

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: P942865

Luminaire Tested: **GALN-SB7A-827-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942865  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB7A-827-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27486 lumens  
Efficiency: N/A  
Efficacy: 138.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

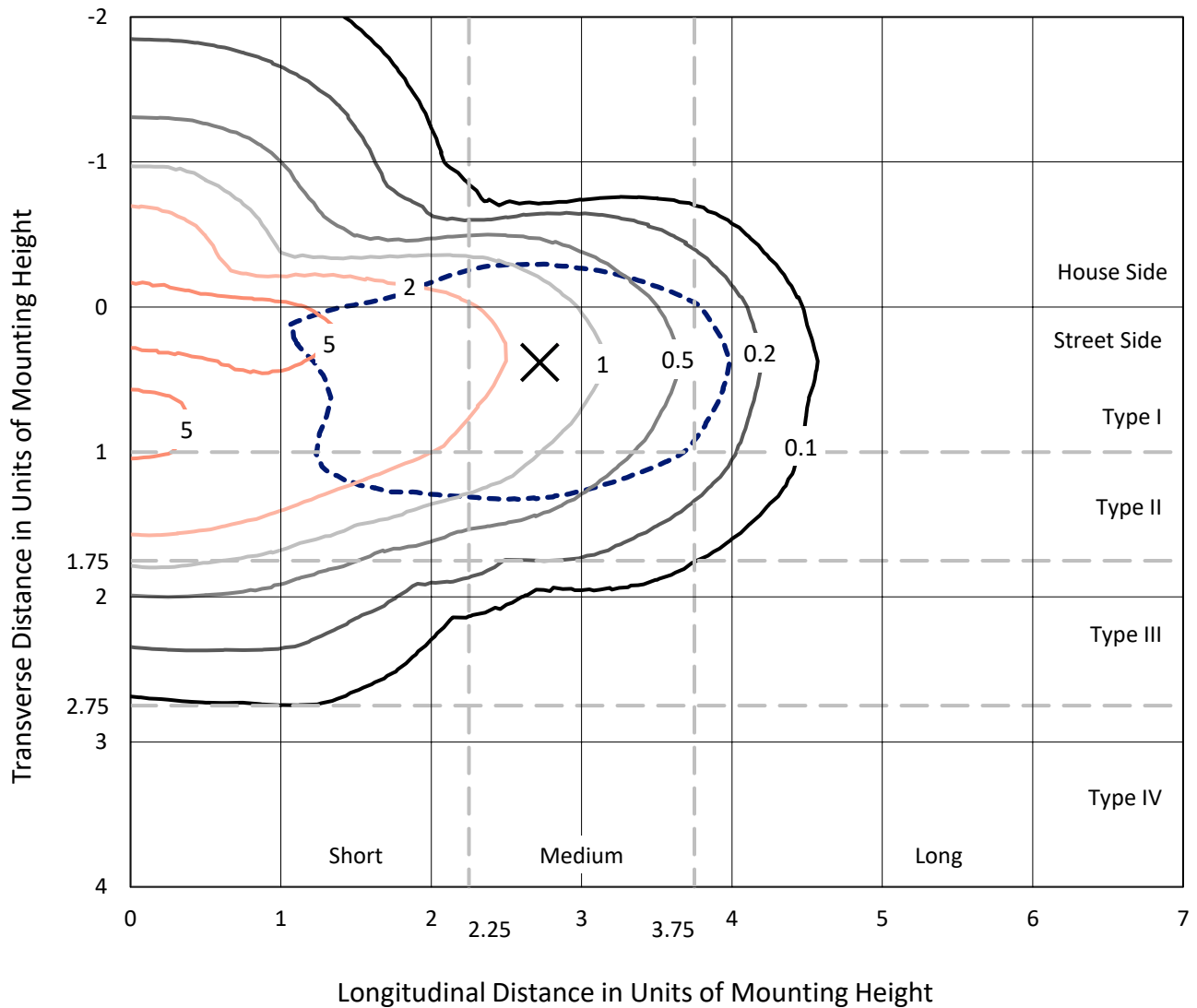
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

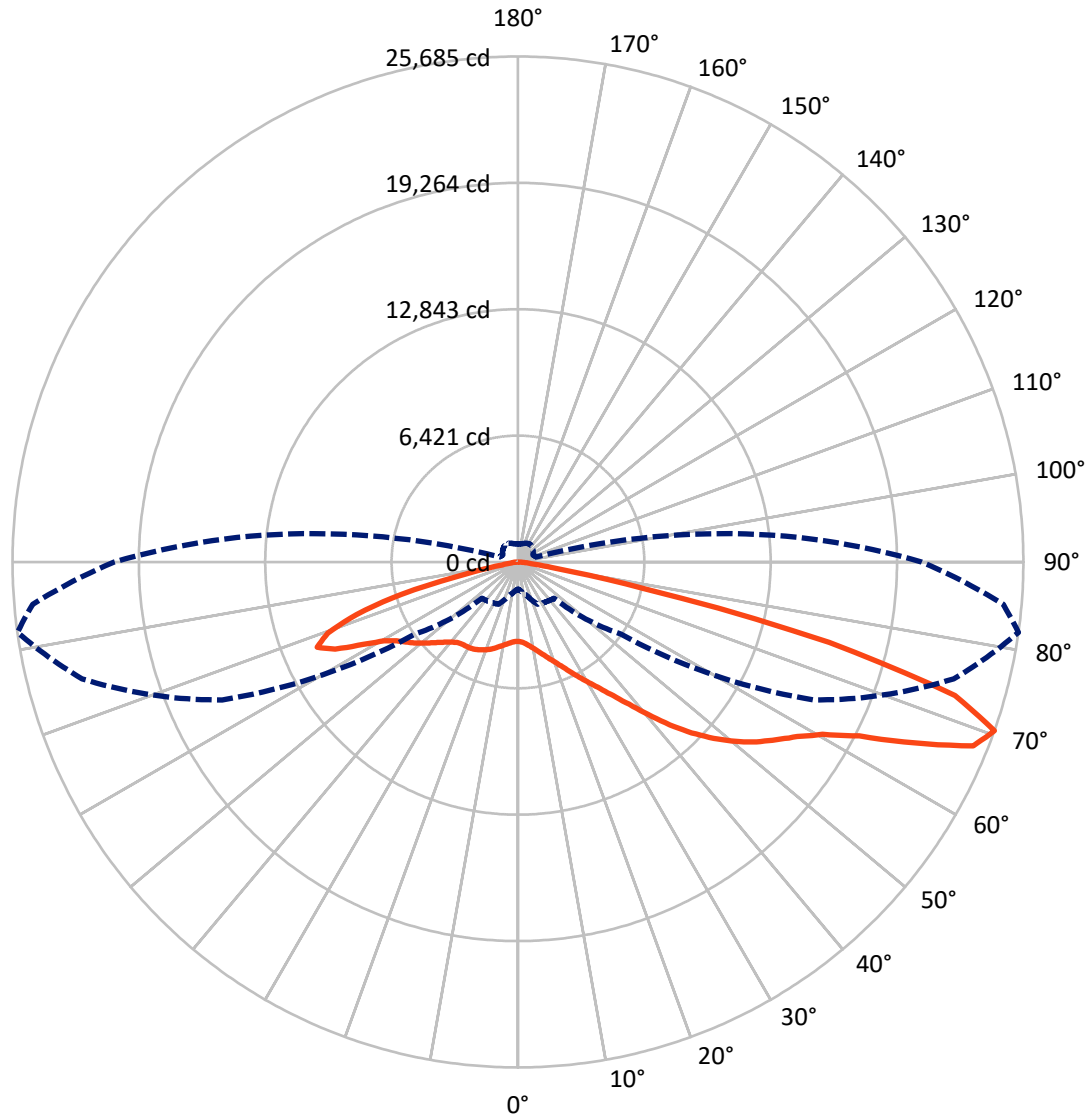
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6776.0	0.0	6776.0
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	20710.0	0.0	20710.0
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	27486.0	0.0	27486.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	380.5	1.4
10°-20°	1093.1	4.0
20°-30°	1828.7	6.7
30°-40°	2857.0	10.4
40°-50°	4550.0	16.6
50°-60°	6331.9	23.0
60°-70°	6623.5	24.1
70°-80°	3461.8	12.6
80°-90°	359.5	1.3
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°	27486.0	100.0
0°-180°	27486.0	100.0

**Coefficient of Utilization**



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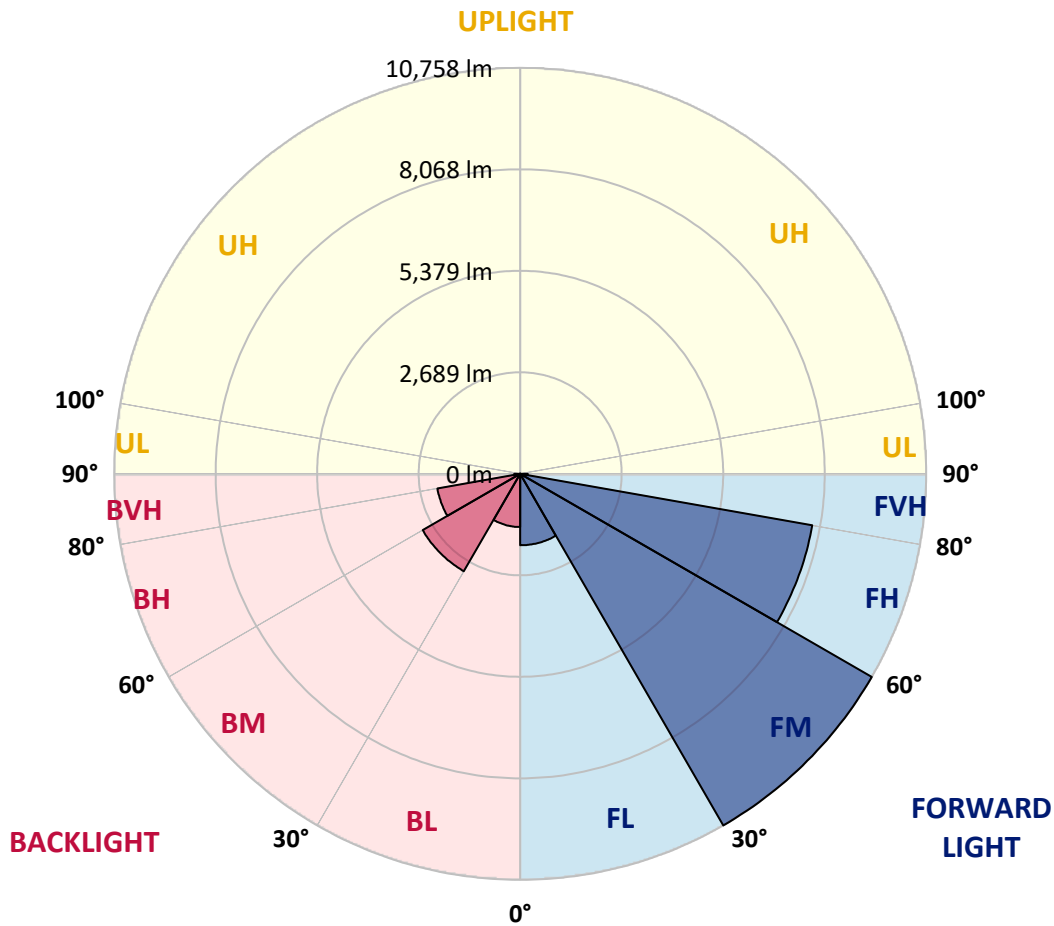
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1892.7	6.9			
FM (30°-60°)	10757.7	39.1			
FH (60°-80°)	7858.3	28.6			G4/12000
FVH (80°-90°)	201.2	0.7			G2/225
BL (0°-30°)	1409.7	5.1	B3/2500		
BM (30°-60°)	2981.2	10.8	B3/5000		
BH (60°-80°)	2226.9	8.1	B3/2500		G3/2500
BVH (80°-90°)	158.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8
2.5°	4126.1	4149.4	4142.1	4134.8	4134.8	4124.6	4123.1	4108.5	4096.9	4077.9
5°	4178.6	4203.4	4200.4	4206.3	4225.2	4229.6	4234.0	4225.2	4201.9	4178.6
7.5°	4131.9	4159.6	4168.3	4203.4	4261.7	4314.2	4353.6	4369.6	4347.7	4314.2
10°	3974.4	4005.0	4035.6	4118.8	4222.3	4346.3	4451.3	4514.0	4509.6	4477.5
12.5°	3655.0	3687.0	3752.7	3914.6	4104.2	4322.9	4518.4	4649.6	4694.9	4671.5
15°	3399.7	3427.4	3477.0	3643.3	3889.8	4222.3	4543.2	4798.4	4913.6	4900.5
17.5°	3392.4	3404.1	3434.7	3513.5	3703.1	4064.8	4516.9	4944.3	5164.5	5163.0
20°	3520.8	3525.2	3542.7	3558.7	3666.6	3945.2	4449.8	5065.3	5446.0	5446.0
22.5°	3698.7	3695.8	3713.3	3698.7	3751.2	3935.0	4407.5	5171.8	5759.6	5782.9
25°	3965.6	3951.0	3946.7	3913.1	3923.3	4029.8	4454.2	5292.8	6131.5	6179.6
27.5°	4321.5	4298.2	4282.1	4204.8	4178.6	4225.2	4597.1	5438.7	6545.7	6628.8
30°	4785.3	4743.0	4719.7	4585.5	4490.7	4498.0	4813.0	5632.7	6978.8	7113.0
32.5°	5418.3	5352.6	5289.9	5069.7	4896.1	4839.2	5091.6	5901.0	7448.5	7662.9
35°	6127.1	6074.6	6007.5	5667.7	5400.8	5269.5	5467.9	6275.9	7998.3	8338.2
37.5°	6809.7	6764.4	6796.5	6338.6	5994.4	5803.3	5960.8	6779.0	8676.5	9178.2
40°	7515.6	7480.6	7484.9	7047.4	6646.3	6431.9	6558.8	7410.6	9453.9	10177.3
42.5°	8282.7	8256.5	8169.0	7781.0	7330.3	7130.5	7247.2	8139.8	10288.1	11314.9
45°	9141.8	9125.7	9044.1	8599.2	8082.9	7858.3	8015.8	8944.9	11126.8	12385.4
47.5°	9884.1	9897.3	9887.1	9512.2	8977.0	8647.4	8835.5	9785.0	11907.1	13391.8
50°	10241.5	10310.0	10410.7	10294.0	9961.4	9626.0	9662.5	10595.9	12650.9	14335.4
52.5°	10054.8	10184.6	10458.8	10645.5	10773.8	10703.8	10606.1	11401.0	13351.0	15187.2
55°	9359.1	9541.4	9996.4	10447.1	11102.0	11611.0	11739.3	12293.6	14033.5	15936.9
57.5°	8091.7	8387.7	8796.1	9707.7	10810.3	12050.0	13060.7	13531.8	14756.9	16737.6
60°	5918.5	6315.2	6822.8	8179.2	9789.3	11815.2	14185.2	15433.7	15785.2	17774.5
62.5°	3787.7	4032.7	4499.4	5777.1	7627.9	10611.9	14529.4	17811.0	17528.1	19475.1
65°	2593.2	2750.7	3178.0	3895.6	4931.1	7899.1	13607.7	19593.3	20296.3	22170.4
67.5°	1884.4	2004.0	2368.6	2997.2	3213.0	4674.4	10559.4	19511.6	22987.2	24947.4
70°	1373.9	1458.5	1764.8	2368.6	2472.1	2600.5	6396.9	16585.9	22928.8	25685.4
72.5°	1018.0	1076.4	1282.0	1837.7	2001.0	1756.0	3166.4	12054.4	19702.7	23232.2
75°	736.5	780.3	932.0	1406.0	1601.4	1337.4	1579.5	7044.5	13743.3	16342.3
77.5°	563.0	596.5	695.7	1029.7	1282.0	1003.4	980.1	3240.8	6516.5	6548.6
80°	452.1	474.0	528.0	724.9	983.0	751.1	638.8	1308.3	2059.4	1742.9
82.5°	332.5	369.0	446.3	509.0	703.0	517.8	389.4	660.7	783.2	673.8
85°	189.6	214.4	269.8	364.6	449.2	316.5	223.1	293.2	364.6	299.0
87.5°	67.1	87.5	94.8	142.9	195.4	131.3	86.1	84.6	119.6	89.0
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°
4029.8	0°	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8
4073.5	2.5°	4059.0	4051.7	4022.5	3983.1	3942.3	3902.9	3889.8	3862.1	3843.1	3832.9
4168.3	5°	4140.6	4117.3	4048.8	3961.2	3869.4	3770.2	3700.2	3636.0	3589.3	3545.6
4298.2	7.5°	4257.3	4216.5	4098.3	3945.2	3781.8	3617.0	3494.5	3401.2	3338.5	3297.6
4449.8	10°	4393.0	4330.2	4149.4	3920.4	3668.1	3431.8	3287.4	3207.2	3167.8	3145.9
4623.4	12.5°	4549.0	4460.0	4201.9	3863.5	3494.5	3224.7	3125.5	3102.2	3103.7	3105.1
4842.2	15°	4741.5	4617.6	4244.2	3739.6	3268.5	3065.7	3048.2	3086.2	3125.5	3144.5
5090.1	17.5°	4958.8	4783.8	4251.5	3535.4	3046.8	2963.6	3019.1	3100.7	3160.5	3186.8
5367.2	20°	5192.2	4953.0	4199.0	3246.6	2864.5	2880.5	2979.7	3084.7	3150.3	3183.9
5683.7	22.5°	5459.1	5133.9	4073.5	2943.2	2715.7	2790.1	2906.8	3008.9	3077.4	3110.9
6055.6	25°	5763.9	5336.6	3876.7	2688.0	2587.4	2688.0	2804.7	2889.3	2944.7	2975.3
6471.3	27.5°	6102.3	5548.1	3614.1	2485.3	2475.0	2583.0	2679.2	2744.9	2774.0	2797.4
6913.2	30°	6442.1	5740.6	3296.2	2332.1	2377.3	2479.4	2548.0	2577.1	2585.9	2590.3
7406.2	32.5°	6809.7	5906.9	2962.2	2205.2	2284.0	2378.8	2419.6	2432.8	2391.9	2364.2
8004.2	35°	7254.5	6084.8	2635.5	2104.6	2192.1	2273.8	2286.9	2275.2	2227.1	2170.2
8753.8	37.5°	7804.3	6306.5	2374.4	2033.1	2106.1	2160.0	2144.0	2141.1	2145.4	2078.3
9655.2	40°	8478.2	6595.3	2183.4	1977.7	2036.0	2047.7	2002.5	2027.3	2049.2	1947.1
10644.0	42.5°	9226.4	6943.8	2062.3	1939.8	1977.7	1950.0	1880.0	1907.7	1904.8	1770.6
11637.2	45°	9989.2	7323.0	2020.0	1912.1	1923.7	1868.3	1791.0	1798.3	1737.1	1616.0
12589.6	47.5°	10747.6	7730.0	2046.3	1888.7	1856.7	1793.9	1734.1	1702.1	1611.6	1521.2
13502.6	50°	11491.4	8157.3	2142.5	1842.1	1764.8	1728.3	1684.5	1627.7	1531.4	1454.1
14366.1	52.5°	12181.3	8587.6	2250.4	1764.8	1649.5	1671.4	1643.7	1578.1	1483.3	1404.5
15182.8	55°	12834.7	9017.8	2292.7	1658.3	1541.6	1621.8	1605.8	1484.7	1371.0	1306.8
16037.5	57.5°	13546.4	9535.6	2246.1	1522.7	1454.1	1565.0	1503.7	1369.5	1303.9	1255.8
17150.3	60°	14532.3	10347.9	2145.4	1354.9	1371.0	1480.4	1375.4	1319.9	1248.5	1194.5
18818.8	62.5°	16170.2	11863.3	1983.5	1188.7	1273.3	1354.9	1314.1	1258.7	1185.7	1133.2
21671.6	65°	18591.3	13969.4	1678.7	1058.9	1163.9	1232.4	1248.5	1193.0	1117.2	1061.8
24171.5	67.5°	20633.2	15290.7	1270.3	950.9	1051.6	1133.2	1178.5	1124.5	1044.3	990.3
24756.3	70°	20520.9	14331.1	969.9	844.5	952.4	1035.5	1093.9	1051.6	965.5	914.5
22486.9	72.5°	18226.7	11988.7	784.7	736.5	851.8	933.4	1003.4	971.4	883.8	834.3
16473.6	75°	13390.3	8510.3	627.1	627.1	726.3	827.0	904.3	883.8	803.6	768.6
6916.1	77.5°	5644.3	3570.4	491.5	520.7	603.8	710.3	806.5	813.8	743.8	787.6
1828.9	80°	1500.8	984.5	374.8	409.8	474.0	586.3	701.5	698.6	622.8	581.9
679.7	82.5°	571.7	388.0	266.9	288.8	342.7	449.2	555.7	573.2	497.3	430.3
266.9	85°	220.2	166.3	164.8	173.6	199.8	297.5	420.0	434.6	374.8	317.9
74.4	87.5°	56.9	49.6	61.3	58.3	91.9	159.0	240.6	249.4	229.0	132.7
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>
4029.8
3844.6
3563.1
3306.4
3151.8
3108.0
3143.0
3192.6
3192.6
3119.7
2984.1
2806.1
2600.5
2373.0
2173.1
2082.7
1950.0
1769.1
1620.4
1521.2
1448.3
1406.0
1301.0
1251.4
1191.6
1133.2
1064.7
991.8
<i>918.8</i>
834.3
758.4
714.7
541.1
430.3
328.2
189.6
0.0

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