

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: P955084

Luminaire Tested: **GALN-SB8A-927-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955084  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8A-927-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

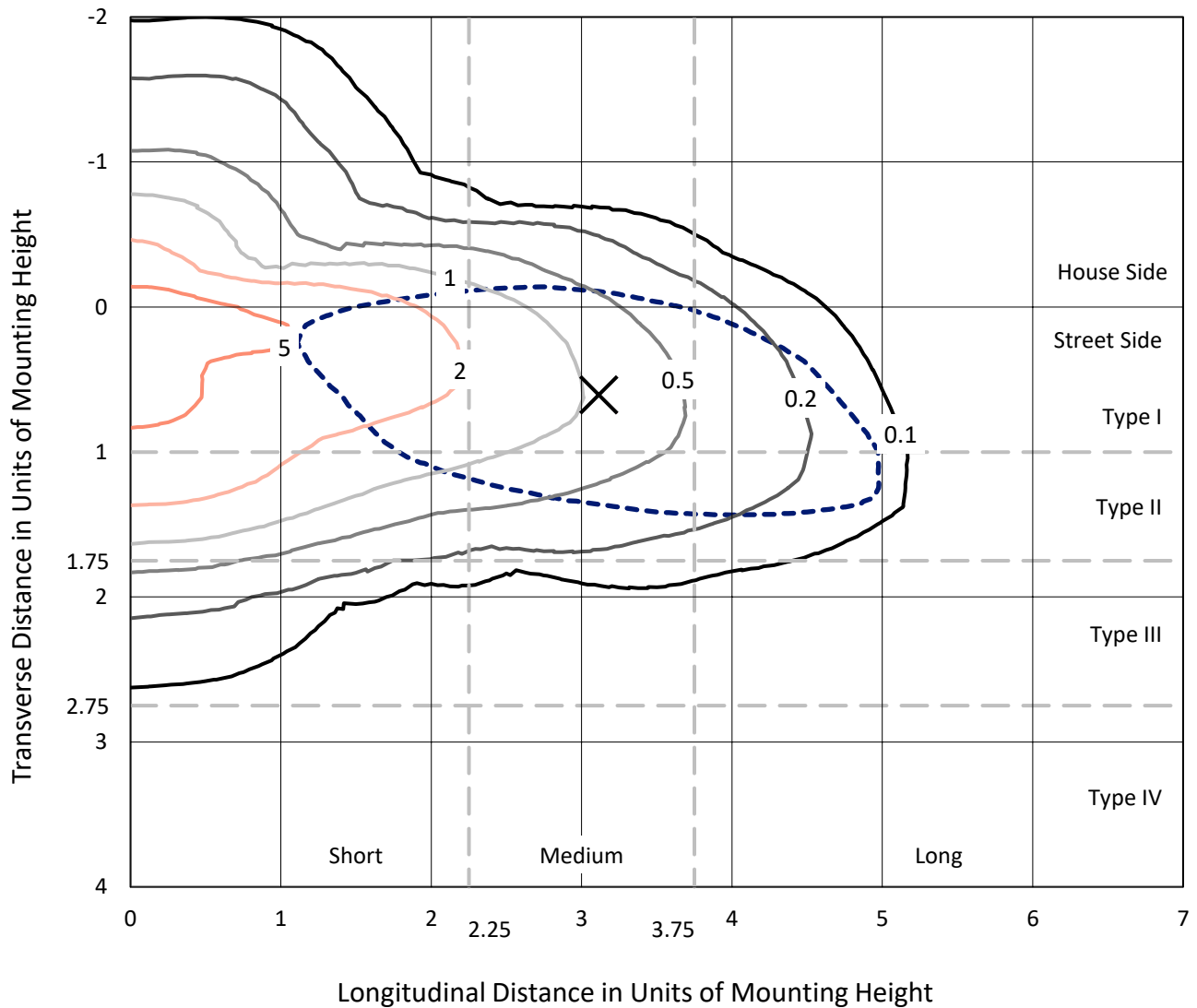
Lumens per Lamp: N/A  
Luminaire Lumens: 21945 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

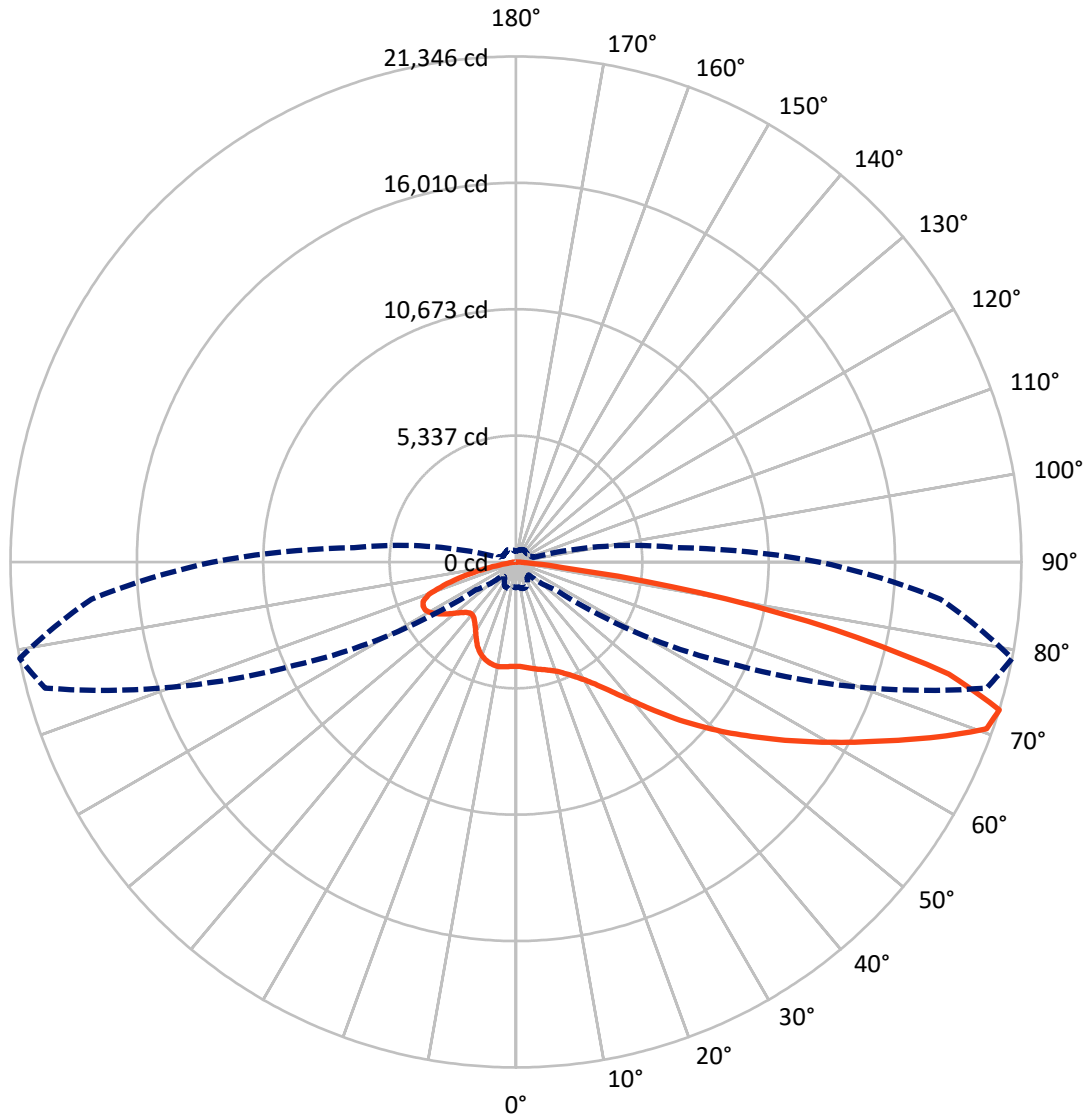
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4829.1	0.0	4829.1
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	17115.9	0.0	17115.9
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	21945.0	0.0	21945.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	399.9	1.8
10°-20°	1045.5	4.8
20°-30°	1686.9	7.7
30°-40°	2531.9	11.5
40°-50°	3591.6	16.4
50°-60°	4535.7	20.7
60°-70°	4606.6	21.0
70°-80°	3139.6	14.3
80°-90°	407.3	1.9
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°	21945.0	100.0
0°-180°	21945.0	100.0

**Coefficient of Utilization**



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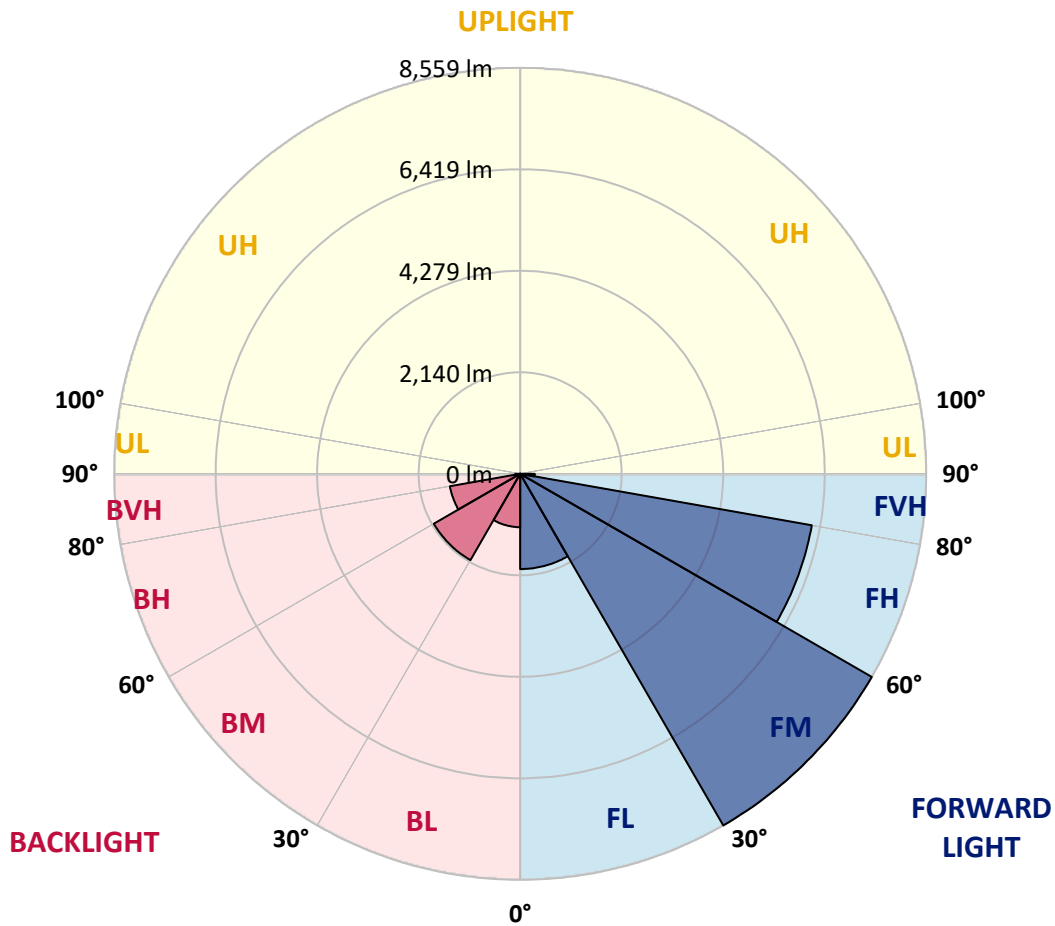
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2007.4	9.1			
FM (30°-60°)	8559.0	39.0			
FH (60°-80°)	6242.6	28.4			G3/7500
FVH (80°-90°)	306.9	1.4			G3/500
BL (0°-30°)	1124.8	5.1	B3/2500		
BM (30°-60°)	2100.2	9.6	B2/2500		
BH (60°-80°)	1503.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	100.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	4405.3	4405.3	4405.3	4405.3	4405.3	4405.3	4405.3	4405.3	4405.3	4405.3
2.5°	4407.6	4386.7	4399.4	4394.8	4400.6	4407.6	4409.9	4413.4	4425.0	4423.8
5°	4398.3	4377.4	4394.8	4389.0	4404.1	4420.3	4434.3	4447.0	4465.6	4473.7
7.5°	4378.6	4364.6	4382.0	4399.4	4427.3	4451.7	4471.4	4500.4	4527.1	4531.8
10°	4263.6	4253.2	4293.8	4339.1	4415.7	4481.9	4524.8	4558.5	4587.5	4592.1
12.5°	4144.1	4131.3	4176.6	4238.1	4362.3	4481.9	4572.4	4616.5	4642.1	4657.1
15°	4124.3	4113.9	4139.4	4192.8	4296.1	4450.5	4604.9	4686.2	4708.2	4725.6
17.5°	4219.5	4199.8	4210.2	4228.8	4289.2	4421.5	4630.4	4765.1	4798.8	4817.3
20°	4440.1	4412.2	4396.0	4358.8	4348.4	4426.1	4628.1	4860.3	4904.4	4927.6
22.5°	4733.8	4715.2	4680.4	4586.3	4484.2	4483.0	4672.2	4982.2	5064.6	5086.6
25°	5089.0	5061.1	5017.0	4889.3	4693.1	4595.6	4746.5	5137.7	5275.9	5281.7
27.5°	5497.6	5455.8	5395.4	5227.1	4962.4	4772.1	4860.3	5316.5	5518.5	5516.1
30°	5928.2	5886.4	5822.6	5618.3	5285.1	5010.0	5018.2	5509.2	5806.3	5793.6
32.5°	6242.8	6211.5	6198.7	6040.8	5656.6	5290.9	5199.2	5722.8	6161.5	6149.9
35°	6484.2	6443.6	6458.7	6378.6	6061.7	5605.5	5421.0	5977.0	6593.4	6592.2
37.5°	6723.4	6687.4	6700.2	6646.8	6436.7	6004.8	5691.4	6288.1	7128.5	7154.0
40°	6941.6	6903.3	6954.4	6904.5	6728.0	6429.7	5999.0	6639.8	7748.4	7797.1
42.5°	7072.8	7042.6	7127.3	7128.5	6981.1	6788.4	6336.8	7027.5	8465.7	8574.9
45°	7118.0	7107.6	7235.3	7262.0	7205.1	6996.2	6641.0	7450.0	9238.8	9433.9
47.5°	7069.3	7049.6	7226.0	7324.7	7369.9	7093.7	6892.9	7907.4	10028.2	10313.7
50°	6823.2	6784.9	7047.2	7255.0	7416.4	7157.5	7147.1	8435.6	10925.5	11237.7
52.5°	6380.9	6351.9	6650.2	7011.3	7314.2	7188.9	7432.6	9012.5	11777.5	12181.5
55°	5815.6	5777.3	6105.8	6577.1	7060.0	7178.4	7718.2	9657.9	12782.8	13192.5
57.5°	4919.5	4842.9	5258.4	5815.6	6645.6	7165.6	8015.3	10299.8	13804.3	14295.3
60°	3612.4	3498.7	4008.3	4668.8	5835.4	7041.4	8383.3	11019.5	15030.1	15472.4
62.5°	2103.4	2037.2	2370.4	2986.7	4398.3	6310.1	8589.9	11856.4	16235.0	16699.3
65°	1633.3	1614.7	1643.7	1691.3	2448.1	4724.5	7952.7	12672.5	17767.3	18092.3
67.5°	1494.0	1480.0	1492.8	1403.4	1242.1	2631.5	6291.6	12879.1	19408.6	19606.0
70°	1328.0	1311.7	1353.5	1276.9	977.4	1196.8	4065.1	12129.2	20714.5	21084.8
72.5°	1081.9	1063.3	1160.8	1126.0	823.0	768.5	2041.9	10347.4	20577.6	21346.0
75°	831.1	820.7	936.8	965.8	670.9	604.8	979.7	7691.5	18108.5	18882.8
77.5°	645.4	637.3	696.5	802.1	540.9	469.0	602.5	4878.9	13646.4	13782.2
80°	484.1	460.8	515.4	621.0	421.4	342.4	408.6	2845.1	8625.9	7819.2
82.5°	303.0	291.4	336.6	414.4	297.2	235.6	265.8	1571.7	3456.9	2036.0
85°	173.0	168.3	183.4	236.8	161.4	135.8	152.1	694.2	631.5	434.1
87.5°	69.6	67.3	83.6	105.6	59.2	49.9	53.4	167.2	139.3	128.8
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°
4405.3	0°	4405.3	4405.3	4405.3	4405.3	4405.3	4405.3	4405.3	4405.3	4405.3	4405.3
4422.7	2.5°	4418.0	4418.0	4401.8	4376.2	4347.2	4328.6	4298.5	4290.3	4259.0	4249.7
4462.1	5°	4471.4	4462.1	4412.2	4340.2	4241.6	4151.0	4051.2	3988.5	3900.3	3869.0
4539.9	7.5°	4538.7	4513.2	4427.3	4269.4	4062.8	3859.7	3648.4	3488.2	3335.0	3280.4
4603.7	10°	4600.3	4564.3	4418.0	4141.7	3784.2	3432.5	3095.9	2860.2	2681.5	2608.3
4674.6	12.5°	4661.8	4595.6	4356.5	3929.3	3388.4	2911.3	2552.6	2369.2	2258.9	2170.7
4732.6	15°	4719.8	4627.0	4261.3	3644.9	2954.2	2470.2	2205.5	2059.3	1971.0	1913.0
4817.3	17.5°	4787.2	4653.7	4118.5	3283.9	2541.0	2164.9	1949.0	1860.8	1843.4	1836.4
4933.4	20°	4881.2	4678.0	3930.5	2880.0	2236.9	1921.1	1809.7	1801.6	1800.4	1796.9
5072.7	22.5°	4982.2	4707.1	3682.1	2513.1	1978.0	1769.1	1749.3	1733.1	1722.6	1721.5
5241.0	25°	5101.7	4716.3	3371.0	2212.5	1757.5	1697.1	1673.9	1649.5	1642.5	1642.5
5432.6	27.5°	5217.8	4685.0	3008.8	1951.3	1633.3	1630.9	1600.7	1592.6	1591.5	1594.9
5650.8	30°	5333.9	4625.8	2649.0	1709.9	1561.3	1561.3	1550.8	1556.6	1561.3	1572.9
5950.3	32.5°	5490.6	4563.1	2348.3	1531.1	1498.6	1487.0	1497.4	1509.0	1513.7	1528.8
6343.8	35°	5720.4	4519.0	2109.2	1433.6	1433.6	1418.5	1424.3	1422.0	1411.5	1404.6
6819.7	37.5°	6024.6	4516.7	1911.8	1388.3	1379.0	1376.7	1377.9	1362.8	1322.2	1273.4
7395.5	40°	6390.2	4579.4	1759.8	1357.0	1350.0	1363.9	1357.0	1316.4	1204.9	1120.2
8103.6	42.5°	6881.2	4758.1	1662.3	1318.7	1339.6	1357.0	1329.1	1188.7	1113.2	1056.3
8910.3	45°	7459.3	5048.3	1612.4	1278.0	1319.8	1340.7	1206.1	1144.6	1084.2	1015.7
9790.2	47.5°	8114.0	5414.0	1600.7	1239.7	1275.7	1288.5	1153.8	1126.0	1057.5	983.2
10674.8	50°	8826.8	5847.0	1632.1	1194.5	1211.9	1167.8	1136.4	1110.9	1040.1	966.9
11581.3	52.5°	9563.9	6324.1	1694.8	1132.9	1148.0	1099.3	1129.5	1107.4	1029.6	931.0
12518.1	55°	10288.2	6804.6	1755.1	1061.0	1083.0	1037.8	1109.7	1093.5	982.0	870.6
13517.6	57.5°	11024.2	7282.9	1814.3	997.1	1020.3	978.6	1078.4	1056.3	928.6	814.9
14608.7	60°	11789.1	7747.2	1842.2	935.6	951.9	924.0	1030.8	992.5	868.3	758.0
15681.3	62.5°	12505.3	8133.8	1796.9	874.1	884.5	872.9	968.1	917.0	807.9	694.2
16799.2	65°	13223.9	8363.6	1657.6	813.7	816.0	810.2	879.9	835.8	737.1	638.4
17777.7	67.5°	13875.1	8492.4	1435.9	748.7	742.9	740.6	797.5	747.6	668.6	582.7
18521.8	70°	14013.2	8165.1	1097.0	672.1	672.1	666.3	706.9	655.9	593.2	523.5
17989.0	72.5°	12799.0	6868.5	778.9	585.0	594.3	582.7	616.4	573.4	516.6	470.1
15503.7	75°	10320.7	5036.7	566.5	495.7	511.9	492.2	523.5	493.3	444.6	443.4
10684.0	77.5°	7091.3	3114.4	410.9	408.6	420.2	394.7	430.7	414.4	370.3	350.6
4650.2	80°	3026.2	1242.1	299.5	315.7	315.7	292.5	334.3	339.0	300.6	291.4
897.3	82.5°	602.5	352.9	210.1	217.1	204.3	197.3	236.8	262.3	362.2	402.8
270.5	85°	181.1	130.0	126.5	118.4	104.5	105.6	139.3	263.5	325.0	185.7
89.4	87.5°	49.9	32.5	33.7	26.7	22.1	29.0	47.6	199.7	109.1	46.4
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>
4405.3
4264.8
3892.2
3287.4
2624.6
2199.7
1923.5
1841.0
1808.5
1734.2
1649.5
1604.2
1581.0
1541.5
1420.8
1274.6
1117.9
1054.0
1011.1
977.4
958.8
924.0
864.8
812.6
754.5
693.0
631.5
575.8
521.2
456.2
399.3
328.5
291.4
404.0
160.2
39.5
0.0

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