

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: P458497

Luminaire Tested: **GLAN-SA9D-830-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9D-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48037 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

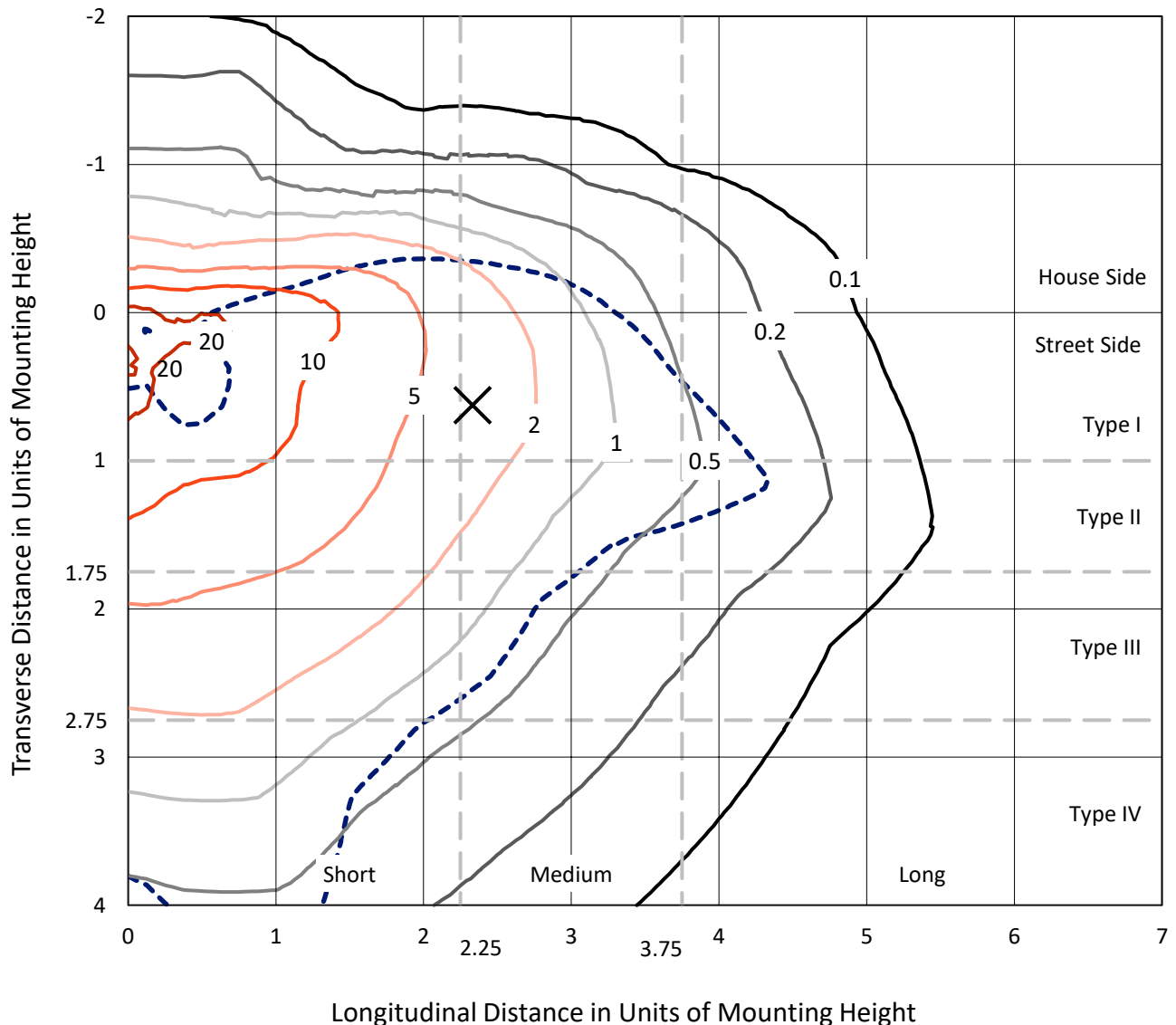
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

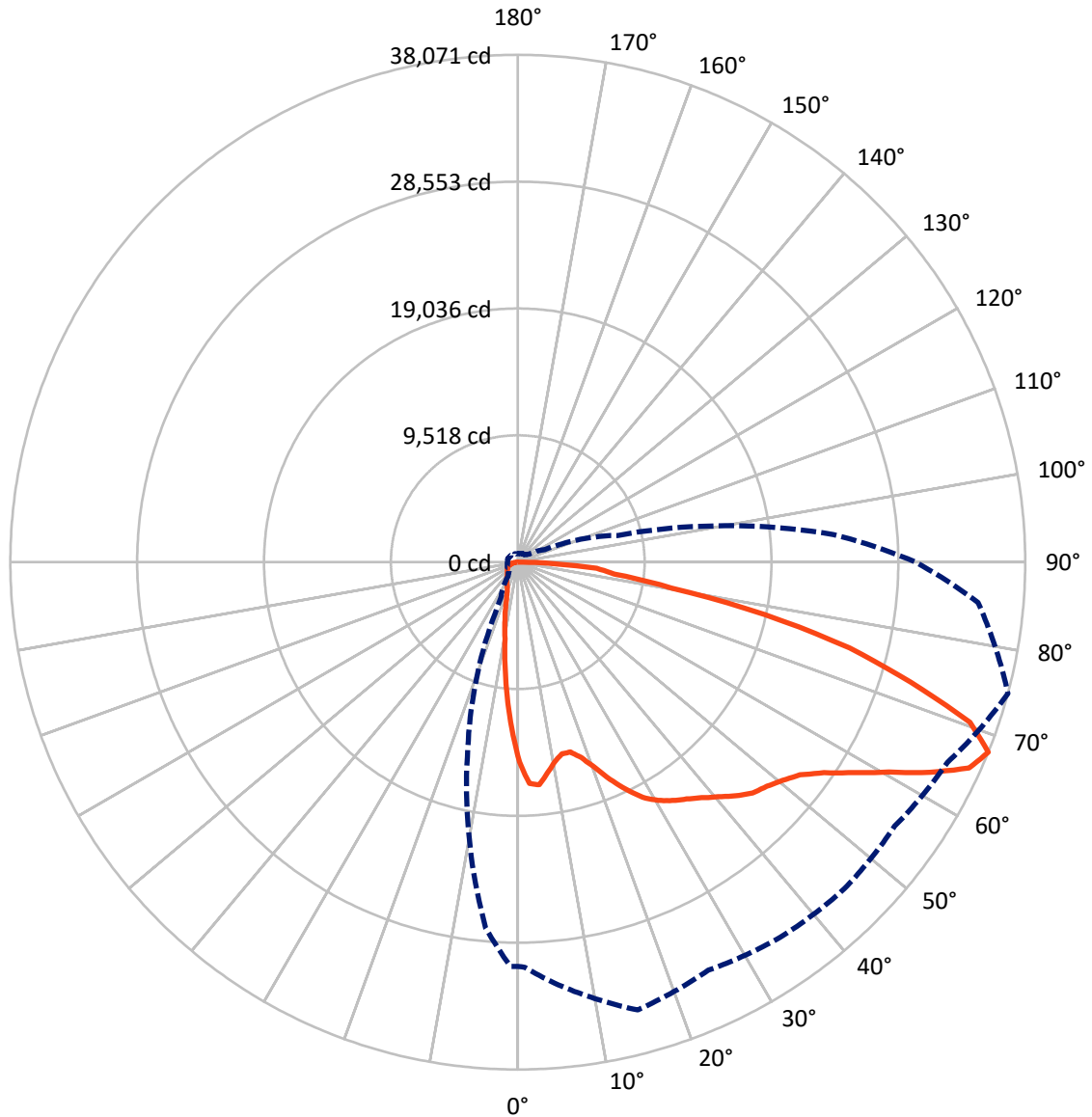
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8119.3	0.0	8119.3
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	39917.7	0.0	39917.7
	% Fixture	83.1	0.0	83.1
Total	Lumens	48037.0	0.0	48037.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1138.3	2.4
10°-20°	2374.0	4.9
20°-30°	3416.2	7.1
30°-40°	4920.3	10.2
40°-50°	6911.6	14.4
50°-60°	9639.3	20.1
60°-70°	11460.5	23.9
70°-80°	6749.6	14.1
80°-90°	1427.3	3.0
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°	48037.0	100.0
0°-180°	48037.0	100.0

Coefficient of Utilization



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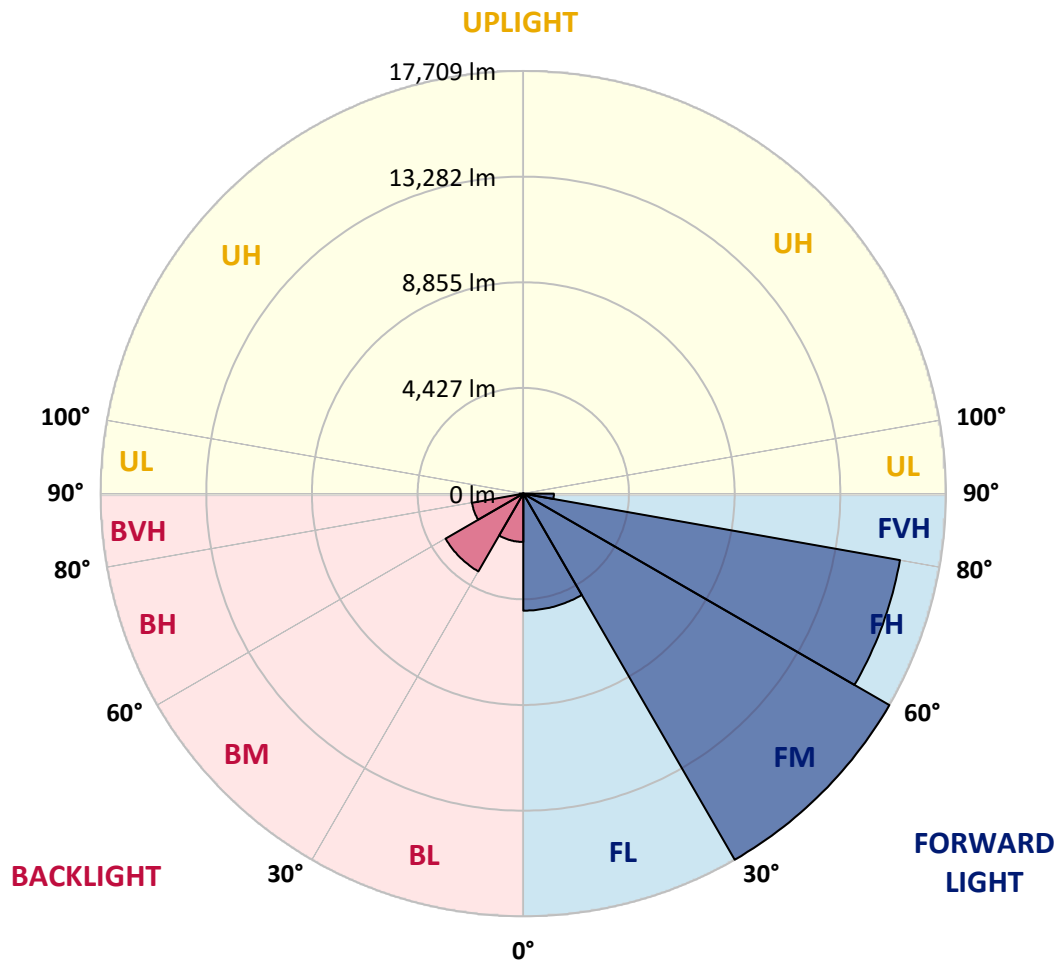
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4903.3	10.2			
FM	(30°-60°)	17709.5	36.9			
FH	(60°-80°)	16025.3	33.4			G5
FVH	(80°-90°)	1279.7	2.7			G5
BL	(0°-30°)	2025.2	4.2	B3/2500		
BM	(30°-60°)	3761.7	7.8	B3/5000		
BH	(60°-80°)	2184.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	147.6	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15007.9	15007.9	15007.9	15007.9	15007.9	15007.9	15007.9	15007.9	15007.9	15007.9	15007.9
2.5°	16181.5	16203.1	16341.7	16745.3	17022.5	17124.2	17195.0	17062.5	16933.2	16619.0	16144.6
5°	16132.3	16258.6	16619.0	17524.6	18239.3	18547.3	18639.7	18242.4	17586.2	16779.1	15808.8
7.5°	15189.6	15359.1	15913.5	17432.2	18692.1	19412.9	19317.4	18599.7	17416.8	15978.2	14622.8
10°	14071.4	14259.3	14927.8	16763.7	18387.1	19379.0	19379.0	18504.2	16933.2	15223.5	13661.7
12.5°	13184.3	13381.4	14145.4	16076.8	17752.6	18692.1	18849.2	18097.6	16585.1	14746.1	13030.3
15°	12891.6	13082.6	13905.1	15660.9	17081.0	17654.0	17706.4	17459.9	16415.7	14779.9	13002.5
17.5°	13255.1	13501.6	14333.3	15784.2	16464.9	16498.8	16538.9	16732.9	16434.1	15399.1	13563.2
20°	14305.6	14570.5	15439.2	16181.5	15925.9	15574.7	15596.3	16095.3	16652.8	16421.8	14903.2
22.5°	15821.1	16052.2	16942.4	16880.8	15697.9	14974.0	14823.1	15519.2	16976.3	17697.1	16329.4
25°	17456.8	17727.9	18750.6	17918.9	15762.6	14616.7	14521.2	15180.4	17312.1	18889.2	17977.4
27.5°	19329.8	19594.7	20401.7	18966.3	16101.5	14589.0	14475.0	15149.6	17613.9	19992.0	19551.5
30°	20722.1	20965.5	21513.8	19847.3	16517.3	14773.8	14632.1	15393.0	17872.7	20746.8	21085.6
32.5°	21815.7	22068.3	22367.1	20395.6	17065.6	15109.6	14847.7	15836.5	18211.6	21322.8	22222.3
35°	22955.4	23254.2	23232.7	20882.3	17577.0	15497.7	15242.0	16477.3	18744.5	21824.9	23663.9
37.5°	24400.2	24520.3	24366.3	21319.7	18190.0	16196.9	16055.2	17429.1	19502.3	22431.8	25348.9
40°	25866.4	26106.7	25315.0	21849.5	18935.5	17512.3	17496.9	18836.9	20401.7	23143.3	26981.6
42.5°	27123.3	27326.6	26202.2	22311.6	19838.0	19117.2	19234.3	20725.2	21581.6	23968.9	28293.8
45°	28069.0	28250.7	27021.6	22758.3	21027.1	20971.6	21661.6	22749.0	23069.4	24711.3	29063.9
47.5°	28872.9	29048.5	27591.5	23436.0	22496.4	23186.5	24387.8	24859.1	24341.6	25136.4	29926.5
50°	29550.6	29603.0	27982.7	24243.0	24320.1	25900.3	27064.7	27369.7	25598.4	25746.3	30675.0
52.5°	30256.1	30188.3	28657.3	25259.6	26291.5	28475.6	29322.7	29640.0	26802.9	26497.9	31765.5
55°	31836.3	31901.0	30169.8	26541.1	28284.6	31004.6	32119.7	31814.8	28136.7	27881.0	33151.7
57.5°	33746.2	33690.8	32298.4	28546.4	30314.6	33358.1	34189.8	33700.0	29917.2	29781.7	34556.4
60°	34488.6	34562.5	34078.9	30702.7	32316.9	35418.9	36269.1	35508.2	32052.0	31990.4	35616.0
62.5°	33743.1	34159.0	34485.5	32621.8	34023.4	36934.5	37778.5	36909.8	34279.1	34725.8	36358.4
65°	32258.4	32347.7	33459.7	34248.3	34845.9	37184.0	37624.5	37162.4	36139.7	37217.9	36324.5
67.5°	30330.0	30407.0	31710.0	34781.2	33786.2	34350.0	34658.0	34522.5	35563.7	38071.1	34651.9
70°	28494.1	28432.4	29809.4	33422.8	29412.0	28555.7	28811.3	28386.2	30687.3	35985.7	31371.2
72.5°	24920.7	25142.5	26621.1	29646.1	23288.1	21895.8	22453.3	21353.6	23602.3	30819.8	25462.9
75°	19520.7	19573.1	22040.5	24880.7	17567.7	15371.4	16126.1	15667.1	18079.1	25709.3	17583.1
77.5°	13517.0	13399.9	16052.2	19003.2	12528.1	11252.8	11265.2	11046.5	12623.6	18929.3	11945.9
80°	8585.2	8406.5	10048.4	11739.6	8609.8	9210.5	8908.6	8899.4	8218.6	11677.9	7223.6
82.5°	4639.1	4836.3	6348.8	7359.2	6176.3	7118.9	6524.4	6333.4	5640.3	7309.9	4620.7
85°	2113.2	2298.0	3385.4	5005.7	4691.5	4743.9	3169.8	3739.7	4666.9	5936.0	2467.4
87.5°	206.4	264.9	699.3	2362.7	1601.8	1263.0	471.3	908.7	1173.6	2110.1	197.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15007.9	15007.9	15007.9	15007.9	15007.9	15007.9	15007.9	15007.9	15007.9	15007.9	15007.9
2.5°	15950.5	15790.3	15245.1	14795.3	14317.9	13954.4	13480.0	13162.7	12944.0	12614.4	12574.3
5°	15217.4	14826.1	13877.4	12910.1	12075.3	11446.9	10809.3	10224.0	9879.0	9771.2	9632.5
7.5°	13982.1	13322.9	12103.0	10994.1	10036.1	9099.6	8378.8	7867.4	7525.5	7325.3	7085.0
10°	12965.6	12201.6	10716.8	9358.4	8569.8	7987.6	7353.0	6804.7	6382.7	6022.3	5825.1
12.5°	12281.7	11419.2	9749.6	8646.8	8036.9	7417.7	6675.3	6059.2	5437.0	5027.3	4851.7
15°	12075.3	11163.5	9450.8	8292.5	7417.7	6607.5	5775.8	4971.8	4355.7	3967.6	3838.2
17.5°	12580.5	11477.7	9447.7	7821.2	6690.7	5723.5	4657.6	3902.9	3271.4	2981.9	2889.5
20°	13523.1	12081.5	9475.4	7356.1	5902.1	4540.6	3388.5	2769.3	2467.4	2344.2	2298.0
22.5°	14838.5	13002.5	9558.6	6897.1	5039.6	3487.1	2538.3	2224.1	2116.3	2094.7	2085.5
25°	16458.8	14142.3	9838.9	6484.3	4312.6	2661.5	2122.4	1980.7	1919.1	1897.6	1894.5
27.5°	17949.7	15614.7	10177.8	6130.1	3610.3	2294.9	1919.1	1799.0	1737.4	1734.3	1740.4
30°	19295.9	16846.9	10461.2	5732.7	3077.4	2039.3	1786.7	1666.5	1608.0	1604.9	1623.4
32.5°	20460.3	17860.4	10670.6	5341.5	2781.6	1882.1	1666.5	1537.1	1487.9	1478.6	1487.9
35°	21704.8	18870.8	10575.1	5036.5	2612.2	1752.8	1577.2	1450.9	1392.4	1364.6	1364.6
37.5°	23124.9	19912.0	10411.9	4783.9	2535.2	1645.0	1500.2	1377.0	1318.4	1290.7	1287.6
40°	24674.3	20953.1	10187.0	4559.0	2458.2	1580.3	1447.8	1318.4	1247.6	1219.9	1213.7
42.5°	26042.0	21843.4	10002.2	4411.2	2331.9	1592.6	1401.6	1275.3	1186.0	1149.0	1145.9
45°	27231.1	22739.8	9968.3	4324.9	2227.2	1574.1	1389.3	1241.4	1136.7	1096.6	1090.5
47.5°	28161.4	23673.2	10162.4	4275.6	2113.2	1475.5	1469.4	1219.9	1093.6	1050.4	1044.3
50°	29295.0	24997.8	10605.9	4174.0	2008.4	1383.1	1552.5	1216.8	1059.7	1004.2	988.8
52.5°	30804.4	26722.8	11206.6	3992.2	1857.5	1296.9	1481.7	1216.8	1019.6	964.2	945.7
55°	33087.0	28922.2	11795.0	3736.6	1645.0	1182.9	1336.9	1179.8	961.1	911.8	899.5
57.5°	34599.5	30530.2	12170.8	3382.3	1380.0	1099.7	1152.1	1121.3	902.6	850.2	850.2
60°	34676.5	30961.5	11992.1	2935.7	1213.7	1022.7	1001.1	1130.5	850.2	794.8	788.6
62.5°	33789.3	29904.9	11061.9	2535.2	1124.4	939.5	905.6	991.9	797.8	742.4	733.1
65°	32403.1	27209.5	9447.7	2344.2	1075.1	865.6	816.3	813.2	742.4	690.0	677.7
67.5°	29855.6	23777.9	7762.7	2233.3	1050.4	782.4	736.2	720.8	677.7	634.6	628.4
70°	26100.6	19915.0	6225.6	2187.1	1038.1	696.2	659.2	640.7	603.8	569.9	566.8
72.5°	20306.2	16153.8	5138.2	2156.3	1031.9	616.1	576.0	551.4	529.8	499.0	499.0
75°	14585.9	11884.3	3921.4	1943.8	954.9	529.8	486.7	471.3	440.5	415.9	422.0
77.5°	9195.1	8003.0	2581.4	1429.3	739.3	425.1	388.1	378.9	354.3	320.4	341.9
80°	6210.2	5628.0	1506.3	899.5	465.1	311.1	298.8	295.7	268.0	231.0	234.1
82.5°	4226.4	4146.3	782.4	511.4	268.0	181.7	175.6	181.7	150.9	123.2	123.2
85°	1651.1	2254.9	369.7	200.2	86.3	27.7	40.0	43.1	24.6	12.3	15.4
87.5°	30.8	231.0	9.2	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°	15007.9	15007.9	15007.9	15007.9	15007.9	15007.9	15007.9	15007.9	15007.9	15007.9	15007.9
2.5°	12512.7	12485.0	12531.2	12334.1	12374.1	12448.1	12485.0	12506.6	12811.5	12740.7	12934.8
5°	9761.9	9734.2	9912.9	9937.5	10029.9	10011.4	10100.8	10122.3	10233.2	10273.3	10544.3
7.5°	7100.4	7220.5	7423.9	7528.6	7685.7	7735.0	7688.8	7802.8	7571.7	7738.1	7787.3
10°	5705.0	5560.2	5473.9	5714.2	5745.0	5973.0	5880.6	5806.6	5942.2	5948.3	6077.7
12.5°	4750.0	4438.9	4232.5	4300.3	4374.2	4472.8	4488.2	4636.1	4734.6	4827.0	4904.1
15°	3724.2	3616.4	3428.5	3336.1	3440.8	3480.9	3576.4	3699.6	3804.3	3832.1	3936.8
17.5°	2858.6	2877.1	2846.3	2790.9	2855.6	2886.4	2892.5	2895.6	2923.3	2904.9	3058.9
20°	2301.1	2365.8	2442.8	2455.1	2476.7	2492.1	2464.4	2359.6	2362.7	2427.4	2476.7
22.5°	2082.4	2094.7	2181.0	2208.7	2276.4	2248.7	2168.6	2119.3	2113.2	2128.6	2153.2
25°	1909.9	1928.4	1990.0	2033.1	2085.5	2036.2	1977.6	1931.4	1925.3	1940.7	1965.3
27.5°	1755.8	1783.6	1839.0	1882.1	1931.4	1885.2	1829.8	1789.7	1786.7	1783.6	1799.0
30°	1632.6	1663.4	1703.5	1752.8	1786.7	1746.6	1694.2	1672.7	1669.6	1663.4	1669.6
32.5°	1509.4	1558.7	1598.7	1623.4	1657.3	1626.5	1586.4	1574.1	1552.5	1534.1	1524.8
35°	1370.8	1423.2	1484.8	1515.6	1549.5	1518.7	1490.9	1438.6	1401.6	1398.5	1404.7
37.5°	1290.7	1312.3	1361.6	1413.9	1447.8	1432.4	1380.0	1327.7	1318.4	1318.4	1324.6
40°	1219.9	1229.1	1250.7	1318.4	1380.0	1333.8	1269.1	1253.7	1253.7	1250.7	1253.7
42.5°	1149.0	1158.2	1158.2	1210.6	1309.2	1235.3	1186.0	1186.0	1186.0	1189.0	1198.3
45°	1084.3	1087.4	1084.3	1121.3	1213.7	1152.1	1118.2	1127.4	1133.6	1139.8	1145.9
47.5°	1028.9	1031.9	1028.9	1059.7	1105.9	1081.2	1062.8	1075.1	1087.4	1096.6	1102.8
50°	979.6	976.5	982.7	1001.1	1022.7	1028.9	1016.5	1035.0	1041.2	1053.5	1068.9
52.5°	936.5	933.4	939.5	948.8	979.6	979.6	979.6	995.0	1007.3	1019.6	1041.2
55°	887.2	890.2	899.5	911.8	951.9	945.7	948.8	961.1	973.4	991.9	1004.2
57.5°	841.0	847.1	859.4	877.9	918.0	914.9	918.0	924.1	939.5	948.8	961.1
60°	788.6	800.9	816.3	828.6	868.7	865.6	881.0	893.3	902.6	902.6	908.7
62.5°	736.2	754.7	770.1	779.4	822.5	825.6	847.1	856.4	862.5	856.4	865.6
65°	683.9	711.6	717.7	730.1	773.2	776.3	800.9	822.5	816.3	810.2	825.6
67.5°	631.5	665.4	662.3	677.7	720.8	727.0	748.5	785.5	773.2	767.0	779.4
70°	573.0	597.6	600.7	609.9	668.5	659.2	693.1	727.0	717.7	720.8	720.8
72.5°	508.3	529.8	529.8	548.3	609.9	594.5	622.2	659.2	659.2	656.1	656.1
75°	431.3	443.6	455.9	483.6	548.3	529.8	548.3	582.2	588.4	582.2	582.2
77.5°	348.1	366.6	372.7	409.7	455.9	452.8	471.3	486.7	499.0	492.9	492.9
80°	246.4	264.9	289.6	329.6	357.3	366.6	375.8	388.1	394.3	394.3	400.5
82.5°	138.6	166.3	187.9	228.0	240.3	286.5	283.4	292.6	283.4	249.5	277.2
85°	30.8	58.5	83.2	104.7	120.1	166.3	175.6	197.1	163.3	150.9	150.9
87.5°	0.0	0.0	0.0	0.0	0.0	24.6	49.3	67.8	58.5	49.3	49.3
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°	15007.9	15007.9	15007.9	15007.9	15007.9	15007.9	15007.9	15007.9	15007.9	15007.9
2.5°	13098.0	13366.0	13689.5	14247.0	14638.2	15060.3	15485.4	15938.2	16058.3	16181.5
5°	10618.3	11145.0	11431.5	12180.1	12965.6	13963.6	14779.9	15673.3	16046.0	16132.3
7.5°	8043.0	8400.4	9152.0	9909.8	10883.2	11930.5	13181.2	14573.6	15007.9	15189.6
10°	6376.5	6863.2	7522.4	8335.7	9188.9	10316.4	11727.2	13353.7	13969.8	14071.4
12.5°	5427.7	5969.9	6687.6	7547.1	8354.1	9204.3	10627.5	12306.4	12965.6	13184.3
15°	4340.3	4996.5	5825.1	6730.8	7608.7	8539.0	9980.6	11875.1	12636.0	12891.6
17.5°	3410.0	3939.9	4836.3	5818.9	6860.1	8036.9	9845.1	12081.5	13017.9	13255.1
20°	2609.1	2988.0	3742.7	4780.8	6000.7	7540.9	9879.0	12860.8	13982.1	14305.6
22.5°	2254.9	2448.9	2907.9	3896.8	5261.4	7109.7	10017.6	13929.7	15282.1	15821.1
25°	2042.3	2144.0	2402.7	3049.6	4556.0	6690.7	10334.9	15368.3	17099.5	17456.8
27.5°	1860.6	1934.5	2094.7	2559.8	3915.2	6302.6	10704.5	16964.0	18796.8	19329.8
30°	1688.1	1786.7	1937.6	2273.4	3505.5	5948.3	11169.7	18257.8	20226.2	20722.1
32.5°	1555.6	1654.2	1792.8	2073.1	3157.4	5575.6	11446.9	19394.4	21393.6	21815.7
35°	1447.8	1531.0	1675.8	1913.0	2892.5	5292.2	11391.5	20297.0	22524.2	22955.4
37.5°	1370.8	1441.6	1586.4	1762.0	2692.3	4996.5	11363.7	21489.1	23901.1	24400.2
40°	1299.9	1373.9	1506.3	1663.4	2492.1	4648.4	11379.1	22672.0	25367.4	25866.4
42.5°	1244.5	1327.7	1435.5	1635.7	2285.7	4368.1	11379.1	23700.9	26642.7	27123.3
45°	1198.3	1287.6	1392.4	1632.6	2122.4	4155.5	11302.1	24585.0	27659.3	28069.0
47.5°	1158.2	1256.8	1407.8	1577.2	2082.4	4001.5	11234.4	25293.5	28487.9	28872.9
50°	1130.5	1247.6	1497.1	1512.5	2094.7	3955.3	11560.9	26186.8	29218.0	29550.6
52.5°	1109.0	1250.7	1494.0	1417.0	2073.1	3986.1	12241.7	27582.2	30231.4	30256.1
55°	1065.8	1247.6	1417.0	1309.2	1983.8	4038.5	13116.5	29609.2	31817.8	31836.3
57.5°	1022.7	1213.7	1315.3	1216.8	1802.1	4038.5	14170.0	31528.3	33730.8	33746.2
60°	979.6	1263.0	1155.2	1136.7	1564.9	3964.5	15282.1	32372.3	34331.5	34488.6
62.5°	936.5	1272.2	1031.9	1065.8	1392.4	3785.9	16110.7	31439.0	33518.2	33743.1
65°	887.2	1025.8	951.9	991.9	1303.0	3487.1	15848.9	29729.3	31990.4	32258.4
67.5°	828.6	868.7	865.6	914.9	1272.2	3046.6	14468.8	27566.8	30345.4	30330.0
70°	757.8	779.4	788.6	841.0	1213.7	2704.6	12056.8	24760.6	28149.0	28494.1
72.5°	683.9	702.3	711.6	757.8	1155.2	2510.6	9358.4	20894.6	24381.7	24920.7
75°	603.8	616.1	628.4	668.5	1093.6	2224.1	6666.1	15950.5	18673.6	19520.7
77.5°	520.6	520.6	536.0	576.0	921.1	1835.9	4472.8	11188.2	12651.4	13517.0
80°	422.0	425.1	418.9	462.1	677.7	1256.8	2541.4	7473.1	8418.8	8585.2
82.5°	323.4	314.2	317.3	338.8	505.2	856.4	1355.4	4642.2	4731.6	4639.1
85°	203.3	203.3	197.1	221.8	323.4	446.7	739.3	2843.2	2221.0	2113.2
87.5°	83.2	67.8	77.0	89.3	154.0	181.7	289.6	585.3	224.9	206.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)