.5	15001.9	4573.7	1643.1	549.8	692.2	627.5	517.6	504.6
52.5°	31071.3	31543.6	29240.6	15137.8	4599.6	1565.5	530.5	679.3	614.6	517.6	485.2
55°	30353.2	30806.1	28897.7	15428.9	4217.9	1229.1	414.0	491.6	556.3	452.9	433.5
57.5°	26381.2	26840.5	25113.2	14128.6	3435.1	866.9	342.9	368.8	491.6	420.5	401.1
60°	23450.6	23120.7	21076.5	11786.8	2438.9	485.2	271.7	284.7	537.0	388.1	381.6
62.5°	21432.3	20727.1	17615.5	9102.1	1487.9	323.4	213.4	219.9	414.0	362.3	362.3
65°	15855.9	15066.6	11702.7	5505.3	731.0	226.4	161.7	174.7	258.8	310.5	310.5
67.5°	9050.3	8746.3	5654.0	2484.1	304.0	142.3	123.0	135.8	200.6	252.3	239.3
70°	4159.7	3732.7	2173.6	524.0	142.3	97.1	97.1	110.0	161.7	187.6	174.7
72.5°	1216.2	1151.5	530.5	84.1	58.2	58.2	64.7	84.1	123.0	142.3	129.3
75°	90.6	58.2	38.9	25.9	25.9	38.9	51.7	84.1	123.0	135.8	110.0
77.5°	6.5	13.0	6.5	6.5	19.4	38.9	58.2	103.5	161.7	168.2	123.0
80°	6.5	6.5	0.0	6.5	19.4	38.9	64.7	116.5	181.2	194.1	103.5
82.5°	0.0	0.0	0.0	6.5	25.9	51.7	77.6	123.0	168.2	207.1	110.0
85°	0.0	0.0	0.0	6.5	38.9	71.1	90.6	32.4	19.4	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°	16535.2	16535.2	16535.2	16535.2	16535.2	16535.2	16535.2	16535.2	16535.2	16535.2	16535.2
2.5°	13908.6	13740.4	13675.8	13734.0	13714.6	13695.2	14051.0	13973.4	13960.4	14076.8	14051.0
5°	10441.2	10143.6	10958.7	10628.8	10971.7	11178.7	11217.5	11236.9	11476.3	11224.0	11553.9
7.5°	7439.5	7517.1	7510.7	7730.6	8125.2	8474.6	8681.6	8519.8	8507.0	8474.6	8332.3
10°	5945.1	5809.3	5783.4	5731.7	5854.5	6152.2	6404.5	6203.9	6061.6	6255.7	6197.4
12.5°	4858.3	4670.7	4567.2	4360.2	4366.6	4567.2	4567.2	4567.2	4709.5	4819.5	4903.6
15°	3726.2	3571.0	3571.0	3363.9	3318.7	3325.1	3428.7	3441.6	3668.0	3732.7	3765.1
17.5°	2607.1	2523.0	2620.0	2704.1	2652.3	2665.3	2704.1	2717.0	2749.4	2723.5	2788.2
20°	2005.4	1992.5	2018.4	2167.2	2277.2	2341.8	2296.5	2231.8	2193.1	2102.5	2102.5
22.5°	1701.4	1727.2	1772.6	1895.4	2037.7	2076.6	2024.9	1876.0	1759.6	1746.7	1753.1
25°	1513.8	1539.6	1610.9	1688.5	1766.1	1830.8	1779.1	1669.0	1604.4	1546.1	1546.1
27.5°	1397.3	1410.3	1449.1	1507.3	1572.0	1623.7	1604.4	1546.1	1474.9	1449.1	1390.8
30°	1306.7	1326.2	1371.4	1384.4	1442.7	1468.5	1436.2	1423.2	1377.9	1345.6	1326.2
32.5°	1261.5	1255.0	1287.3	1300.3	1306.7	1326.2	1287.3	1306.7	1300.3	1248.5	1229.1
35°	951.0	1002.7	1086.8	1158.0	1177.4	1203.3	1196.8	1170.9	1099.8	1041.5	970.3
37.5°	854.0	886.2	931.6	989.8	1067.4	1099.8	1086.8	1022.2	938.1	899.2	886.2
40°	789.2	808.6	847.5	886.2	963.9	1022.2	976.8	918.6	854.0	821.6	802.1
42.5°	731.0	737.5	756.9	795.7	854.0	944.5	866.9	789.2	763.4	743.9	731.0
45°	666.3	666.3	692.2	711.6	776.3	860.4	782.8	711.6	698.7	685.8	679.3
47.5°	614.6	621.1	633.9	659.8	711.6	769.9	718.0	659.8	627.5	621.1	608.1
50°	549.8	556.3	582.2	608.1	672.8	705.2	672.8	608.1	575.7	556.3	556.3
52°	498.1	517.6	543.4	595.2	640.4	692.2	653.4	582.2	543.4	524.0	511.1
52.5°	491.6	504.6	530.5	588.7	640.4	685.8	646.9	575.7	530.5	517.6	504.6
55°	439.9	459.3	504.6	575.7	633.9	685.8	633.9	569.3	504.6	472.2	459.3
57.5°	420.5	433.5	491.6	582.2	627.5	685.8	633.9	569.3	504.6	446.4	433.5
60°	401.1	427.0	491.6	562.8	621.1	692.2	640.4	562.8	491.6	420.5	420.5
62.5°	381.6	401.1	485.2	549.8	595.2	666.3	614.6	549.8	472.2	401.1	394.6
65°	329.9	362.3	427.0	459.3	511.1	575.7	524.0	478.7	414.0	355.8	349.4
67.5°	252.3	265.3	317.0	355.8	388.1	446.4	420.5	362.3	317.0	271.7	271.7
70°	174.7	187.6	226.4	245.8	278.2	310.5	291.1	245.8	213.4	187.6	181.2
72.5°	123.0	129.3	142.3	155.2	168.2	181.2	174.7	142.3	123.0	116.5	110.0
75°	97.1	110.0	116.5	110.0	103.5	97.1	97.1	84.1	71.1	64.7	64.7
77.5°	97.1	103.5	97.1	84.1	71.1	64.7	58.2	51.7	38.9	32.4	38.9
80°	84.1	84.1	84.1	71.1	64.7	58.2	51.7	45.2	38.9	32.4	32.4
82.5°	90.6	90.6	84.1	71.1	71.1	58.2	58.2	51.7	45.2	32.4	32.4
85°	0.0	0.0	0.0	13.0	32.4	58.2	58.2	51.7	45.2	38.9	38.9
87.5°	0.0	0.0	0.0	0.0	6.5	13.0	25.9	32.4	38.9	38.9	38.9
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	16535.2	16535.2	16535.2	16535.2	16535.2	16535.2	16535.2	16535.2	16535.2	16535.2	16535.2
2.5°	14283.9	14529.7	14995.5	15461.3	15745.9	16082.3	16690.4	17013.9	17434.4	17641.3	18049.0
5°	11508.6	12090.8	12297.9	12828.3	13397.6	13966.9	14872.6	15868.8	16696.9	17266.2	18003.6
7.5°	8397.0	8532.8	9335.0	9690.8	10622.3	11657.4	12893.0	14148.1	15196.0	16127.6	16690.4
10°	6294.5	6792.6	7297.2	7976.5	8726.9	9794.3	10978.2	12362.5	13721.1	14652.6	15364.2
12.5°	5058.9	5453.5	6126.3	6857.3	7782.4	8487.5	9677.8	11049.3	12808.9	13721.1	14659.1
15°	3829.7	4334.3	5097.7	5854.5	6831.4	7575.4	8778.6	10505.9	12770.1	14025.1	14833.7
17.5°	2840.0	3182.8	3868.5	4716.0	5712.2	6760.3	8384.0	10447.7	13203.5	14697.9	15532.4
20°	2173.6	2290.0	2723.5	3480.4	4560.7	5932.2	7743.6	10700.0	14484.4	16334.6	17182.1
22.5°	1759.6	1811.3	1979.5	2503.6	3551.5	5207.6	7439.5	10874.6	15927.0	18294.8	19426.8
25°	1533.2	1520.3	1630.2	1856.7	2775.3	4528.4	7051.4	11534.5	17693.1	20597.8	21613.4
27.5°	1397.3	1397.3	1449.1	1610.9	2303.0	4088.5	6805.5	12006.7	19472.1	22622.6	23172.5
30°	1326.2	1339.1	1487.9	1539.6	1914.9	3564.5	6398.0	12485.5	21173.5	23916.4	24673.3
32.5°	1229.1	1177.4	1145.0	1274.5	1610.9	3092.3	5990.4	12686.0	22551.4	25501.4	26148.3
35°	944.5	918.6	957.4	1054.4	1384.4	2691.2	5537.6	12912.4	24136.4	27338.6	27468.0
37.5°	854.0	847.5	873.3	957.4	1164.4	2341.8	5214.1	12854.2	25346.1	28858.8	28509.5
40°	789.2	789.2	808.6	879.8	1041.5	2096.0	4877.7	12802.5	26517.1	30566.7	29544.6
42.5°	737.5	737.5	769.9	815.1	989.8	1934.3	4625.4	12731.3	27500.4	31614.7	30152.7
45°	666.3	685.8	737.5	782.8	1002.7	1824.3	4437.9	12459.6	27836.8	31601.8	29861.6
47.5°	614.6	640.4	692.2	756.9	905.7	1791.9	4308.4	12220.2	27720.3	30825.5	28949.4
50°	556.3	588.7	659.8	769.9	769.9	1727.2	4172.6	12433.7	27636.2	30223.9	28076.1
52°	517.6	543.4	633.9	750.4	672.8	1591.4	4088.5	12847.7	27979.1	30146.2	27687.9
52.5°	511.1	530.5	614.6	737.5	640.4	1565.5	4030.2	12944.8	28089.1	29952.1	27953.2
55°	452.9	478.7	562.8	575.7	524.0	1287.3	3842.7	13164.7	27545.6	29570.5	27700.9
57.5°	427.0	439.9	498.1	472.2	452.9	970.3	3305.7	12821.9	24466.3	26264.8	25773.0
60°	394.6	407.5	465.7	368.8	381.6	679.3	2484.1	11133.4	19646.8	21885.1	22771.4
62.5°	381.6	375.2	439.9	297.5	323.4	491.6	1753.1	9050.3	15137.8	18016.6	19549.7
65°	336.4	329.9	317.0	252.3	278.2	381.6	1048.0	5906.3	10667.6	13630.5	14471.5
67.5°	258.8	271.7	232.9	200.6	232.9	297.5	582.2	2645.9	5595.8	8177.0	8856.2
70°	181.2	194.1	187.6	174.7	207.1	245.8	336.4	905.7	2315.9	4295.5	4735.4
72.5°	110.0	135.8	142.3	148.8	181.2	213.4	239.3	291.1	614.6	1520.3	1889.0
75°	64.7	90.6	110.0	129.3	148.8	181.2	200.6	207.1	213.4	284.7	459.3
77.5°	45.2	64.7	97.1	123.0	148.8	181.2	213.4	226.4	213.4	200.6	213.4
80°	38.9	64.7	90.6	116.5	155.2	187.6	213.4	213.4	207.1	181.2	194.1
82.5°	38.9	64.7	97.1	123.0	148.8	181.2	207.1	213.4	194.1	181.2	187.6
85°	45.2	71.1	103.5	129.3	161.7	148.8	135.8	110.0	103.5	84.1	90.6
87.5°	45.2	64.7	64.7	71.1	77.6	77.6	77.6	71.1	58.2	51.7	51.7
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°	16535.2	16535.2	16535.2	16535.2	16535.2	16535.2	16535.2	16535.2	16535.2	16535.2
2.5°	18068.3	18585.8	18566.4	18579.4	18501.7	17977.7	17725.4	17085.0	17266.2	17188.5
5°	18760.5	19271.6	19711.4	19659.7	19064.5	18353.0	17298.5	16302.3	16030.6	15629.5
7.5°	18068.3	19297.4	19705.1	19646.8	18767.0	17854.9	16172.9	15176.6	14704.4	14439.1
10°	16968.6	18391.7	18896.3	18999.9	18404.7	17020.3	15474.2	13876.3	13624.0	13164.7
12.5°	16341.1	17376.2	17686.7	17964.9	17757.8	16722.8	14943.7	13410.5	13061.2	12757.1
15°	15830.0	16444.6	16573.9	16890.9	17013.9	16457.5	15221.9	13915.1	13054.8	13022.4
17.5°	16302.3	16050.0	15577.7	15674.7	16062.8	16464.0	15940.0	14911.4	14076.8	13973.4
20°	17085.0	15972.4	14904.9	15144.3	15467.8	16696.9	17026.8	16302.3	15823.5	15558.3
22.5°	17984.2	16108.2	14691.4	14807.9	15422.4	17220.9	18786.4	18385.3	17492.5	17110.9
25°	19646.8	16483.3	14859.6	14937.3	15778.3	17951.9	20377.8	20675.4	20144.9	20067.3
27.5°	21270.6	17453.8	15228.4	15053.7	15959.4	18663.5	21341.7	22939.6	22008.0	21826.9
30°	22098.6	18243.0	15778.3	15480.6	16709.8	19096.9	21923.9	24414.6	23599.5	23515.4
32.5°	23366.5	18961.1	16205.2	15823.5	17130.3	19633.8	23010.8	26025.3	25236.1	24815.6
35°	23897.0	19743.8	17143.2	16696.9	18333.5	20384.2	23567.1	27461.5	27215.7	26808.1
37.5°	24919.2	20584.8	18249.4	18223.5	19789.2	21361.1	24569.8	29415.2	29369.9	28664.8
40°	25003.3	21503.4	19996.1	20811.2	22040.3	23062.5	25449.6	29958.6	30696.1	30217.4
42.5°	25132.6	23114.2	23017.2	23690.0	24744.5	24524.6	25482.0	30088.0	31213.6	30929.0
45°	25190.8	24725.1	26090.1	27332.2	27772.0	26439.4	25177.9	29842.1	31485.4	30773.7
47.5°	24725.1	26109.4	28574.2	30974.3	31103.6	27616.8	25048.5	29589.8	31647.1	31174.8
50°	24789.7	26976.3	30722.0	32869.7	32397.5	28658.3	24848.0	29434.6	31563.0	31246.0
52°	24634.5	26995.8	31026.0	32830.9	32500.9	28082.6	24505.1	28839.5	31485.4	31711.8
52.5°	24809.2	26879.3	30709.0	32856.8	32429.8	28367.2	24459.8	29169.4	31530.6	31071.3
55°	24207.5	25494.9	28852.4	29764.5	29699.8	25747.2	23069.0	28076.1	30346.7	30353.2
57.5°	21878.6	22098.6	22629.0	22609.7	22312.1	20241.9	19730.9	25818.4	27054.0	26381.2
60°	19278.1	16179.3	14749.6	14167.4	13837.5	13501.1	17453.8	23618.8	23735.3	23450.6
62.5°	16658.0	11217.5	9315.6	9153.9	9231.5	10460.6	16871.6	22745.5	22046.8	21432.3
65°	13442.9	8177.0	6766.7	6553.2	7310.1	8636.3	13656.3	17440.8	16367.0	15855.9
67.5°	8442.2	5964.5	4573.7	4172.6	5084.8	5945.1	8972.7	10958.7	9755.4	9050.3
70°	5007.1	3331.6	2070.1	1856.7	2089.5	3169.9	5026.5	5466.4	4522.0	4159.7
72.5°	1973.1	1222.6	575.7	491.6	511.1	1112.7	1850.2	1804.9	1365.0	1216.2
75°	530.5	368.8	200.6	161.7	135.8	207.1	297.5	194.1	71.1	90.6
77.5°	245.8	219.9	174.7	135.8	103.5	77.6	38.9	13.0	13.0	6.5
80°	213.4	187.6	161.7	135.8	103.5	64.7	32.4	6.5	6.5	6.5
82.5°	200.6	174.7	148.8	123.0	97.1	64.7	32.4	6.5	0.0	0.0
85°	84.1	110.0	123.0	116.5	103.5	64.7	32.4	6.5	0.0	0.0
87.5°	45.2	38.9	32.4	25.9	19.4	13.0	13.0	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

(END OF REPORT)