

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: P946586

Luminaire Tested: **GALN-SB2A-940-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946586  
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-SB2A-940-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

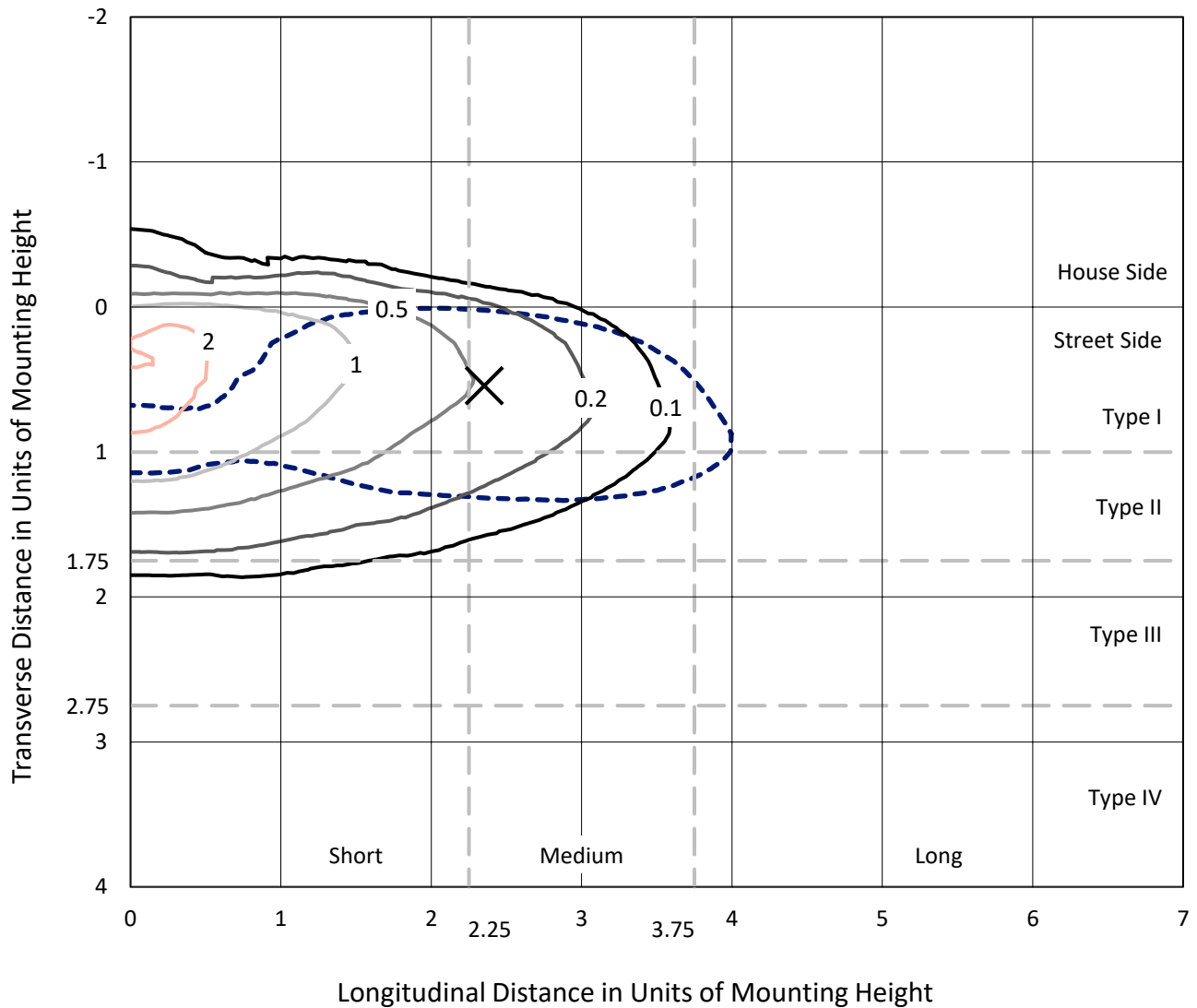
Lumens per Lamp: N/A  
Luminaire Lumens: 5504 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

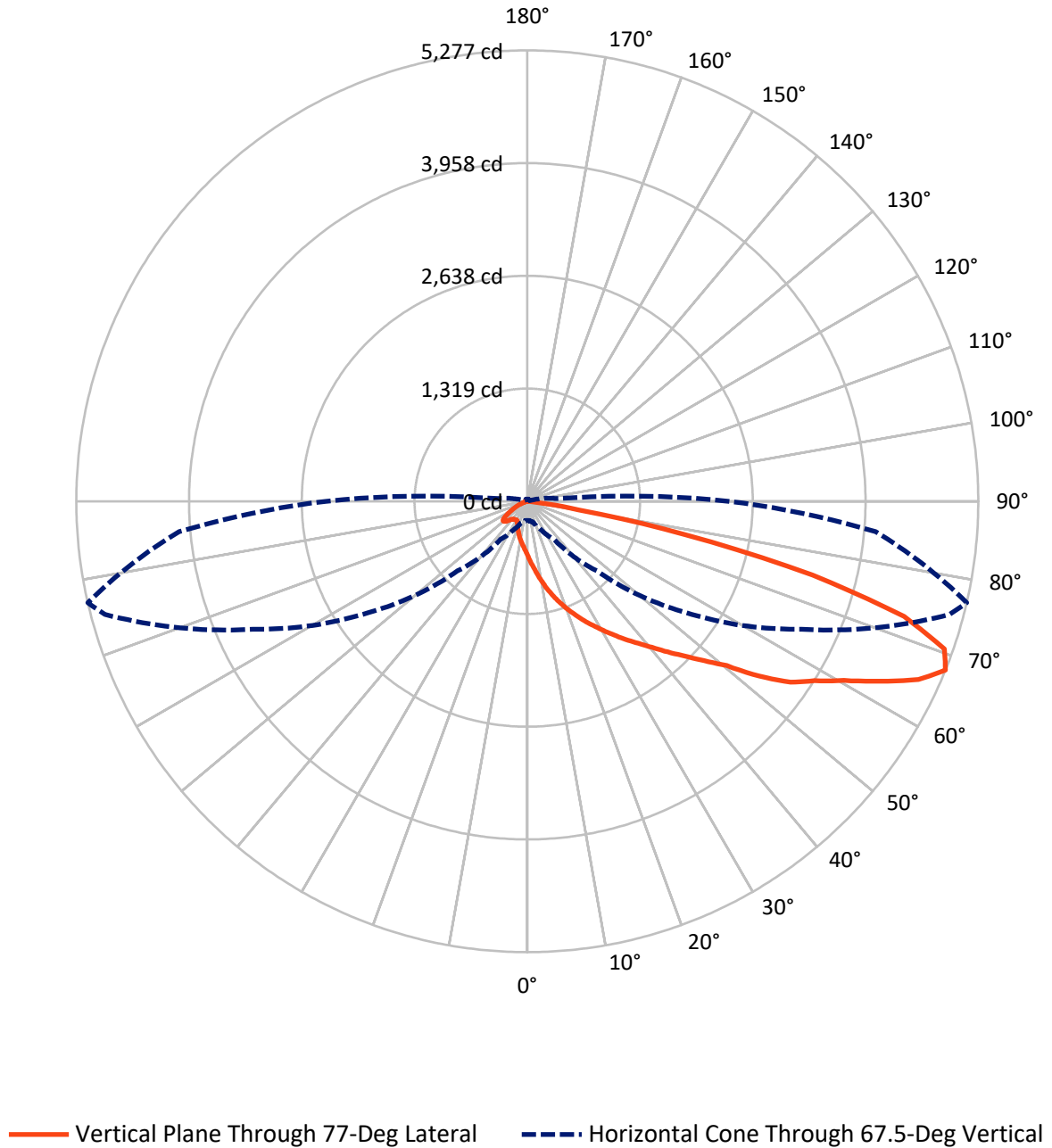
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	404.9	0.0	404.9
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	5099.1	0.0	5099.1
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	5504.0	0.0	5504.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.8	1.2
10°-20°	226.9	4.1
20°-30°	437.8	8.0
30°-40°	760.0	13.8
40°-50°	1103.5	20.0
50°-60°	1267.2	23.0
60°-70°	1100.2	20.0
70°-80°	518.2	9.4
80°-90°	25.6	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°	5504.0	100.0
0°-180°	5504.0	100.0

**Coefficient of Utilization**



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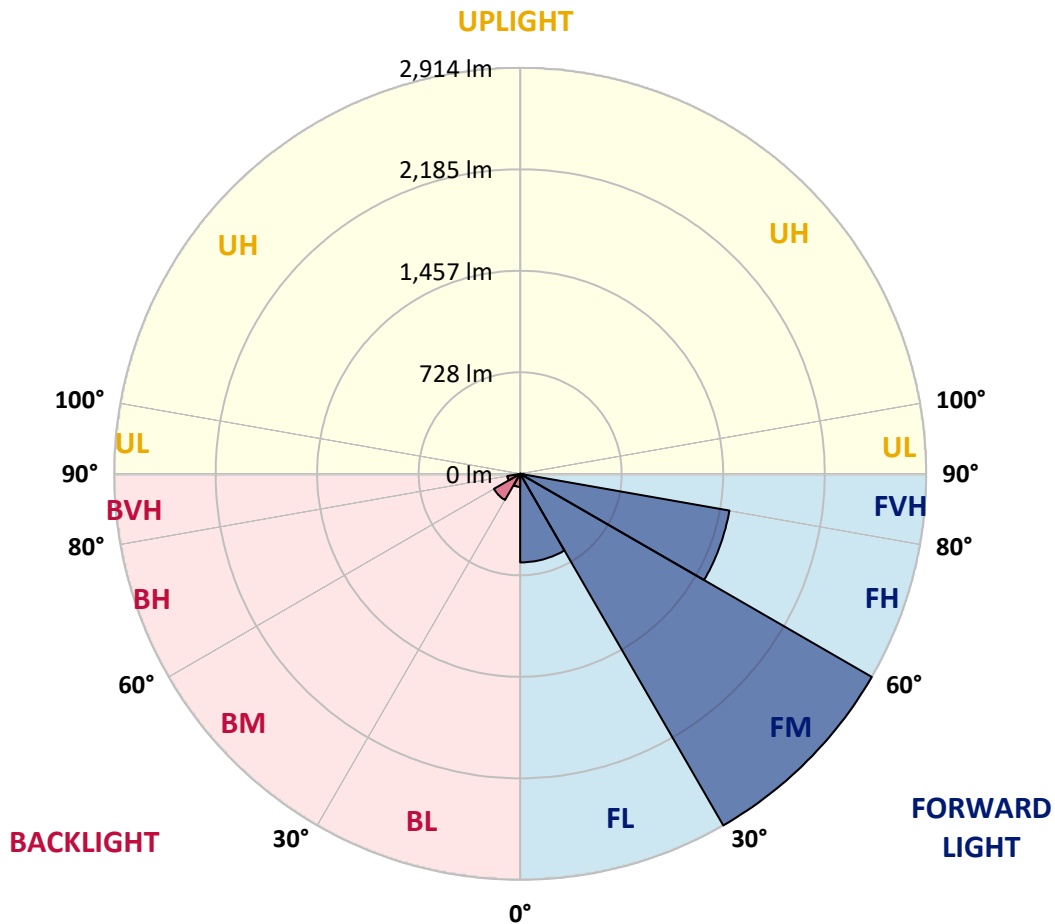
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	635.7	11.5			
FM (30°-60°)	2913.7	52.9			
FH (60°-80°)	1524.6	27.7			G1/1800
FVH (80°-90°)	25.2	0.5			G1/100
BL (0°-30°)	93.7	1.7	B0/110		
BM (30°-60°)	217.0	3.9	B0/220		
BH (60°-80°)	93.7	1.7	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7
2.5°	878.7	884.2	876.3	861.3	838.7	824.0	788.2	754.3	716.7	704.8
5°	1071.1	1075.9	1067.0	1050.6	1020.6	991.9	944.7	873.9	800.5	776.9
7.5°	1213.7	1216.4	1213.0	1198.0	1169.2	1136.8	1084.1	1000.4	891.4	865.4
10°	1316.2	1325.1	1324.1	1318.3	1299.1	1272.8	1216.7	1121.4	993.2	959.7
12.5°	1384.2	1394.1	1399.9	1412.9	1411.9	1395.2	1345.9	1245.1	1094.7	1055.4
15°	1404.0	1414.6	1436.9	1466.9	1493.6	1502.1	1467.6	1366.5	1206.5	1156.3
17.5°	1392.8	1409.2	1435.8	1483.3	1541.8	1580.4	1576.6	1483.7	1308.0	1250.6
20°	1417.7	1433.4	1454.3	1494.3	1562.3	1632.4	1660.4	1595.8	1408.8	1348.7
22.5°	1555.8	1553.1	1555.1	1561.6	1602.3	1671.7	1729.4	1697.6	1508.6	1447.1
25°	1774.5	1762.2	1741.4	1706.2	1695.9	1729.4	1789.6	1787.9	1613.9	1547.9
27.5°	2025.4	2023.4	1974.5	1889.7	1841.9	1828.9	1857.6	1875.7	1718.1	1647.7
30°	2265.7	2271.2	2205.2	2110.9	2023.0	1972.1	1946.1	1959.1	1824.1	1755.4
32.5°	2474.9	2480.7	2408.9	2298.5	2189.8	2128.3	2073.6	2041.5	1939.6	1864.8
35°	2651.6	2657.4	2575.0	2453.0	2337.1	2281.4	2219.5	2131.7	2055.8	1986.1
37.5°	2809.5	2807.8	2697.4	2574.3	2460.5	2416.4	2383.9	2242.8	2175.5	2108.1
40°	2902.8	2909.9	2815.6	2679.9	2569.5	2537.4	2535.4	2380.5	2313.5	2248.3
42.5°	2930.1	2942.8	2874.4	2763.0	2662.8	2628.0	2681.6	2529.5	2474.2	2410.6
45°	2880.9	2893.2	2862.1	2784.9	2726.4	2703.8	2807.4	2684.0	2645.7	2582.9
47.5°	2737.3	2752.7	2760.2	2743.8	2743.2	2766.1	2920.2	2846.7	2849.4	2785.2
50°	2459.5	2485.5	2554.5	2612.6	2702.5	2815.3	3029.9	3023.1	3079.1	3023.8
52.5°	1954.3	1991.2	2229.1	2388.0	2590.0	2806.0	3150.6	3306.1	3482.1	3401.1
55°	1570.5	1570.5	1763.9	2061.3	2370.6	2745.2	3203.2	3490.0	3756.5	3737.4
57.5°	1280.3	1295.7	1419.1	1681.9	2053.1	2600.3	3235.7	3605.5	3977.7	3963.7
60°	790.2	823.4	1056.5	1315.9	1691.8	2342.2	3215.2	3722.4	4246.0	4257.3
62.5°	445.0	457.3	561.2	946.7	1315.5	1995.3	3058.3	3787.6	4589.1	4637.0
65°	307.3	313.4	353.4	589.2	911.9	1588.6	2751.7	3747.0	4933.0	5029.7
67.5°	223.2	226.3	251.2	359.9	541.0	1151.8	2271.2	3541.9	5115.1	5276.8
70°	171.6	173.6	191.7	236.5	319.6	710.9	1649.4	3134.2	4983.2	5176.3
72.5°	139.4	141.5	155.5	175.0	211.9	420.4	999.7	2545.3	4400.8	4609.3
75°	117.6	120.3	133.0	145.6	166.1	270.0	468.9	1772.5	3309.5	3446.2
77.5°	65.3	60.2	108.0	120.6	140.1	170.9	219.4	1043.1	1853.5	1891.4
80°	40.7	42.0	85.8	97.1	107.7	86.1	100.5	401.6	642.6	610.4
82.5°	2.4	5.5	66.0	70.1	73.8	36.9	37.9	136.4	154.8	142.2
85°	0.0	0.0	30.1	24.3	25.6	10.6	10.9	31.8	20.8	22.6
87.5°	0.0	0.0	0.0	0.7	0.0	1.0	2.1	2.7	1.0	1.4
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°
634.7	0°	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7
667.2	2.5°	643.2	619.3	570.8	523.3	484.6	448.8	423.1	398.9	386.6	385.9
710.2	5°	662.7	612.5	515.4	429.6	360.6	305.2	269.3	243.7	230.7	226.3
763.2	7.5°	690.1	614.5	466.9	347.6	266.2	218.7	198.2	190.0	187.3	184.2
823.0	10°	724.6	619.3	423.5	279.9	209.9	185.9	177.7	174.3	172.3	170.2
890.3	12.5°	763.2	623.8	380.4	232.4	184.6	172.3	166.4	162.3	159.6	157.2
959.4	15°	800.8	626.5	335.6	199.3	171.6	161.7	155.5	151.1	147.3	144.6
1027.1	17.5°	838.1	630.2	293.6	179.4	161.0	151.1	144.9	139.4	136.4	133.3
1098.2	20°	879.4	629.6	253.9	165.4	150.4	140.5	134.0	128.9	125.8	122.4
1173.3	22.5°	917.7	626.1	219.1	153.5	139.4	129.9	122.7	117.6	114.5	111.8
1250.2	25°	961.8	623.4	190.0	142.5	129.2	119.6	111.8	107.0	103.6	101.2
1327.5	27.5°	1004.2	619.3	168.8	132.6	119.3	110.1	102.5	97.1	94.0	92.3
1407.1	30°	1045.9	618.3	161.0	123.0	110.4	101.2	93.6	88.5	86.1	85.4
1494.6	32.5°	1096.1	621.0	164.4	119.6	102.2	93.0	85.8	82.0	79.6	79.6
1592.0	35°	1149.8	620.3	169.5	122.7	96.7	84.8	79.3	76.9	74.5	74.5
1700.0	37.5°	1217.1	621.4	173.6	127.8	94.7	77.9	74.9	71.8	70.4	70.4
1818.3	40°	1317.6	655.2	171.6	132.3	94.0	73.1	67.0	66.0	64.9	64.9
1951.9	42.5°	1440.6	728.7	174.3	132.6	93.6	69.7	61.5	63.6	61.2	60.8
2102.7	45°	1575.3	809.0	191.7	125.4	93.3	68.0	58.8	61.2	57.4	57.4
2277.3	47.5°	1708.9	888.6	209.5	115.2	92.3	67.7	56.4	55.0	54.0	54.3
2504.9	50°	1893.1	953.6	216.3	101.2	89.9	67.0	52.0	52.3	51.6	52.3
2825.9	52.5°	2093.8	967.2	208.1	85.4	83.1	64.9	48.9	50.2	49.9	50.6
3051.8	55°	2218.9	952.6	171.9	71.1	72.5	56.7	45.8	48.5	48.5	48.5
3272.6	57.5°	2348.1	890.0	122.0	57.8	60.2	46.5	43.1	46.8	46.5	46.1
3538.5	60°	2441.0	788.8	80.3	47.5	47.8	38.3	40.0	44.1	43.7	42.0
3812.6	62.5°	2510.4	677.1	51.6	40.3	36.6	34.5	36.6	40.0	38.6	34.9
4045.0	65°	2502.5	522.2	39.6	34.5	30.1	30.1	31.8	34.9	30.8	24.6
4089.4	67.5°	2356.6	353.4	32.8	29.1	25.3	25.0	26.3	29.1	26.3	20.8
3861.8	70°	2095.8	231.0	26.3	22.6	20.2	18.5	21.2	25.0	22.2	16.7
3287.6	72.5°	1701.1	140.8	19.8	16.4	14.7	12.0	16.7	20.5	17.8	12.3
2286.2	75°	1100.5	71.8	13.7	10.6	7.9	7.2	12.3	15.4	12.3	7.5
1014.4	77.5°	421.1	30.1	7.5	4.8	4.1	3.4	6.8	9.2	5.1	1.7
196.5	80°	81.0	12.6	3.8	2.4	2.1	1.4	1.0	0.7	0.0	0.0
34.9	82.5°	14.0	4.1	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
6.8	85°	4.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.4	87.5°	1.7	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>
634.7
385.2
225.6
183.5
169.5
156.5
144.2
133.0
122.0
111.4
100.8
92.3
85.1
79.6
74.5
70.4
64.9
60.5
57.4
54.3
52.3
50.6
48.5
46.1
42.0
34.2
23.9
20.2
16.1
11.6
6.5
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0.0
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