

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: P947596

Luminaire Tested: **GALN-SB2D-927-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947596  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2D-927-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

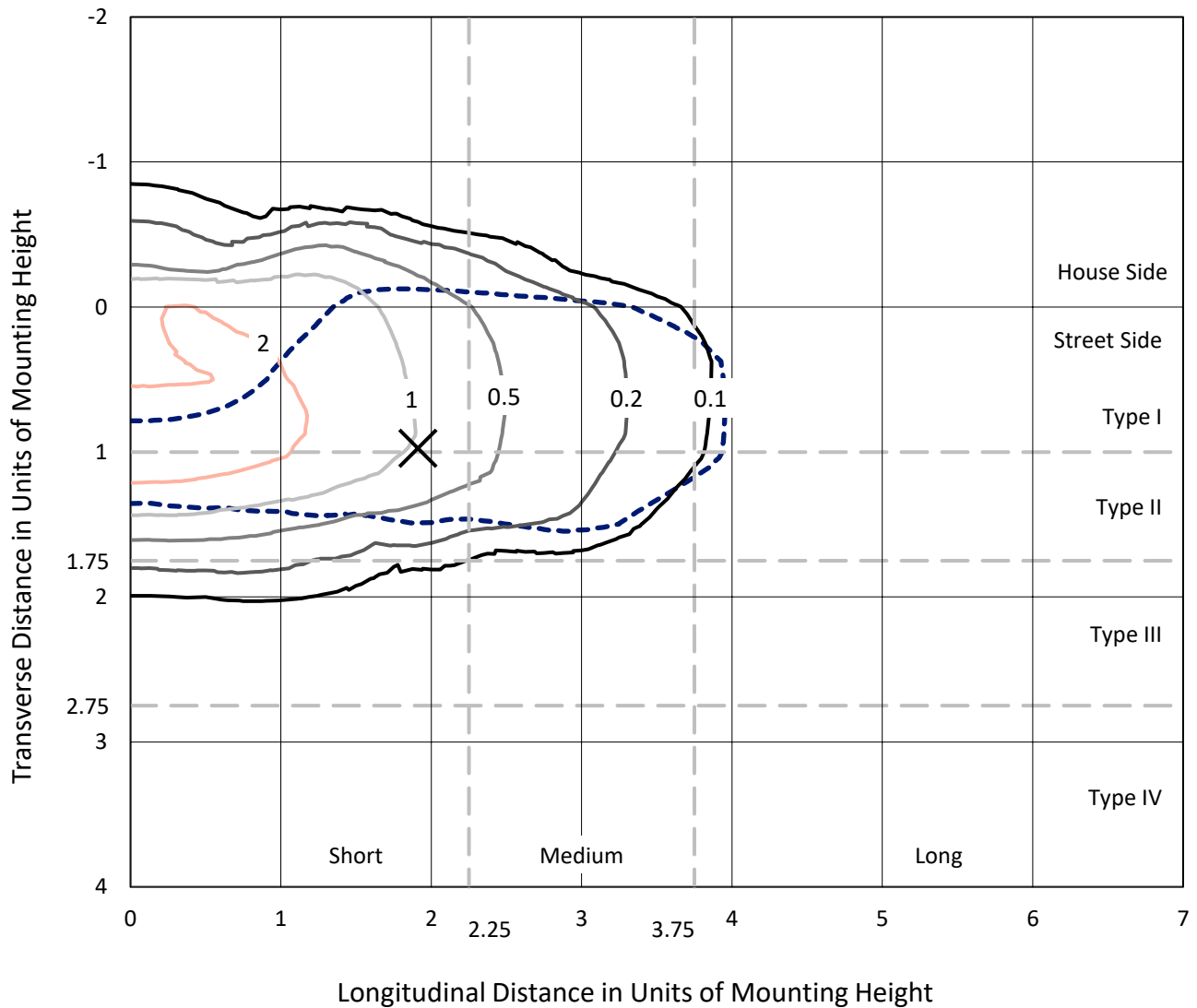
Lumens per Lamp: N/A  
Luminaire Lumens: 9467 lumens  
Efficiency: N/A  
Efficacy: 64.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

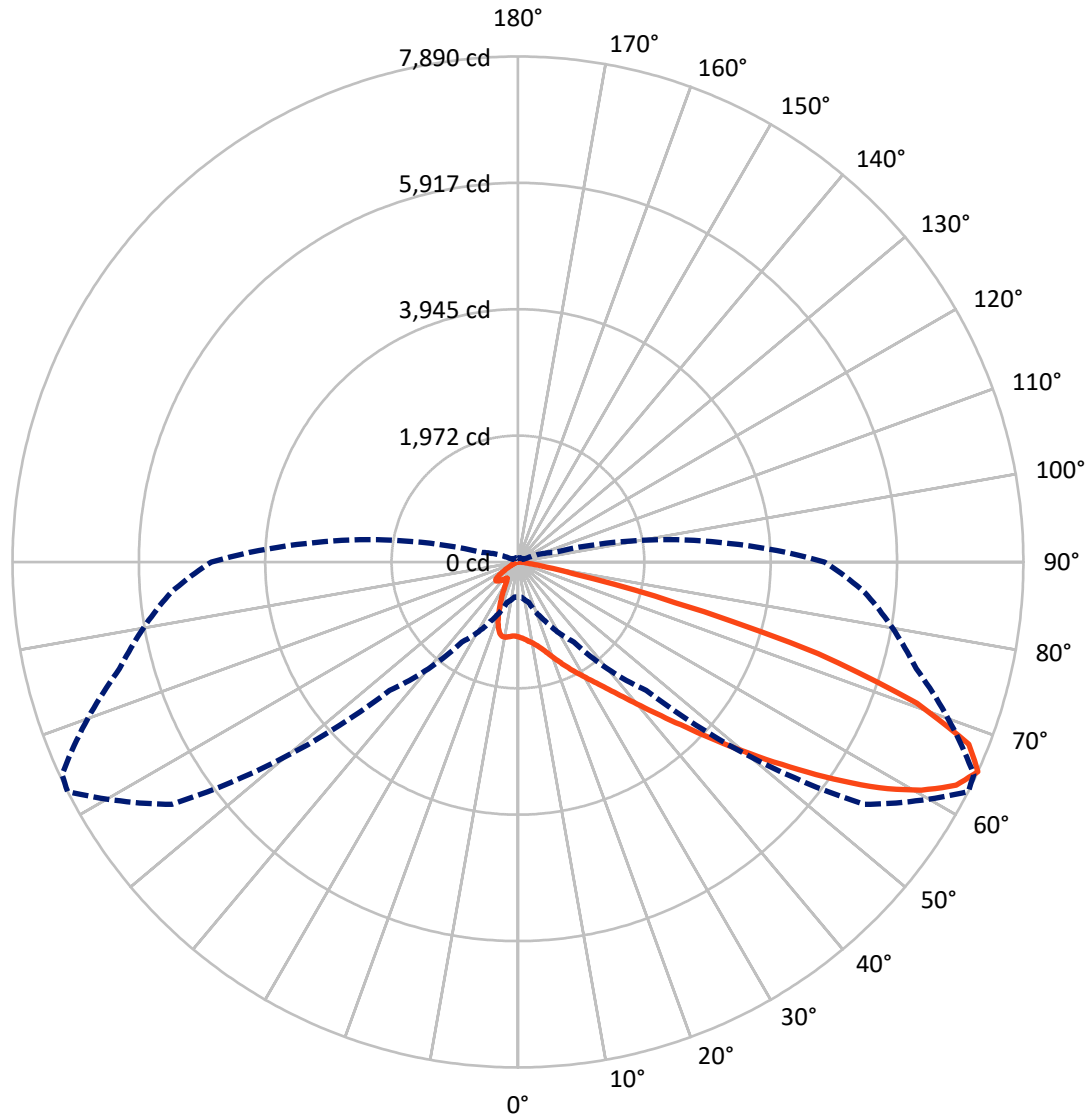
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1391.6	0.0	1391.6
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	8075.4	0.0	8075.4
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	9467.0	0.0	9467.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.1	1.2
10°-20°	305.4	3.2
20°-30°	531.9	5.6
30°-40°	958.6	10.1
40°-50°	1901.3	20.1
50°-60°	2589.8	27.4
60°-70°	2067.2	21.8
70°-80°	935.4	9.9
80°-90°	67.2	0.7
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°	9467.0	100.0
0°-180°	9467.0	100.0

**Coefficient of Utilization**



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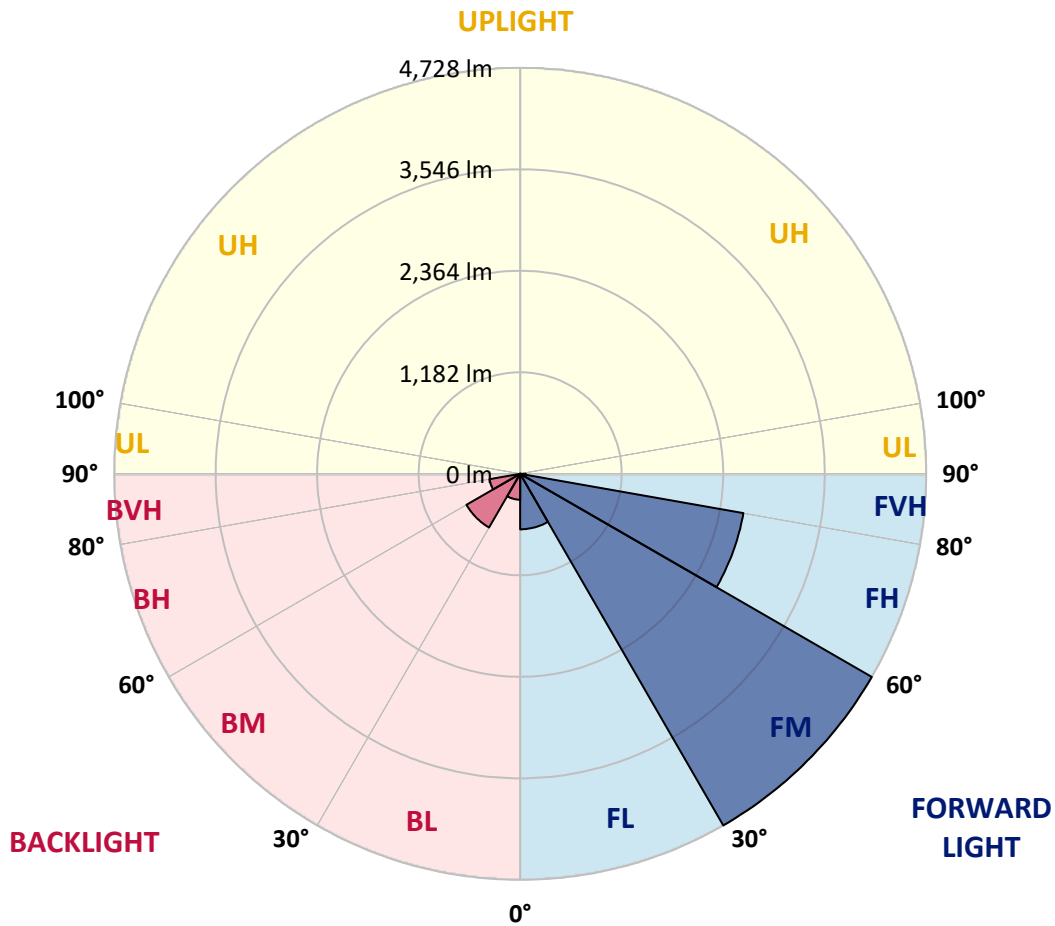
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	646.2	6.8			
FM (30°-60°)	4727.6	49.9			
FH (60°-80°)	2639.4	27.9			G2/5000
FVH (80°-90°)	62.2	0.7			G1/100
BL (0°-30°)	301.2	3.2	B1/500		
BM (30°-60°)	722.1	7.6	B1/1000		
BH (60°-80°)	363.3	3.8	B1/500		G1/500
BVH (80°-90°)	5.0	0.1			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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1168.4	1168.4	1168.4	1168.4	1168.4	1168.4	1168.4	1168.4	1168.4	1168.4
2.5°	1195.8	1192.5	1197.1	1195.1	1193.8	1191.2	1189.9	1188.6	1186.0	1184.0
5°	1199.0	1197.1	1201.6	1205.5	1209.4	1213.3	1215.3	1217.9	1215.3	1210.1
7.5°	1171.7	1170.4	1180.1	1191.9	1209.4	1224.4	1240.7	1249.8	1250.5	1248.5
10°	1169.7	1166.5	1176.2	1190.6	1213.3	1240.0	1268.7	1288.2	1290.8	1299.3
12.5°	1200.3	1197.1	1210.7	1226.4	1249.8	1277.8	1313.0	1340.3	1344.3	1356.0
15°	1251.8	1247.2	1262.8	1283.0	1313.0	1344.9	1382.0	1406.8	1410.0	1424.4
17.5°	1311.7	1307.1	1325.4	1346.9	1379.4	1423.1	1466.0	1493.4	1497.3	1506.4
20°	1388.5	1382.7	1397.0	1416.5	1451.1	1503.2	1554.6	1593.7	1593.0	1593.0
22.5°	1477.8	1468.6	1481.0	1496.7	1529.2	1592.4	1660.8	1707.0	1707.0	1688.8
25°	1573.5	1564.4	1578.1	1592.4	1621.1	1692.7	1772.8	1830.1	1832.7	1801.5
27.5°	1693.3	1681.6	1692.0	1709.0	1725.9	1798.9	1893.9	1960.4	1961.7	1913.5
30°	1923.9	1890.7	1858.1	1839.9	1847.7	1920.0	2021.6	2095.2	2101.7	2035.3
32.5°	2345.9	2339.4	2224.8	2075.0	1996.8	2050.2	2164.2	2252.8	2256.7	2171.4
35°	3001.8	2994.0	2809.6	2524.4	2269.7	2224.8	2337.5	2442.3	2439.7	2343.3
37.5°	3784.6	3777.5	3534.5	3152.9	2740.6	2488.6	2560.9	2670.9	2687.2	2560.9
40°	4453.5	4426.8	4273.1	3905.1	3365.8	2926.2	2878.7	2951.6	2968.6	2818.8
42.5°	4960.2	4937.4	4859.2	4629.3	4122.6	3573.6	3253.2	3281.2	3300.1	3120.3
45°	5222.7	5217.5	5248.7	5227.2	4893.8	4368.2	3788.5	3671.9	3679.1	3454.4
47.5°	5259.8	5257.2	5399.8	5601.7	5556.8	5264.3	4475.6	4159.1	4133.7	3831.5
50°	5041.0	5035.7	5309.3	5687.7	5999.6	6017.2	5255.9	4708.1	4652.1	4221.6
52.5°	4342.1	4340.8	4790.2	5420.0	6155.3	6676.3	6027.0	5311.2	5217.5	4634.5
55°	3341.1	3365.2	3880.4	4624.8	5871.3	6993.5	6719.3	5980.8	5836.8	5050.1
57.5°	2366.8	2401.9	2911.2	3574.3	4990.8	6805.9	7187.6	6651.6	6496.6	5464.3
60°	1271.3	1302.6	1812.5	2603.8	3713.0	6106.5	7434.4	7233.8	7087.3	5857.7
62.5°	757.4	767.9	978.9	1681.0	2511.4	4665.2	7329.6	7677.4	7556.9	6187.9
65°	543.8	545.8	651.9	1026.4	1524.7	2834.4	6594.3	7889.7	7852.6	6436.7
67.5°	457.9	456.6	500.8	681.9	1038.8	1419.8	5054.0	7589.4	7747.0	6594.3
70°	392.7	394.7	446.8	499.5	780.9	803.7	2512.7	6607.9	6944.0	6636.0
72.5°	292.4	298.9	347.1	455.2	589.4	552.9	867.5	4899.6	5507.3	6252.3
75°	206.5	209.7	244.2	383.0	439.6	402.5	442.9	2532.9	3311.8	4793.5
77.5°	158.9	164.8	185.0	267.7	433.1	282.7	270.9	876.6	1346.9	2895.6
80°	86.0	96.4	133.5	193.4	304.2	199.9	134.2	349.1	456.6	1354.0
82.5°	44.3	49.5	93.1	139.4	173.2	174.5	66.4	145.2	188.2	418.1
85°	17.6	21.5	62.5	76.9	89.2	86.0	30.0	58.6	67.7	115.9
87.5°	3.9	6.5	22.8	17.6	16.9	18.2	7.2	13.7	13.0	13.7
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°
1168.4	0°	1168.4	1168.4	1168.4	1168.4	1168.4	1168.4	1168.4	1168.4	1168.4	1168.4
1176.2	2.5°	1175.6	1173.0	1165.8	1158.0	1148.9	1143.7	1140.4	1139.8	1135.2	1131.9
1202.3	5°	1195.1	1192.5	1178.8	1162.5	1145.0	1131.3	1118.3	1106.5	1089.6	1086.3
1240.0	7.5°	1234.2	1227.0	1204.9	1182.7	1149.5	1109.8	1061.6	1006.2	956.7	941.8
1290.2	10°	1282.4	1272.6	1244.6	1205.5	1131.9	1023.8	907.2	799.1	713.2	689.1
1349.5	12.5°	1337.1	1328.6	1291.5	1219.2	1058.3	862.3	683.9	549.7	466.3	445.5
1412.6	15°	1402.2	1389.8	1338.4	1198.4	926.8	655.2	469.6	390.1	360.2	356.3
1484.9	17.5°	1471.3	1451.1	1380.1	1123.5	749.6	465.7	362.8	340.0	326.9	323.0
1557.9	20°	1534.4	1508.4	1404.8	1010.1	560.1	362.8	325.0	310.0	298.3	293.7
1630.8	22.5°	1597.6	1560.5	1404.8	855.8	420.1	321.7	298.3	284.6	270.9	265.1
1709.0	25°	1663.4	1613.9	1380.1	683.9	338.0	295.0	272.9	257.9	246.2	239.0
1783.2	27.5°	1727.2	1658.8	1323.4	521.0	300.9	271.6	249.4	235.1	224.0	218.8
1864.0	30°	1787.8	1703.1	1244.0	395.3	276.8	248.8	228.0	215.6	204.5	199.3
1968.8	32.5°	1869.8	1759.1	1159.3	324.3	256.0	227.3	208.4	196.7	186.9	183.0
2105.0	35°	1983.8	1841.8	1086.3	318.5	238.4	209.7	190.8	179.8	170.0	166.7
2280.8	37.5°	2145.3	1975.3	1047.9	357.6	224.0	194.1	176.5	164.8	155.7	153.1
2504.2	40°	2344.6	2156.4	1068.8	396.6	214.3	180.4	163.5	151.7	143.9	140.7
2760.8	42.5°	2581.0	2379.8	1184.0	426.6	207.8	168.7	151.1	138.1	132.9	131.6
3051.9	45°	2852.6	2625.3	1360.5	458.5	197.3	157.6	138.7	129.0	125.0	124.4
3368.5	47.5°	3161.3	2895.0	1565.0	498.2	186.9	147.2	129.0	122.4	119.2	117.9
3698.7	50°	3467.4	3166.6	1775.4	520.4	178.5	137.4	121.1	115.9	113.3	112.7
4047.7	52.5°	3787.9	3446.0	1945.4	499.5	171.3	129.6	114.6	110.7	108.1	107.5
4369.5	55°	4093.3	3671.9	1974.7	424.0	157.0	121.8	107.5	105.5	102.3	102.3
4695.8	57.5°	4356.5	3785.3	1767.6	311.3	142.6	110.1	100.3	98.3	95.7	95.1
4990.2	60°	4598.1	3752.7	1364.4	209.7	127.0	98.3	91.2	89.9	87.3	84.0
5246.1	62.5°	4734.2	3609.4	933.3	136.8	111.4	86.0	80.8	80.1	74.2	67.7
5435.6	65°	4785.6	3315.0	582.2	99.6	93.1	73.6	69.7	68.4	59.9	52.8
5543.1	67.5°	4740.7	2830.5	293.7	78.8	73.6	61.2	57.3	57.3	51.5	44.9
5536.6	70°	4561.0	2121.9	123.7	63.2	56.7	46.9	46.9	49.5	43.6	36.5
5249.4	72.5°	4170.8	1427.6	65.8	48.2	42.3	33.2	38.4	40.4	34.5	27.4
4296.5	75°	3315.7	870.8	45.6	35.8	26.7	23.4	29.3	30.6	23.4	18.2
2945.8	77.5°	2267.8	500.2	30.6	22.8	16.9	13.7	20.2	18.9	12.4	8.5
1135.8	80°	995.8	208.4	17.6	10.4	6.5	5.2	7.2	5.2	3.9	2.6
155.7	82.5°	116.6	48.8	6.5	3.9	2.6	1.3	0.7	0.0	0.0	0.0
47.5	85°	24.1	5.9	3.3	1.3	0.7	0.0	0.0	0.0	0.0	0.0
8.5	87.5°	4.6	1.3	0.7	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>
1168.4
1135.2
1085.0
934.6
679.9
439.6
352.3
321.1
291.1
261.8
236.4
218.8
199.9
183.0
166.7
152.4
140.0
131.6
123.7
117.9
112.7
107.5
101.6
94.4
83.4
66.4
52.1
44.3
35.8
27.4
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