

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: P941844

Luminaire Tested: **GALN-SB5C-827-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941844  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5C-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

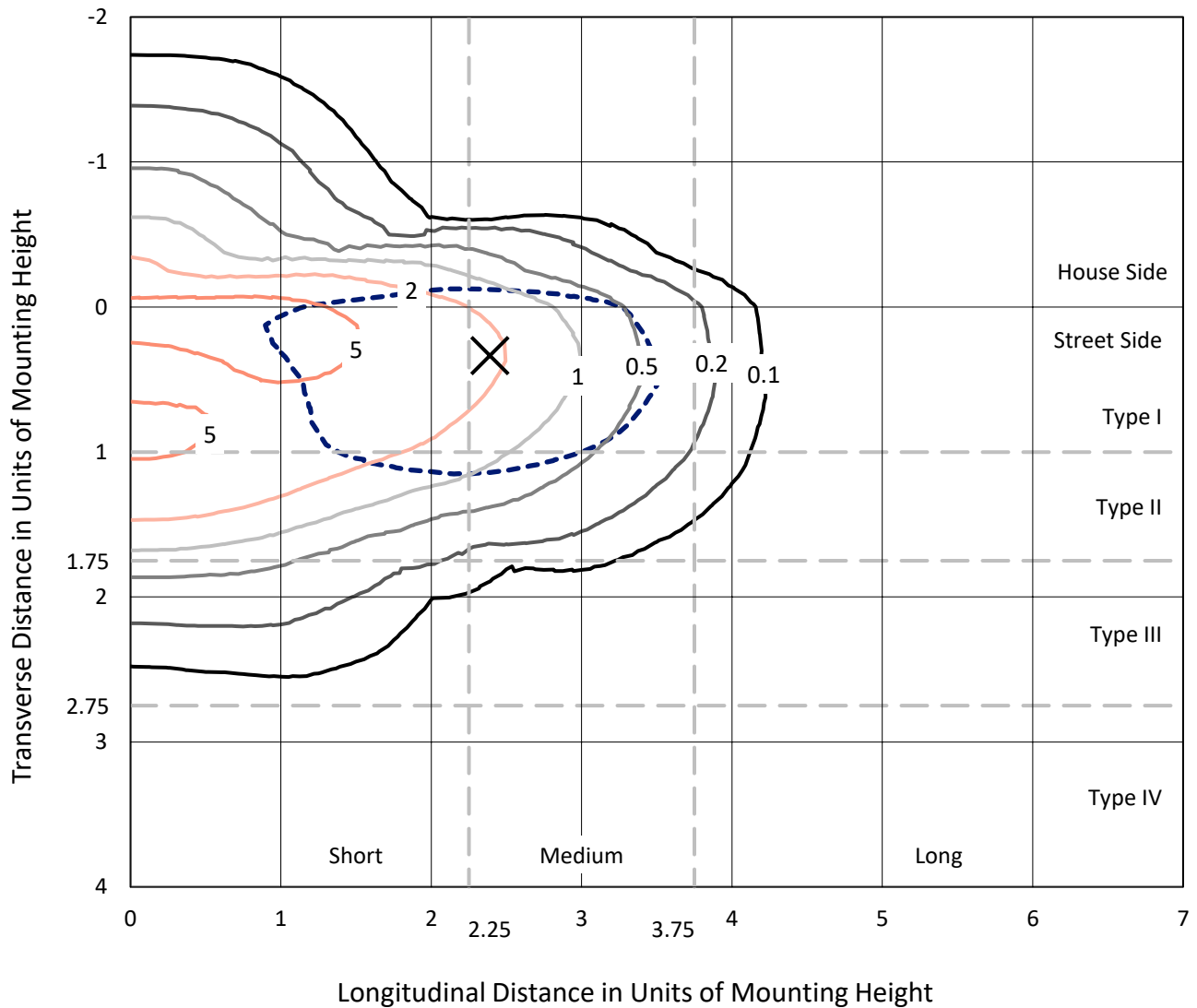
Lumens per Lamp: N/A  
Luminaire Lumens: 24022 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

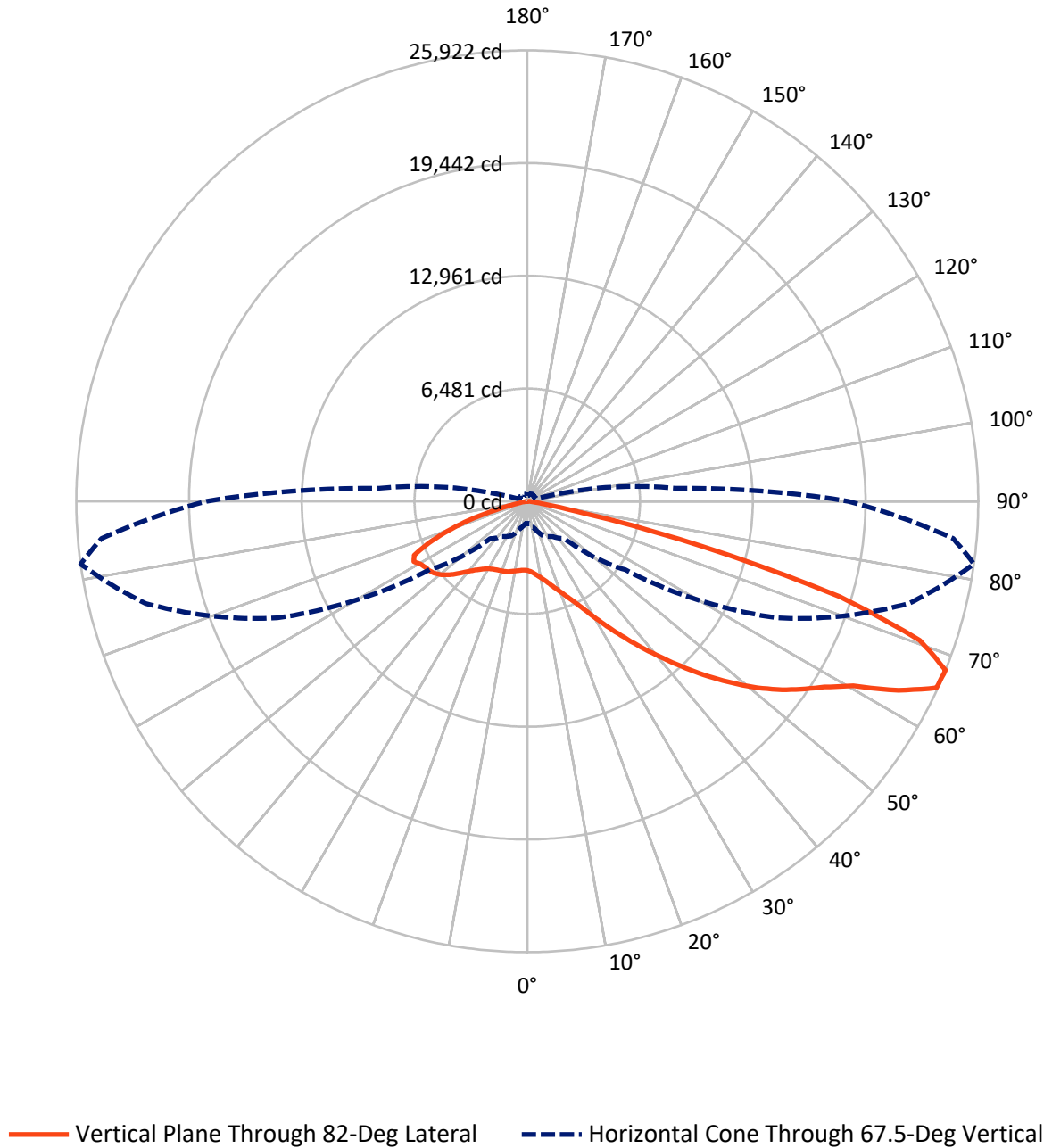
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	4351.4	0.0	4351.4
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	19670.6	0.0	19670.6
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	24022.0	0.0	24022.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	354.6	1.5
10°-20°	921.3	3.8
20°-30°	1475.7	6.1
30°-40°	2609.5	10.9
40°-50°	4572.1	19.0
50°-60°	6097.9	25.4
60°-70°	5676.8	23.6
70°-80°	2178.8	9.1
80°-90°	135.3	0.6
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°	24022.0	100.0
0°-180°	24022.0	100.0

**Coefficient of Utilization**



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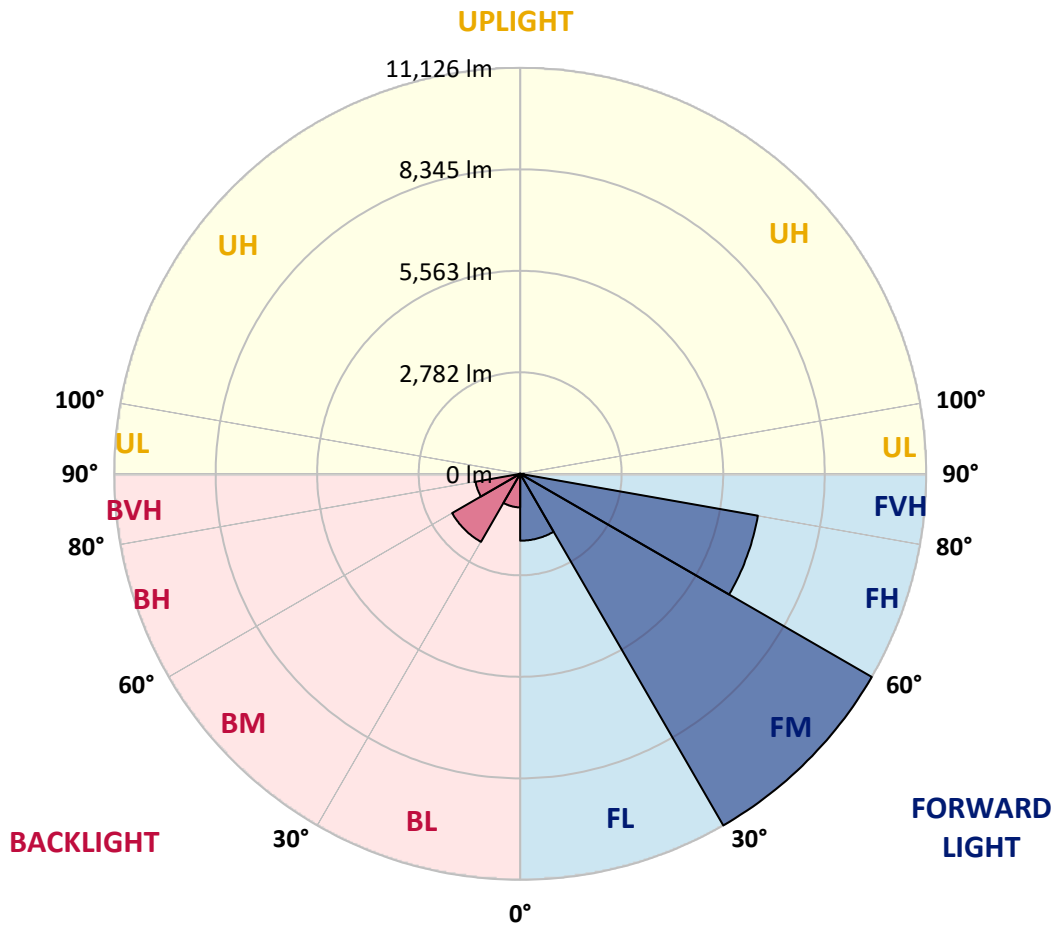
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1832.6	7.6			
FM (30°-60°)	11126.0	46.3			
FH (60°-80°)	6613.6	27.5			G3/7500
FVH (80°-90°)	98.4	0.4			G1/100
BL (0°-30°)	919.0	3.8	B2/1000		
BM (30°-60°)	2153.5	9.0	B2/2500		
BH (60°-80°)	1242.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	36.9	0.2			G1/100
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°	82°
0°	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6
2.5°	4206.2	4230.4	4216.6	4209.7	4197.6	4180.3	4166.4	4123.2	4078.2	4048.8
5°	4290.9	4315.2	4313.4	4320.3	4329.0	4334.2	4330.7	4282.3	4218.3	4168.2
7.5°	4218.3	4246.0	4268.5	4303.1	4363.6	4427.6	4458.7	4448.3	4382.6	4313.4
10°	4012.5	4041.9	4095.5	4176.8	4304.8	4443.1	4559.0	4612.6	4571.1	4495.0
12.5°	3635.5	3664.9	3770.4	3946.8	4161.2	4401.6	4623.0	4766.6	4776.9	4700.8
15°	3211.7	3241.1	3353.5	3574.9	3901.8	4287.5	4657.6	4929.1	5020.8	4955.1
17.5°	2948.8	2974.8	3059.5	3237.7	3578.4	4059.2	4645.5	5102.1	5311.4	5259.5
20°	2869.3	2891.8	2931.5	3056.1	3339.7	3822.2	4565.9	5264.7	5624.4	5595.0
22.5°	2954.0	2974.8	2986.9	3042.2	3220.4	3666.6	4465.6	5430.7	5987.6	5991.1
25°	3149.5	3170.2	3156.4	3191.0	3268.8	3618.2	4427.6	5626.1	6444.2	6482.3
27.5°	3471.2	3472.9	3440.0	3438.3	3450.4	3690.8	4467.4	5835.4	7020.1	7091.0
30°	4116.3	4090.3	3964.1	3827.4	3765.2	3908.7	4578.0	6082.7	7699.8	7826.1
32.5°	5110.7	5072.7	4840.9	4514.1	4185.4	4259.8	4776.9	6364.6	8440.1	8668.4
35°	6190.0	6179.6	5937.5	5451.5	4877.3	4759.6	5100.4	6734.8	9247.8	9611.0
37.5°	7193.1	7187.9	7049.5	6477.1	5778.3	5456.6	5619.2	7219.0	10112.5	10638.3
40°	8109.7	8125.3	7986.9	7475.0	6771.1	6350.8	6324.9	7817.4	11074.1	11757.3
42.5°	8901.9	8919.2	8779.1	8400.3	7751.7	7340.1	7191.4	8550.8	12013.3	12959.3
45°	9439.7	9547.0	9526.2	9223.5	8758.3	8331.1	8232.5	9470.9	13083.8	14234.0
47.5°	9591.9	9690.5	9846.2	9887.7	9604.0	9183.8	9301.4	10579.5	14166.5	15510.4
50°	9216.6	9308.3	9631.7	10062.4	10259.5	10129.8	10340.8	11767.7	15275.1	16783.3
52.5°	8476.4	8569.8	8978.0	9659.4	10463.6	10871.8	11383.7	12938.6	16349.2	17988.8
55°	7405.8	7504.4	8028.4	8799.8	10074.5	11177.9	12253.7	14107.7	17333.3	19073.2
57.5°	5949.6	6022.2	6567.0	7646.2	9095.6	10873.5	12895.3	15384.1	18260.3	20138.6
60°	3877.6	3941.6	4574.6	5778.3	7473.3	9856.6	13023.3	16807.5	19491.7	21523.9
62.5°	2578.7	2622.0	2997.3	3881.0	5262.9	7903.9	12274.4	17943.8	21297.3	23934.9
65°	1769.3	1812.5	2187.8	2803.6	3400.2	5228.3	10121.2	17793.3	22933.5	25849.5
67.5°	1262.6	1298.9	1617.1	2198.2	2461.1	3037.0	6861.0	15870.1	22698.3	25922.1
70°	904.5	925.3	1188.2	1712.2	1956.1	1824.6	3815.3	12137.8	19873.9	23936.6
72.5°	633.0	639.9	825.0	1304.1	1575.6	1331.7	1816.0	8092.4	15031.3	18787.8
75°	428.9	437.6	555.2	956.4	1264.3	1017.0	961.6	4339.4	8824.0	10399.6
77.5°	262.9	266.3	358.0	653.8	946.0	774.8	619.2	1838.5	3414.1	3351.8
80°	148.7	148.7	228.3	406.4	645.1	499.8	434.1	781.7	1081.0	949.5
82.5°	83.0	84.7	166.0	252.5	427.2	295.7	238.7	361.5	467.0	413.4
85°	34.6	38.0	102.0	119.3	204.1	147.0	96.9	152.2	173.0	153.9
87.5°	3.5	5.2	31.1	22.5	24.2	29.4	13.8	29.4	24.2	24.2
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°
3979.6	0°	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6
4038.4	2.5°	4005.6	3979.6	3913.9	3837.8	3737.5	3689.1	3623.4	3578.4	3540.3	3543.8
4138.7	5°	4083.4	4017.7	3870.7	3687.3	3459.0	3296.5	3123.5	3004.2	2907.3	2886.6
4277.1	7.5°	4190.6	4086.9	3829.2	3498.8	3113.1	2820.9	2559.7	2391.9	2272.6	2234.5
4444.9	10°	4329.0	4178.5	3775.5	3261.9	2706.7	2334.9	2054.7	1923.2	1841.9	1814.3
4642.0	12.5°	4489.8	4284.0	3704.6	2973.1	2288.2	1930.1	1752.0	1686.3	1660.3	1651.7
4884.2	15°	4692.2	4415.5	3597.4	2630.6	1933.6	1682.8	1606.7	1598.1	1601.5	1598.1
5174.7	17.5°	4932.6	4559.0	3422.7	2277.8	1694.9	1556.6	1528.9	1535.8	1544.5	1542.7
5499.9	20°	5195.5	4700.8	3199.6	1964.7	1532.4	1466.6	1451.1	1458.0	1464.9	1461.4
5875.2	22.5°	5494.7	4853.0	2952.3	1720.9	1423.4	1383.6	1366.3	1368.1	1368.1	1361.1
6350.8	25°	5852.7	5020.8	2692.9	1547.9	1340.4	1309.2	1288.5	1281.6	1271.2	1250.4
6928.5	27.5°	6279.9	5198.9	2443.8	1426.9	1274.7	1245.3	1221.0	1203.7	1177.8	1143.2
7622.0	30°	6760.7	5415.1	2232.8	1350.8	1222.8	1193.4	1165.7	1139.8	1101.7	1058.5
8419.3	32.5°	7326.3	5646.9	2078.9	1300.6	1176.1	1144.9	1112.1	1081.0	1039.4	996.2
9315.2	35°	8000.8	5927.1	1989.0	1266.0	1139.8	1098.2	1061.9	1027.3	996.2	958.2
10288.9	37.5°	8732.4	6224.6	1961.3	1248.7	1115.5	1051.5	1010.0	985.8	982.4	959.9
11342.2	40°	9533.1	6577.4	1982.0	1238.3	1089.6	1006.6	961.6	956.4	965.1	925.3
12468.1	42.5°	10380.6	6995.9	2016.6	1226.2	1053.3	961.6	918.4	918.4	911.5	856.1
13658.0	45°	11297.2	7478.5	2051.2	1196.8	1010.0	916.6	883.8	871.7	842.3	788.7
14854.9	47.5°	12220.8	7969.6	2077.2	1143.2	958.2	878.6	849.2	821.5	778.3	729.9
16029.2	50°	13097.7	8410.7	2049.5	1063.7	899.4	842.3	811.1	773.1	726.4	693.5
17141.3	52.5°	13881.2	8792.9	1931.9	970.3	837.1	804.2	776.6	736.8	698.7	664.1
18144.4	55°	14562.6	9102.5	1724.3	882.1	781.7	771.4	743.7	693.5	641.7	612.3
19138.9	57.5°	15216.3	9337.7	1464.9	809.4	731.6	735.0	693.5	648.6	600.1	569.0
20479.3	60°	16086.3	9652.5	1202.0	742.0	678.0	688.4	643.4	610.5	550.0	510.2
22777.8	62.5°	17476.8	10141.9	954.7	658.9	615.7	619.2	600.1	560.4	487.7	441.0
24481.4	65°	18580.3	9962.1	752.3	569.0	544.8	550.0	550.0	506.8	428.9	375.3
24573.1	67.5°	18455.7	8530.0	600.1	480.8	477.3	480.8	492.9	456.6	380.5	337.3
22701.7	70°	17001.2	6784.9	480.8	399.5	415.1	406.4	441.0	416.8	342.4	299.2
17599.6	72.5°	13872.5	4887.6	366.7	330.3	318.2	332.1	397.8	375.3	285.4	236.9
9322.1	75°	8106.3	2608.1	273.3	261.2	230.0	276.7	352.8	320.0	217.9	174.7
2857.2	77.5°	2639.3	909.7	200.6	192.0	171.2	223.1	300.9	269.8	178.1	138.4
837.1	80°	707.4	275.0	136.6	126.3	110.7	166.0	238.7	214.5	128.0	89.9
359.7	82.5°	283.6	115.9	79.6	70.9	60.5	114.1	188.5	173.0	95.1	57.1
112.4	85°	91.7	38.0	29.4	22.5	27.7	70.9	112.4	117.6	67.5	29.4
17.3	87.5°	12.1	5.2	5.2	6.9	5.2	12.1	34.6	32.9	19.0	3.5
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>
3979.6
3509.2
2839.9
2196.5
1793.5
1646.5
1596.3
1539.3
1459.7
1357.7
1247.0
1139.8
1055.0
997.9
954.7
958.2
927.0
856.1
786.9
728.1
688.4
660.7
608.8
565.6
505.0
437.6
370.1
330.3
294.0
231.8
169.5
133.2
88.2
57.1
22.5
0.0
0.0

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