

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: P946061

Luminaire Tested: **GALN-SB1D-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7495 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

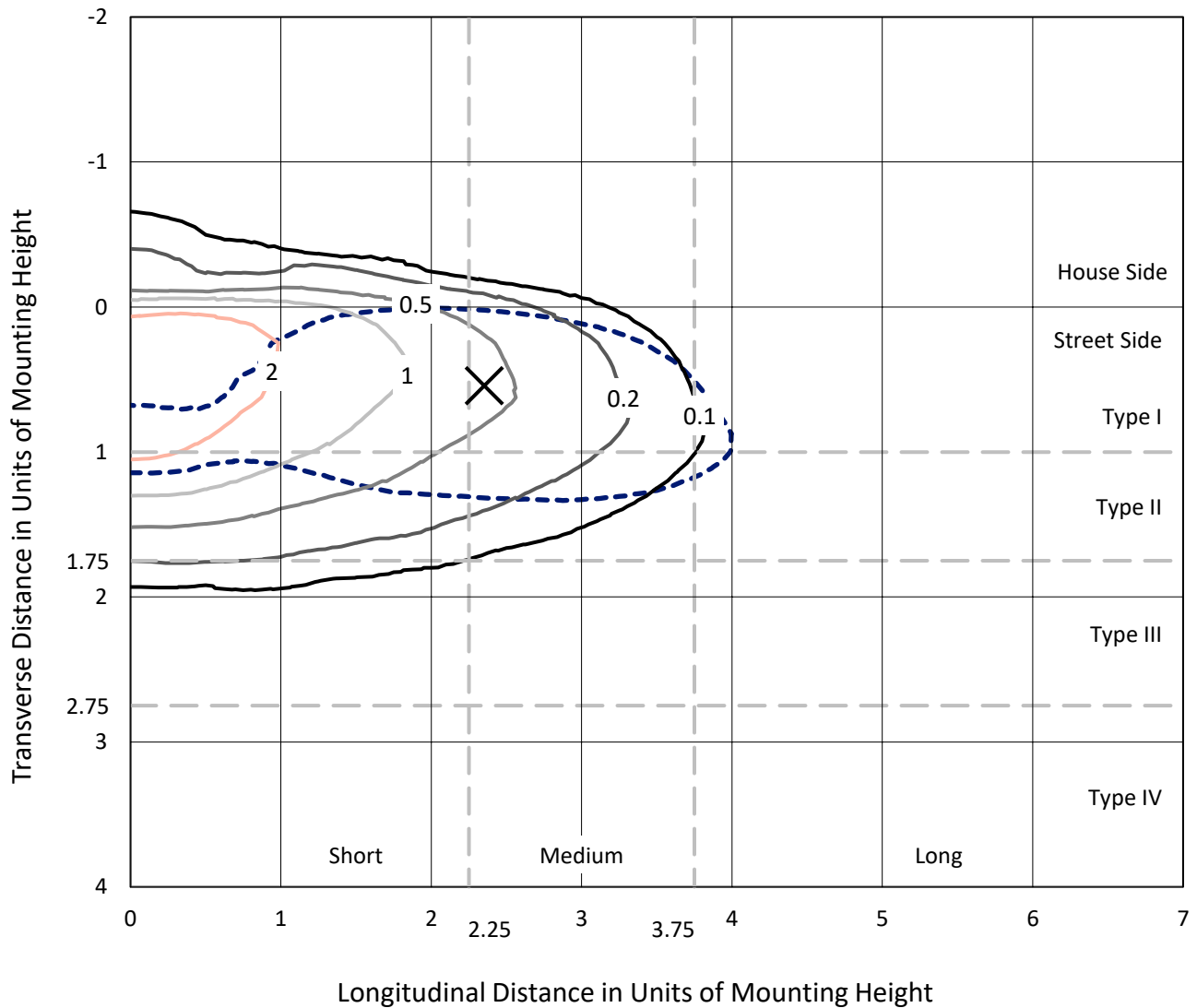
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

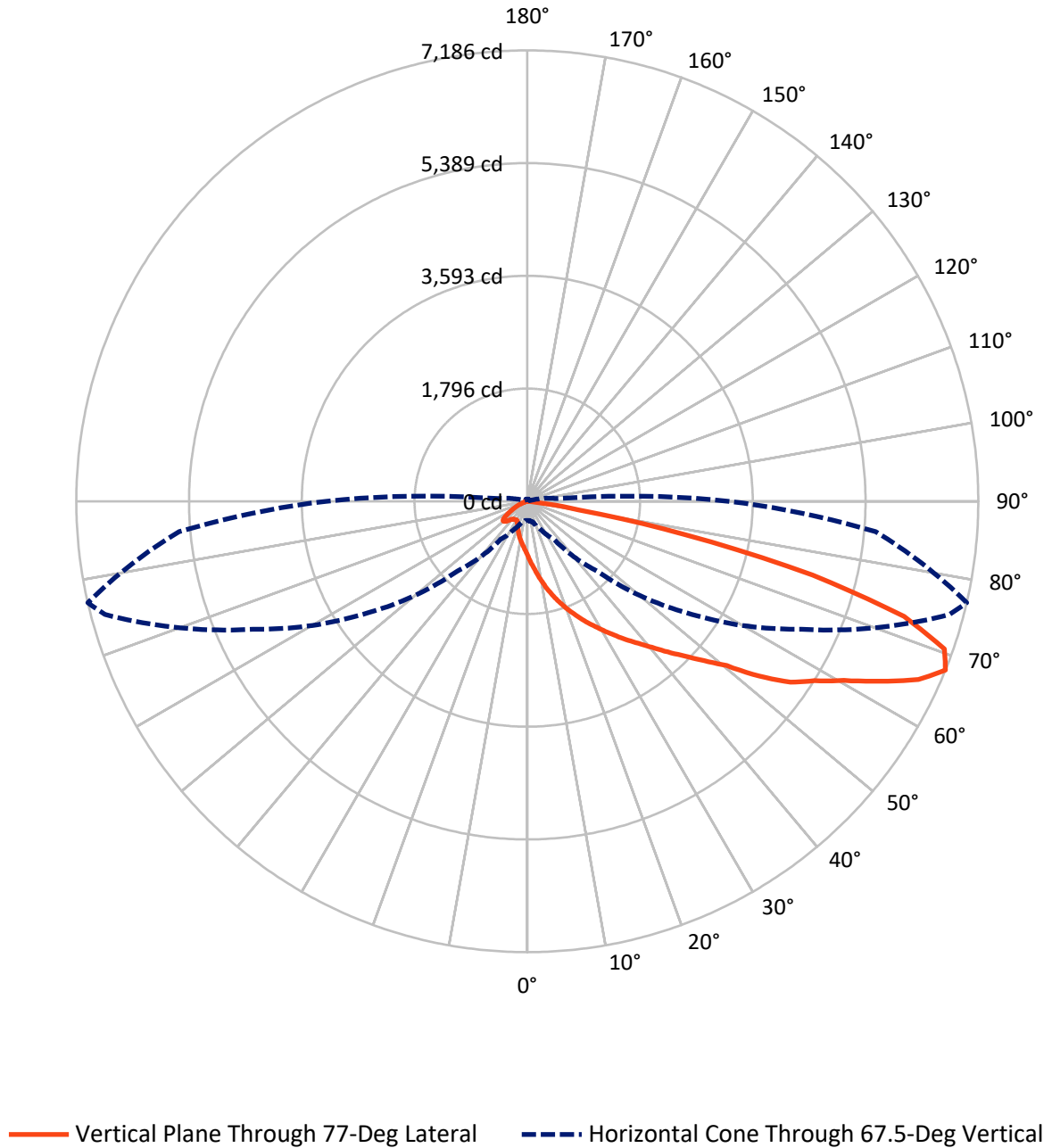
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	551.4	0.0	551.4
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	6943.6	0.0	6943.6
	% Fixture	92.6	0.0	92.6
Total	Lumens	7495.0	0.0	7495.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	1.2
10°-20°	308.9	4.1
20°-30°	596.1	8.0
30°-40°	1034.9	13.8
40°-50°	1502.6	20.0
50°-60°	1725.6	23.0
60°-70°	1498.1	20.0
70°-80°	705.6	9.4
80°-90°	34.9	0.5
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°	7495.0	100.0
0°-180°	7495.0	100.0

Coefficient of Utilization



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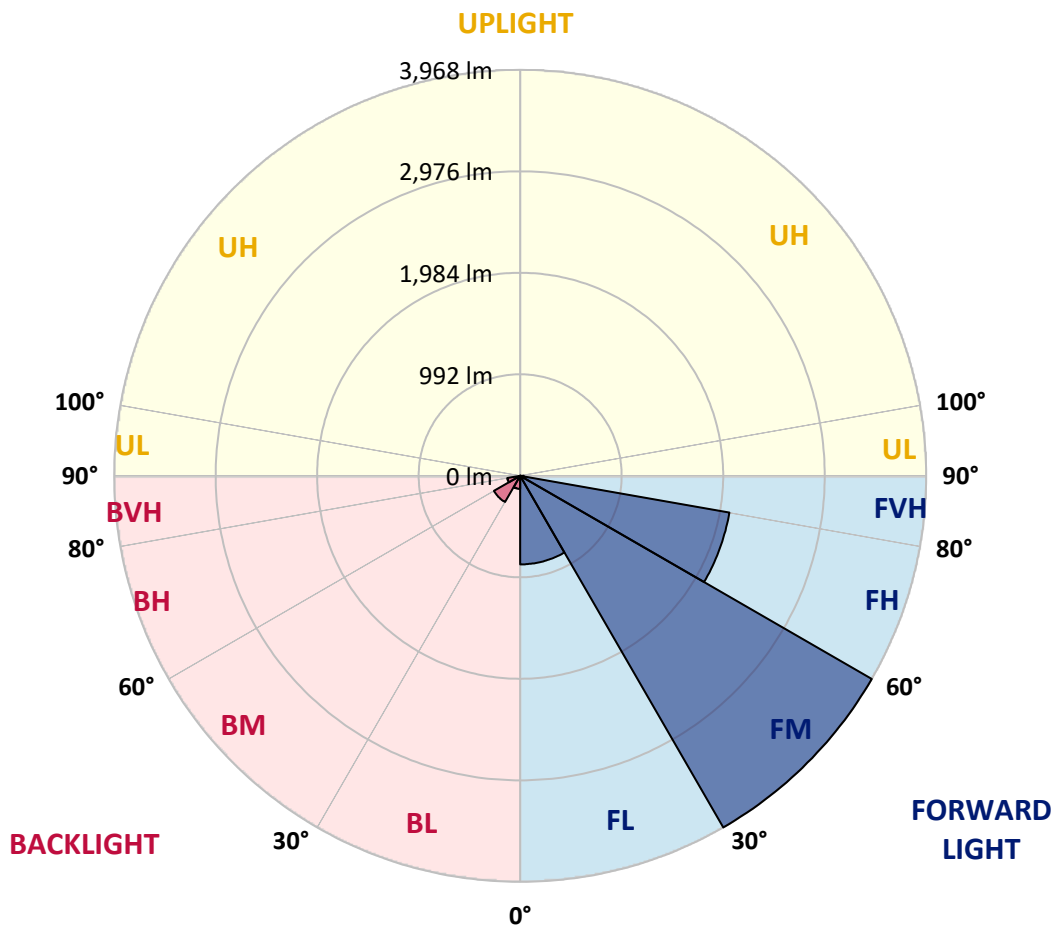
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	865.6	11.5			
FM (30°-60°)	3967.6	52.9			
FH (60°-80°)	2076.1	27.7			G2/5000
FVH (80°-90°)	34.3	0.5			G1/100
BL (0°-30°)	127.7	1.7	B1/500		
BM (30°-60°)	295.5	3.9	B1/1000		
BH (60°-80°)	127.7	1.7	B1/500		G1/500
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	864.3	864.3	864.3	864.3	864.3	864.3	864.3	864.3	864.3	864.3
2.5°	1196.6	1204.0	1193.3	1172.9	1142.1	1122.1	1073.3	1027.2	976.0	959.7
5°	1458.6	1465.1	1453.0	1430.7	1389.7	1350.6	1286.4	1190.1	1090.0	1057.9
7.5°	1652.7	1656.4	1651.8	1631.3	1592.2	1548.0	1476.3	1362.3	1213.8	1178.4
10°	1792.3	1804.4	1803.0	1795.1	1769.1	1733.2	1656.9	1527.0	1352.5	1306.9
12.5°	1884.9	1898.4	1906.4	1924.0	1922.6	1899.8	1832.8	1695.5	1490.7	1437.2
15°	1911.9	1926.4	1956.6	1997.6	2033.9	2045.5	1998.5	1860.7	1642.9	1574.5
17.5°	1896.6	1918.9	1955.2	2019.9	2099.5	2152.1	2147.0	2020.4	1781.2	1703.0
20°	1930.6	1952.0	1980.4	2034.8	2127.4	2222.8	2261.0	2173.0	1918.5	1836.5
22.5°	2118.6	2114.9	2117.7	2126.5	2181.9	2276.4	2355.0	2311.7	2054.4	1970.6
25°	2416.5	2399.7	2371.3	2323.4	2309.4	2355.0	2436.9	2434.6	2197.7	2107.9
27.5°	2758.1	2755.3	2688.7	2573.3	2508.1	2490.5	2529.6	2554.2	2339.7	2243.8
30°	3085.3	3092.7	3002.9	2874.4	2754.8	2685.5	2650.1	2667.8	2483.9	2390.4
32.5°	3370.1	3378.0	3280.3	3129.9	2981.9	2898.2	2823.7	2779.9	2641.3	2539.3
35°	3610.7	3618.6	3506.5	3340.3	3182.5	3106.7	3022.4	2902.8	2799.5	2704.6
37.5°	3825.7	3823.4	3673.1	3505.5	3350.6	3290.5	3246.3	3054.1	2962.4	2870.7
40°	3952.8	3962.6	3834.1	3649.4	3499.0	3455.3	3452.5	3241.6	3150.4	3061.5
42.5°	3990.0	4007.3	3914.2	3762.4	3626.1	3578.6	3651.7	3444.6	3369.2	3282.6
45°	3923.0	3939.8	3897.4	3792.2	3712.6	3681.9	3823.0	3654.9	3602.8	3517.2
47.5°	3727.5	3748.5	3758.7	3736.4	3735.5	3766.6	3976.5	3876.5	3880.2	3792.7
50°	3349.2	3384.5	3478.5	3557.7	3680.1	3833.7	4125.9	4116.6	4193.0	4117.6
52.5°	2661.3	2711.5	3035.5	3251.9	3526.9	3821.1	4290.2	4502.0	4741.7	4631.4
55°	2138.6	2138.6	2402.0	2806.9	3228.1	3738.2	4361.9	4752.4	5115.4	5089.4
57.5°	1743.5	1764.4	1932.4	2290.3	2795.8	3540.9	4406.1	4909.7	5416.6	5397.5
60°	1076.0	1121.2	1438.6	1791.9	2303.8	3189.5	4378.2	5068.9	5781.9	5797.3
62.5°	606.0	622.7	764.2	1289.2	1791.4	2717.1	4164.6	5157.8	6249.2	6314.3
65°	418.4	426.8	481.2	802.4	1241.7	2163.3	3747.1	5102.4	6717.4	6849.1
67.5°	303.9	308.1	342.1	490.1	736.8	1568.5	3092.7	4823.1	6965.5	7185.6
70°	233.6	236.4	261.1	322.1	435.2	968.1	2246.1	4267.9	6785.8	7048.8
72.5°	189.9	192.7	211.8	238.3	288.6	572.5	1361.4	3466.0	5992.7	6276.6
75°	160.1	163.8	181.0	198.3	226.2	367.7	638.6	2413.7	4506.7	4692.8
77.5°	88.9	81.9	147.1	164.3	190.8	232.7	298.8	1420.5	2524.0	2575.6
80°	55.4	57.2	116.8	132.2	146.6	117.3	136.8	546.9	875.0	831.2
82.5°	3.3	7.4	89.8	95.4	100.5	50.3	51.7	185.7	210.8	193.6
85°	0.0	0.0	41.0	33.0	34.9	14.4	14.9	43.3	28.4	30.7
87.5°	0.0	0.0	0.0	0.9	0.0	1.4	2.8	3.7	1.4	1.9
90°	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
864.3	0°	864.3	864.3	864.3	864.3	864.3	864.3	864.3	864.3	864.3	864.3
908.5	2.5°	875.9	843.3	777.3	712.6	660.0	611.1	576.2	543.1	526.4	525.5
967.1	5°	902.4	834.0	701.9	585.0	491.0	415.6	366.8	331.8	314.2	308.1
1039.3	7.5°	939.7	836.8	635.8	473.3	362.6	297.9	269.9	258.8	255.0	250.9
1120.7	10°	986.7	843.3	576.7	381.2	285.8	253.2	242.0	237.4	234.6	231.8
1212.4	12.5°	1039.3	849.4	518.0	316.5	251.3	234.6	226.7	221.1	217.4	214.1
1306.4	15°	1090.5	853.1	457.0	271.3	233.6	220.1	211.8	205.7	200.6	196.9
1398.6	17.5°	1141.2	858.2	399.8	244.3	219.2	205.7	197.3	189.9	185.7	181.5
1495.4	20°	1197.5	857.3	345.8	225.3	204.8	191.3	182.4	175.5	171.3	166.6
1597.8	22.5°	1249.7	852.6	298.3	209.0	189.9	176.9	167.1	160.1	155.9	152.2
1702.5	25°	1309.7	848.9	258.8	194.1	175.9	162.9	152.2	145.7	141.0	137.8
1807.7	27.5°	1367.4	843.3	229.9	180.6	162.4	149.9	139.6	132.2	128.0	125.7
1916.1	30°	1424.2	841.9	219.2	167.6	150.3	137.8	127.5	120.5	117.3	116.4
2035.3	32.5°	1492.6	845.7	223.9	162.9	139.2	126.6	116.8	111.7	108.4	108.4
2167.9	35°	1565.7	844.7	230.8	167.1	131.7	115.4	108.0	104.7	101.5	101.5
2315.0	37.5°	1657.4	846.1	236.4	174.1	128.9	106.1	101.9	97.7	95.9	95.9
2476.0	40°	1794.2	892.2	233.6	180.1	128.0	99.6	91.2	89.8	88.4	88.4
2658.0	42.5°	1961.7	992.3	237.4	180.6	127.5	94.9	83.8	86.6	83.3	82.8
2863.3	45°	2145.1	1101.6	261.1	170.8	127.1	92.6	80.1	83.3	78.2	78.2
3101.1	47.5°	2327.1	1210.1	285.3	156.8	125.7	92.2	76.8	74.9	73.5	74.0
3411.1	50°	2578.0	1298.5	294.6	137.8	122.4	91.2	70.7	71.2	70.3	71.2
3848.1	52.5°	2851.2	1317.1	283.4	116.4	113.1	88.4	66.6	68.4	68.0	68.9
4155.7	55°	3021.5	1297.1	234.1	96.8	98.7	77.3	62.4	66.1	66.1	66.1
4456.4	57.5°	3197.4	1212.0	166.2	78.7	81.9	63.3	58.6	63.8	63.3	62.8
4818.5	60°	3324.0	1074.2	109.4	64.7	65.2	52.1	54.5	60.0	59.6	57.2
5191.8	62.5°	3418.5	922.0	70.3	54.9	49.8	47.0	49.8	54.5	52.6	47.5
5508.2	65°	3407.8	711.2	54.0	47.0	41.0	41.0	43.3	47.5	41.9	33.5
5568.7	67.5°	3209.1	481.2	44.7	39.6	34.4	34.0	35.8	39.6	35.8	28.4
5258.8	70°	2854.0	314.6	35.8	30.7	27.5	25.1	28.9	34.0	30.3	22.8
4476.9	72.5°	2316.4	191.8	27.0	22.3	20.0	16.3	22.8	27.9	24.2	16.8
3113.2	75°	1498.7	97.7	18.6	14.4	10.7	9.8	16.8	20.9	16.8	10.2
1381.4	77.5°	573.4	41.0	10.2	6.5	5.6	4.7	9.3	12.6	7.0	2.3
267.6	80°	110.3	17.2	5.1	3.3	2.8	1.9	1.4	0.9	0.0	0.0
47.5	82.5°	19.1	5.6	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
9.3	85°	6.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.3	87.5°	2.3	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

(END O

<u>180°</u>
864.3
524.5
307.2
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230.8
213.2
196.4
181.0
166.2
151.7
137.3
125.7
115.9
108.4
101.5
95.9
88.4
82.4
78.2
74.0
71.2
68.9
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