

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: McGRAW-EDISON

Report Number: P534243

Luminaire Tested: **GALN-SA9D-727-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534243
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: McGRAW-EDISON
Catalog Number: GALN-SA9D-727-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 32424 lumens
Efficiency: N/A
Efficacy: 58.7 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

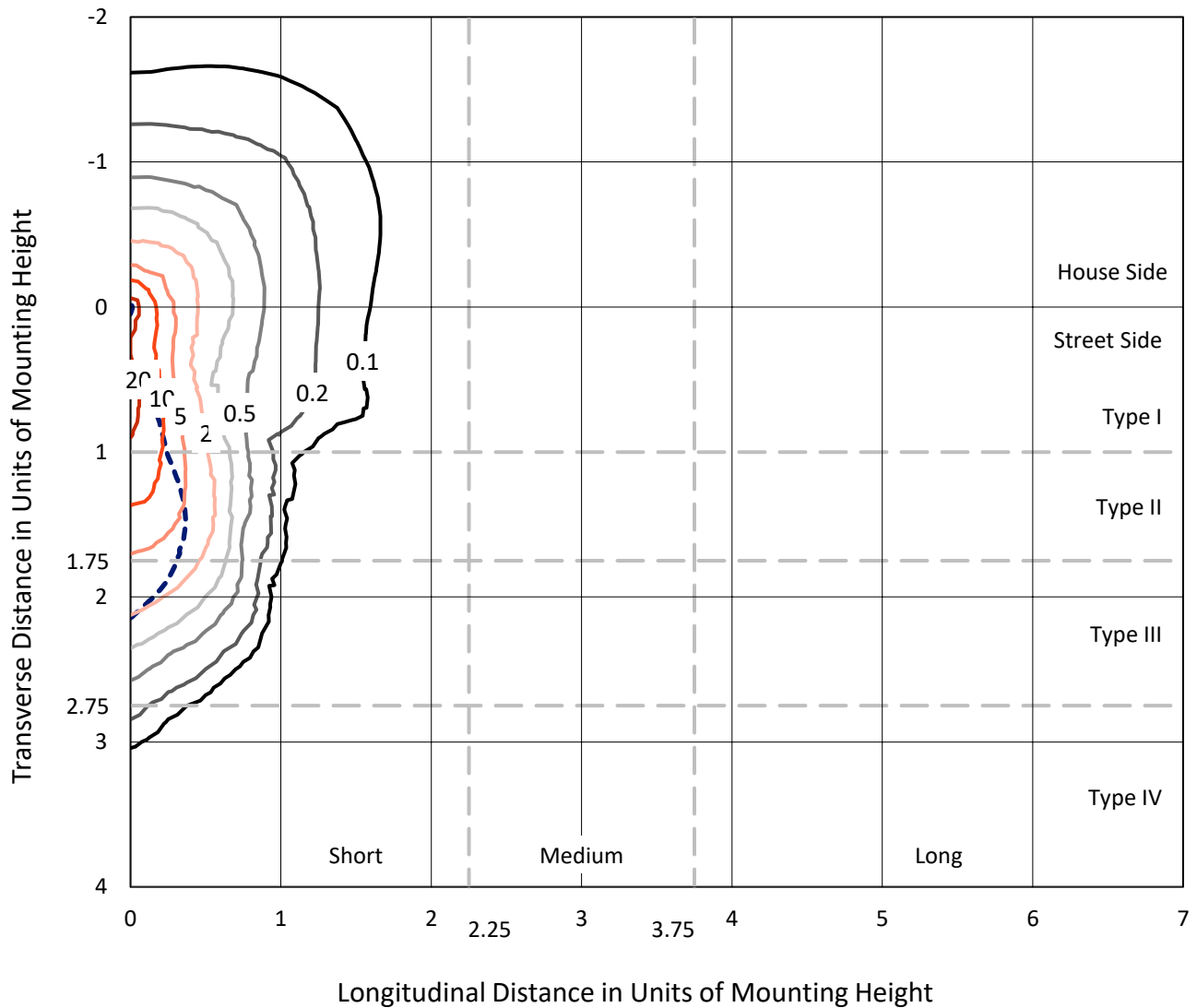
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

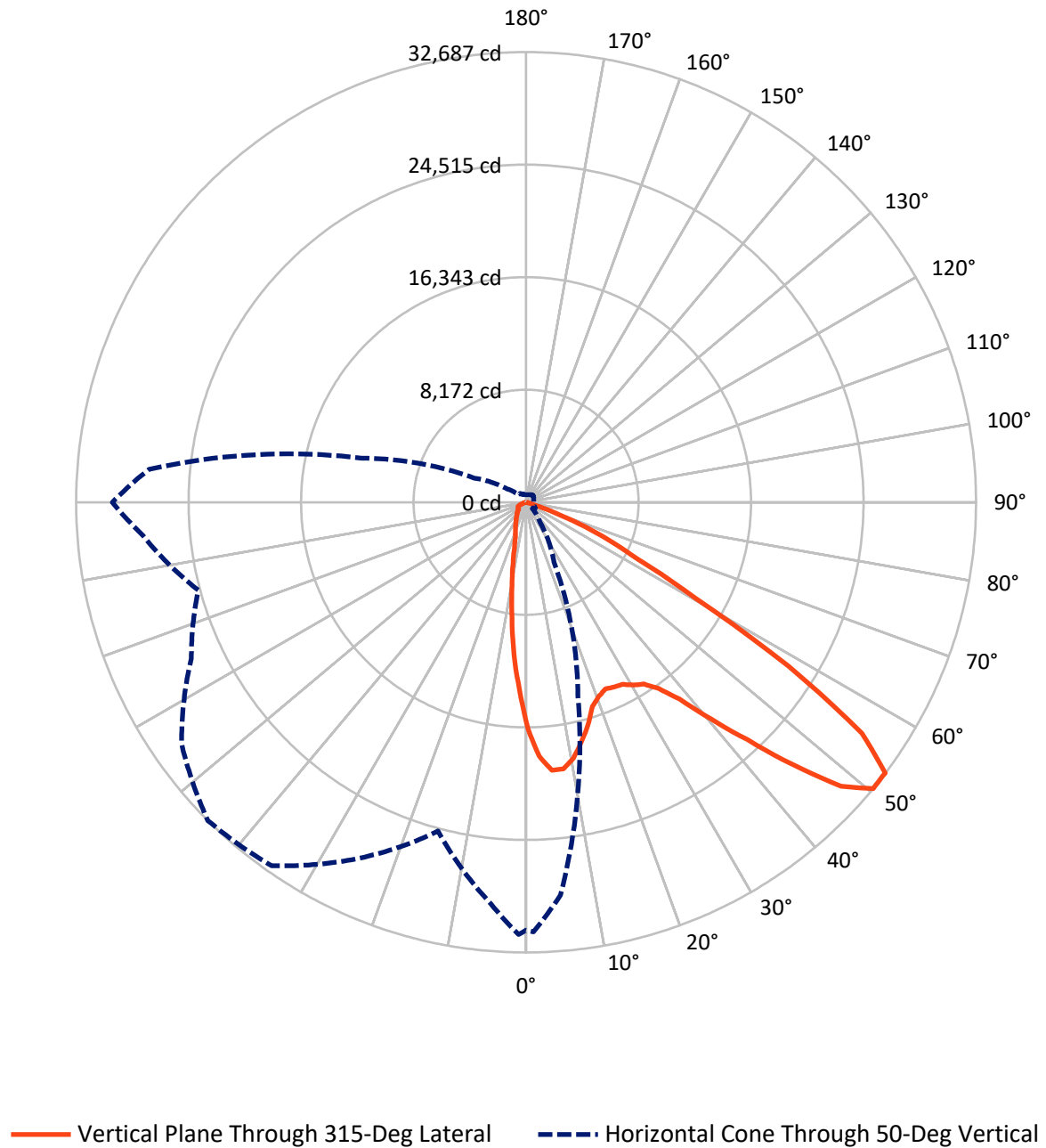
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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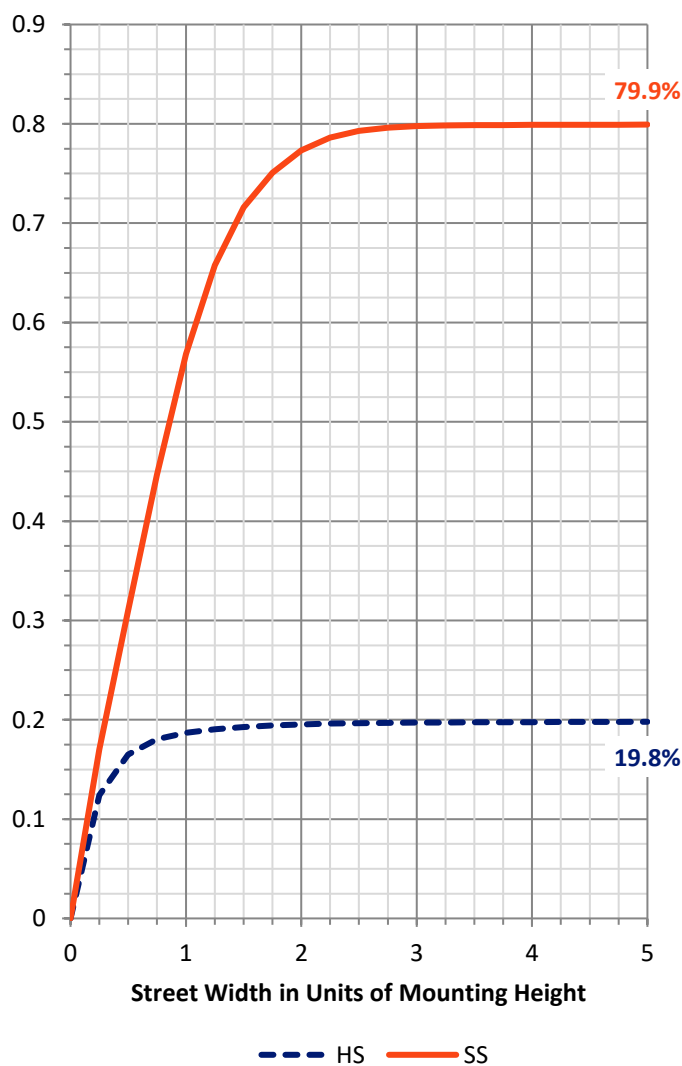
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6494.5	0.0	6494.5
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	25929.5	0.0	25929.5
	% Fixture	80.0	0.0	80.0
Total	Lumens	32424.0	0.0	32424.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1198.5	3.7
10°-20°	2382.0	7.3
20°-30°	3578.5	11.0
30°-40°	5371.2	16.6
40°-50°	7548.9	23.3
50°-60°	8142.8	25.1
60°-70°	3780.7	11.7
70°-80°	355.7	1.1
80°-90°	65.6	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°	32424.0	100.0
0°-180°	32424.0	100.0

Coefficient of Utilization



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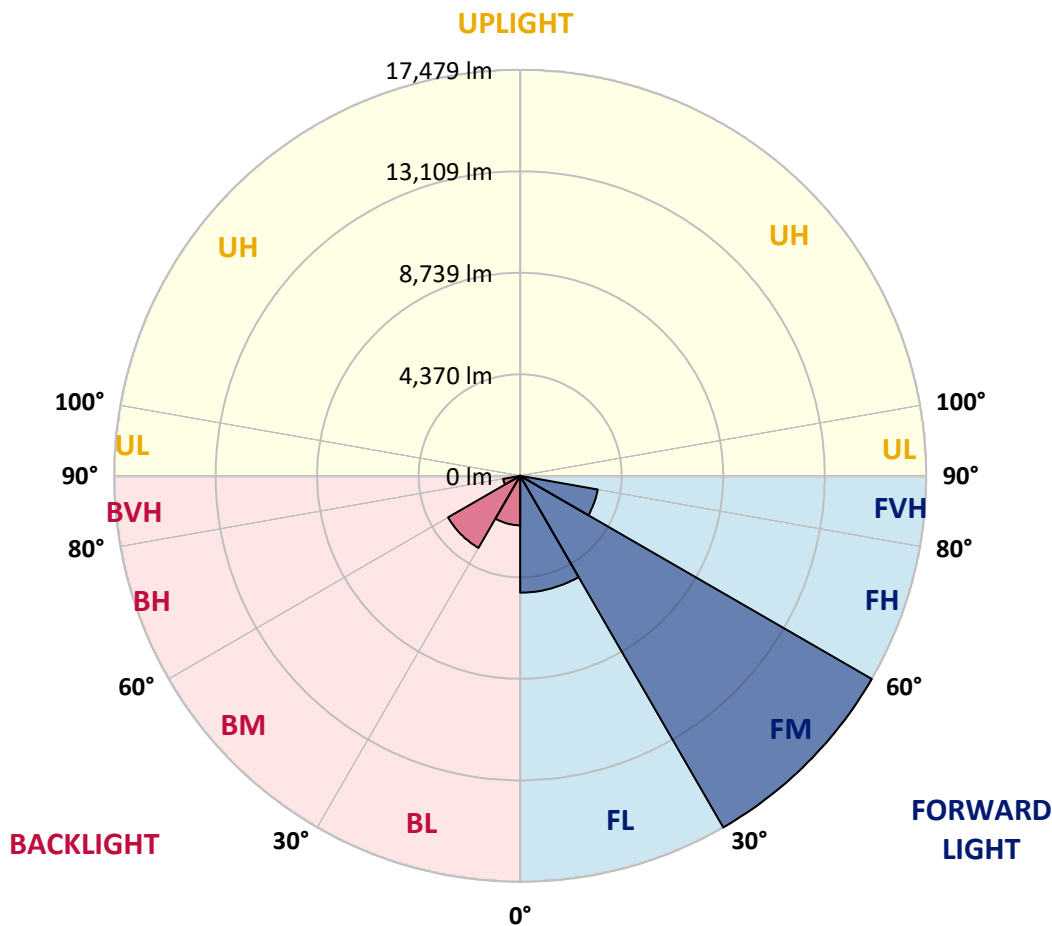
CATALOG NUMBER: GALN-SA9D-727-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5030.3	15.5			
FM (30°-60°)	17479.0	53.9			
FH (60°-80°)	3390.7	10.5			G2/5000
FVH (80°-90°)	29.5	0.1			G1/100
BL (0°-30°)	2128.7	6.6	B3/2500		
BM (30°-60°)	3584.0	11.1	B3/5000		
BH (60°-80°)	745.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	36.0	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16443.1	16443.1	16443.1	16443.1	16443.1	16443.1	16443.1	16443.1	16443.1	16443.1	16443.1
2.5°	17092.8	16829.0	16494.5	16217.9	15806.2	14976.3	14751.1	14481.0	14255.8	13953.4	13528.9
5°	15542.4	15458.8	15304.4	14262.2	13509.6	12506.0	11682.5	11335.2	10878.4	10505.3	10235.1
7.5°	14358.7	14024.2	13535.3	12486.7	11283.7	10209.4	9295.9	8761.9	8157.2	7951.3	7584.6
10°	13091.4	13168.6	12448.1	10974.9	9521.0	8652.5	8086.4	7571.8	7025.0	6664.7	6143.6
12.5°	12686.1	12435.2	11882.0	10061.4	8819.8	8009.2	7320.9	6684.0	6105.0	5526.1	5024.3
15°	12949.9	12563.9	11791.9	9868.4	8279.4	7269.4	6407.4	5545.3	5011.4	4271.6	3750.5
17.5°	13895.5	13586.7	12551.0	10074.3	8002.8	6561.8	5281.6	4393.8	3576.8	2907.8	2644.0
20°	15471.7	15034.2	13734.7	10338.0	7591.1	5706.2	4284.5	3190.8	2418.9	2135.8	1987.8
22.5°	17015.6	16777.6	15137.1	10846.2	7224.4	4947.1	3216.6	2148.7	1807.7	1756.2	1659.7
25°	19955.5	19241.5	17279.4	11766.2	6941.3	4233.0	2425.3	1730.5	1531.1	1492.5	1505.4
27.5°	21705.3	21107.1	19260.8	12377.3	6626.1	3686.2	2052.2	1589.0	1453.9	1370.3	1338.1
30°	23384.4	22689.6	20245.0	12737.6	5950.6	3107.2	1820.6	1524.6	1492.5	1370.3	1331.7
32.5°	24677.4	23995.5	21666.7	13278.0	5674.0	2734.1	1498.9	1190.1	1106.5	1093.6	1209.4
35°	26658.8	25931.9	22882.6	13573.9	5461.7	2541.1	1299.5	1061.5	965.0	926.4	932.8
37.5°	28505.2	28009.8	24008.4	13689.7	5236.6	2483.2	1164.4	952.1	868.5	842.7	836.3
40°	30049.1	28942.6	25076.3	13811.9	5140.1	2373.8	1080.8	868.5	810.6	772.0	772.0
42.5°	30756.7	29631.0	26272.9	13741.1	5114.3	2200.1	1080.8	797.7	752.7	714.1	707.6
45°	30602.4	30145.6	26806.8	13709.0	5114.3	2026.4	984.3	778.4	714.1	662.6	649.7
47.5°	31001.2	30402.9	27475.9	13844.1	5011.4	1904.2	829.9	817.0	675.5	611.1	598.3
50°	31072.0	31187.8	28640.3	14545.3	4786.2	1749.8	649.7	804.1	649.7	553.2	540.4
52°	31535.2	30814.6	28994.1	14918.4	4548.2	1634.0	546.8	688.3	624.0	514.6	501.8
52.5°	30898.3	31367.9	29077.7	15053.5	4573.9	1556.8	527.5	675.5	611.1	514.6	482.5
55°	30184.2	30634.5	28736.7	15343.0	4194.4	1222.3	411.7	488.9	553.2	450.3	431.0
57.5°	26234.3	26691.0	24973.4	14049.9	3416.0	862.0	341.0	366.7	488.9	418.2	398.9
60°	23320.1	22992.0	20959.1	11721.1	2425.3	482.5	270.2	283.1	533.9	386.0	379.6
62.5°	21312.9	20611.7	17517.4	9051.4	1479.6	321.7	212.3	218.7	411.7	360.3	360.3
65°	15767.6	14982.7	11637.5	5474.6	726.9	225.2	160.8	173.7	257.3	308.8	308.8
67.5°	8999.9	8697.6	5622.5	2470.3	302.4	141.5	122.2	135.1	199.4	250.9	238.0
70°	4136.5	3711.9	2161.5	521.1	141.5	96.5	96.5	109.4	160.8	186.6	173.7
72.5°	1209.4	1145.1	527.5	83.6	57.9	57.9	64.3	83.6	122.2	141.5	128.7
75°	90.1	57.9	38.6	25.7	25.7	38.6	51.5	83.6	122.2	135.1	109.4
77.5°	6.4	12.9	6.4	6.4	19.3	38.6	57.9	102.9	160.8	167.3	122.2
80°	6.4	6.4	0.0	6.4	19.3	38.6	64.3	115.8	180.1	193.0	102.9
82.5°	0.0	0.0	0.0	6.4	25.7	51.5	77.2	122.2	167.3	205.9	109.4
85°	0.0	0.0	0.0	6.4	38.6	70.8	90.1	32.2	19.3	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°	16443.1	16443.1	16443.1	16443.1	16443.1	16443.1	16443.1	16443.1	16443.1	16443.1	16443.1
2.5°	13831.2	13663.9	13599.6	13657.5	13638.2	13618.9	13972.7	13895.5	13882.7	13998.5	13972.7
5°	10383.1	10087.1	10897.7	10569.6	10910.6	11116.4	11155.0	11174.3	11412.4	11161.5	11489.6
7.5°	7398.1	7475.3	7468.9	7687.6	8080.0	8427.4	8633.2	8472.4	8459.6	8427.4	8285.9
10°	5912.0	5776.9	5751.2	5699.7	5822.0	6117.9	6368.8	6169.4	6027.8	6220.8	6162.9
12.5°	4831.3	4644.7	4541.8	4335.9	4342.4	4541.8	4541.8	4541.8	4683.3	4792.7	4876.3
15°	3705.5	3551.1	3551.1	3345.2	3300.2	3306.6	3409.6	3422.4	3647.6	3711.9	3744.1
17.5°	2592.5	2508.9	2605.4	2689.0	2637.6	2650.4	2689.0	2701.9	2734.1	2708.3	2772.7
20°	1994.3	1981.4	2007.1	2155.1	2264.5	2328.8	2283.8	2219.4	2180.8	2090.8	2090.8
22.5°	1691.9	1717.6	1762.7	1884.9	2026.4	2065.0	2013.6	1865.6	1749.8	1736.9	1743.4
25°	1505.4	1531.1	1601.8	1679.0	1756.2	1820.6	1769.1	1659.7	1595.4	1537.5	1537.5
27.5°	1389.6	1402.4	1441.0	1498.9	1563.2	1614.7	1595.4	1537.5	1466.8	1441.0	1383.1
30°	1299.5	1318.8	1363.8	1376.7	1434.6	1460.3	1428.2	1415.3	1370.3	1338.1	1318.8
32.5°	1254.5	1248.0	1280.2	1293.1	1299.5	1318.8	1280.2	1299.5	1293.1	1241.6	1222.3
35°	945.7	997.1	1080.8	1151.5	1170.8	1196.6	1190.1	1164.4	1093.6	1035.7	965.0
37.5°	849.2	881.3	926.4	984.3	1061.5	1093.6	1080.8	1016.4	932.8	894.2	881.3
40°	784.8	804.1	842.7	881.3	958.5	1016.4	971.4	913.5	849.2	817.0	797.7
42.5°	726.9	733.4	752.7	791.3	849.2	939.2	862.0	784.8	759.1	739.8	726.9
45°	662.6	662.6	688.3	707.6	772.0	855.6	778.4	707.6	694.8	681.9	675.5
47.5°	611.1	617.6	630.4	656.2	707.6	765.5	714.1	656.2	624.0	617.6	604.7
50°	546.8	553.2	579.0	604.7	669.0	701.2	669.0	604.7	572.5	553.2	553.2
52°	495.4	514.6	540.4	591.8	636.9	688.3	649.7	579.0	540.4	521.1	508.2
52.5°	488.9	501.8	527.5	585.4	636.9	681.9	643.3	572.5	527.5	514.6	501.8
55°	437.5	456.8	501.8	572.5	630.4	681.9	630.4	566.1	501.8	469.6	456.8
57.5°	418.2	431.0	488.9	579.0	624.0	681.9	630.4	566.1	501.8	443.9	431.0
60°	398.9	424.6	488.9	559.7	617.6	688.3	636.9	559.7	488.9	418.2	418.2
62.5°	379.6	398.9	482.5	546.8	591.8	662.6	611.1	546.8	469.6	398.9	392.4
65°	328.1	360.3	424.6	456.8	508.2	572.5	521.1	476.1	411.7	353.8	347.4
67.5°	250.9	263.8	315.2	353.8	386.0	443.9	418.2	360.3	315.2	270.2	270.2
70°	173.7	186.6	225.2	244.5	276.6	308.8	289.5	244.5	212.3	186.6	180.1
72.5°	122.2	128.7	141.5	154.4	167.3	180.1	173.7	141.5	122.2	115.8	109.4
75°	96.5	109.4	115.8	109.4	102.9	96.5	96.5	83.6	70.8	64.3	64.3
77.5°	96.5	102.9	96.5	83.6	70.8	64.3	57.9	51.5	38.6	32.2	38.6
80°	83.6	83.6	83.6	70.8	64.3	57.9	51.5	45.0	38.6	32.2	32.2
82.5°	90.1	90.1	83.6	70.8	70.8	57.9	57.9	51.5	45.0	32.2	32.2
85°	0.0	0.0	0.0	12.9	32.2	57.9	57.9	51.5	45.0	38.6	38.6
87.5°	0.0	0.0	0.0	0.0	6.4	12.9	25.7	32.2	38.6	38.6	38.6
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	16443.1	16443.1	16443.1	16443.1	16443.1	16443.1	16443.1	16443.1	16443.1	16443.1	16443.1
2.5°	14204.3	14448.8	14912.0	15375.2	15658.2	15992.7	16597.5	16919.1	17337.3	17543.1	17948.4
5°	11444.5	12023.5	12229.4	12756.9	13323.0	13889.1	14789.7	15780.4	16603.9	17170.0	17903.4
7.5°	8350.2	8485.3	9283.0	9636.8	10563.2	11592.5	12821.2	14069.2	15111.4	16037.8	16597.5
10°	6259.4	6754.8	7256.6	7932.0	8678.3	9739.7	10917.0	12293.7	13644.6	14571.0	15278.7
12.5°	5030.7	5423.1	6092.2	6819.1	7739.0	8440.3	9623.9	10987.8	12737.6	13644.6	14577.5
15°	3808.4	4310.2	5069.3	5822.0	6793.4	7533.2	8729.7	10447.4	12699.0	13947.0	14751.1
17.5°	2824.1	3165.1	3847.0	4689.7	5680.4	6722.6	8337.3	10389.5	13130.0	14616.0	15445.9
20°	2161.5	2277.3	2708.3	3461.0	4535.3	5899.2	7700.4	10640.4	14403.8	16243.6	17086.4
22.5°	1749.8	1801.3	1968.5	2489.6	3531.8	5178.7	7398.1	10814.1	15838.3	18192.9	19318.7
25°	1524.6	1511.8	1621.1	1846.3	2759.8	4503.2	7012.1	11470.3	17594.6	20483.1	21493.1
27.5°	1389.6	1389.6	1441.0	1601.8	2290.2	4065.7	6767.6	11939.9	19363.7	22496.6	23043.4
30°	1318.8	1331.7	1479.6	1531.1	1904.2	3544.6	6362.4	12415.9	21055.6	23783.2	24535.9
32.5°	1222.3	1170.8	1138.7	1267.3	1601.8	3075.0	5957.1	12615.3	22425.9	25359.4	26002.7
35°	939.2	913.5	952.1	1048.6	1376.7	2676.2	5506.8	12840.5	24002.0	27186.4	27315.0
37.5°	849.2	842.7	868.5	952.1	1158.0	2328.8	5185.1	12782.6	25205.0	28698.1	28350.8
40°	784.8	784.8	804.1	874.9	1035.7	2084.3	4850.6	12731.1	26369.4	30396.5	29380.1
42.5°	733.4	733.4	765.5	810.6	984.3	1923.5	4599.7	12660.4	27347.2	31438.7	29984.8
45°	662.6	681.9	733.4	778.4	997.1	1814.1	4413.1	12390.2	27681.7	31425.8	29695.3
47.5°	611.1	636.9	688.3	752.7	900.6	1782.0	4284.5	12152.2	27565.9	30653.8	28788.2
50°	553.2	585.4	656.2	765.5	765.5	1717.6	4149.4	12364.5	27482.3	30055.5	27919.7
52°	514.6	540.4	630.4	746.2	669.0	1582.5	4065.7	12776.2	27823.2	29978.3	27533.8
52.5°	508.2	527.5	611.1	733.4	636.9	1556.8	4007.8	12872.7	27932.6	29785.3	27797.5
55°	450.3	476.1	559.7	572.5	521.1	1280.2	3821.3	13091.4	27392.2	29405.8	27546.6
57.5°	424.6	437.5	495.4	469.6	450.3	965.0	3287.3	12750.4	24330.1	26118.5	25629.6
60°	392.4	405.3	463.2	366.7	379.6	675.5	2470.3	11071.4	19537.4	21763.2	22644.6
62.5°	379.6	373.1	437.5	295.9	321.7	488.9	1743.4	8999.9	15053.5	17916.2	19440.9
65°	334.5	328.1	315.2	250.9	276.6	379.6	1042.2	5873.4	10608.2	13554.6	14390.9
67.5°	257.3	270.2	231.6	199.4	231.6	295.9	579.0	2631.1	5564.6	8131.5	8806.9
70°	180.1	193.0	186.6	173.7	205.9	244.5	334.5	900.6	2303.1	4271.6	4709.0
72.5°	109.4	135.1	141.5	148.0	180.1	212.3	238.0	289.5	611.1	1511.8	1878.5
75°	64.3	90.1	109.4	128.7	148.0	180.1	199.4	205.9	212.3	283.1	456.8
77.5°	45.0	64.3	96.5	122.2	148.0	180.1	212.3	225.2	212.3	199.4	212.3
80°	38.6	64.3	90.1	115.8	154.4	186.6	212.3	212.3	205.9	180.1	193.0
82.5°	38.6	64.3	96.5	122.2	148.0	180.1	205.9	212.3	193.0	180.1	186.6
85°	45.0	70.8	102.9	128.7	160.8	148.0	135.1	109.4	102.9	83.6	90.1
87.5°	45.0	64.3	64.3	70.8	77.2	77.2	77.2	70.8	57.9	51.5	51.5
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°	16443.1	16443.1	16443.1	16443.1	16443.1	16443.1	16443.1	16443.1	16443.1	16443.1
2.5°	17967.7	18482.4	18463.1	18475.9	18398.7	17877.6	17626.7	16989.9	17170.0	17092.8
5°	18656.0	19164.3	19601.7	19550.3	18958.4	18250.8	17202.2	16211.5	15941.3	15542.4
7.5°	17967.7	19190.0	19595.3	19537.4	18662.5	17755.4	16082.8	15092.1	14622.5	14358.7
10°	16874.1	18289.4	18791.1	18894.1	18302.2	16925.5	15388.0	13799.0	13548.2	13091.4
12.5°	16250.1	17279.4	17588.2	17864.8	17658.9	16629.6	14860.5	13335.9	12988.5	12686.1
15°	15741.8	16353.0	16481.7	16796.9	16919.1	16365.9	15137.1	13837.6	12982.0	12949.9
17.5°	16211.5	15960.6	15491.0	15587.5	15973.4	16372.3	15851.2	14828.3	13998.5	13895.5
20°	16989.9	15883.4	14821.9	15059.9	15381.6	16603.9	16932.0	16211.5	15735.4	15471.7
22.5°	17884.1	16018.5	14609.6	14725.4	15336.6	17125.0	18681.8	18282.9	17395.2	17015.6
25°	19537.4	16391.6	14776.9	14854.1	15690.4	17851.9	20264.3	20560.3	20032.7	19955.5
27.5°	21152.1	17356.6	15143.6	14969.9	15870.5	18559.6	21222.9	22811.8	21885.5	21705.3
30°	21975.5	18141.4	15690.4	15394.5	16616.7	18990.6	21801.8	24278.6	23468.0	23384.4
32.5°	23236.4	18855.5	16115.0	15735.4	17034.9	19524.5	22882.6	25880.4	25095.6	24677.4
35°	23763.9	19633.9	17047.8	16603.9	18231.5	20270.8	23435.9	27308.6	27064.1	26658.8
37.5°	24780.4	20470.2	18147.8	18122.1	19678.9	21242.2	24433.0	29251.4	29206.4	28505.2
40°	24864.0	21383.7	19884.8	20695.3	21917.6	22934.1	25307.9	29791.8	30525.2	30049.1
42.5°	24992.7	22985.5	22889.0	23558.1	24606.7	24388.0	25340.1	29920.4	31039.8	30756.7
45°	25050.6	24587.4	25944.8	27179.9	27617.4	26292.2	25037.7	29676.0	31310.0	30602.4
47.5°	24587.4	25964.1	28415.1	30801.8	30930.4	27463.0	24909.0	29425.1	31470.8	31001.2
50°	24651.7	26826.1	30550.9	32686.7	32217.1	28498.7	24709.6	29270.7	31387.2	31072.0
52°	24497.3	26845.4	30853.2	32648.1	32320.0	27926.2	24368.7	28678.8	31310.0	31535.2
52.5°	24671.0	26729.6	30538.0	32673.8	32249.2	28209.2	24323.6	29006.9	31355.0	30898.3
55°	24072.7	25352.9	28691.7	29598.8	29534.5	25603.8	22940.5	27919.7	30177.8	30184.2
57.5°	21756.8	21975.5	22503.1	22483.8	22187.8	20129.2	19621.0	25674.6	26903.3	26234.3
60°	19170.7	16089.2	14667.5	14088.5	13760.4	13425.9	17356.6	23487.3	23603.1	23320.1
62.5°	16565.3	11155.0	9263.7	9102.9	9180.1	10402.4	16777.6	22618.9	21924.1	21312.9
65°	13368.0	8131.5	6729.0	6516.8	7269.4	8588.2	13580.3	17343.7	16275.8	15767.6
67.5°	8395.2	5931.3	4548.2	4149.4	5056.4	5912.0	8922.7	10897.7	9701.1	8999.9
70°	4979.2	3313.1	2058.6	1846.3	2077.9	3152.2	4998.5	5436.0	4496.8	4136.5
72.5°	1962.1	1215.9	572.5	488.9	508.2	1106.5	1839.9	1794.8	1357.4	1209.4
75°	527.5	366.7	199.4	160.8	135.1	205.9	295.9	193.0	70.8	90.1
77.5°	244.5	218.7	173.7	135.1	102.9	77.2	38.6	12.9	12.9	6.4
80°	212.3	186.6	160.8	135.1	102.9	64.3	32.2	6.4	6.4	6.4
82.5°	199.4	173.7	148.0	122.2	96.5	64.3	32.2	6.4	0.0	0.0
85°	83.6	109.4	122.2	115.8	102.9	64.3	32.2	6.4	0.0	0.0
87.5°	45.0	38.6	32.2	25.7	19.3	12.9	12.9	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)