

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: P941675

Luminaire Tested: **GALN-SB5B-827-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941675  
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-SB5B-827-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24508 lumens  
Efficiency: N/A  
Efficacy: 134.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

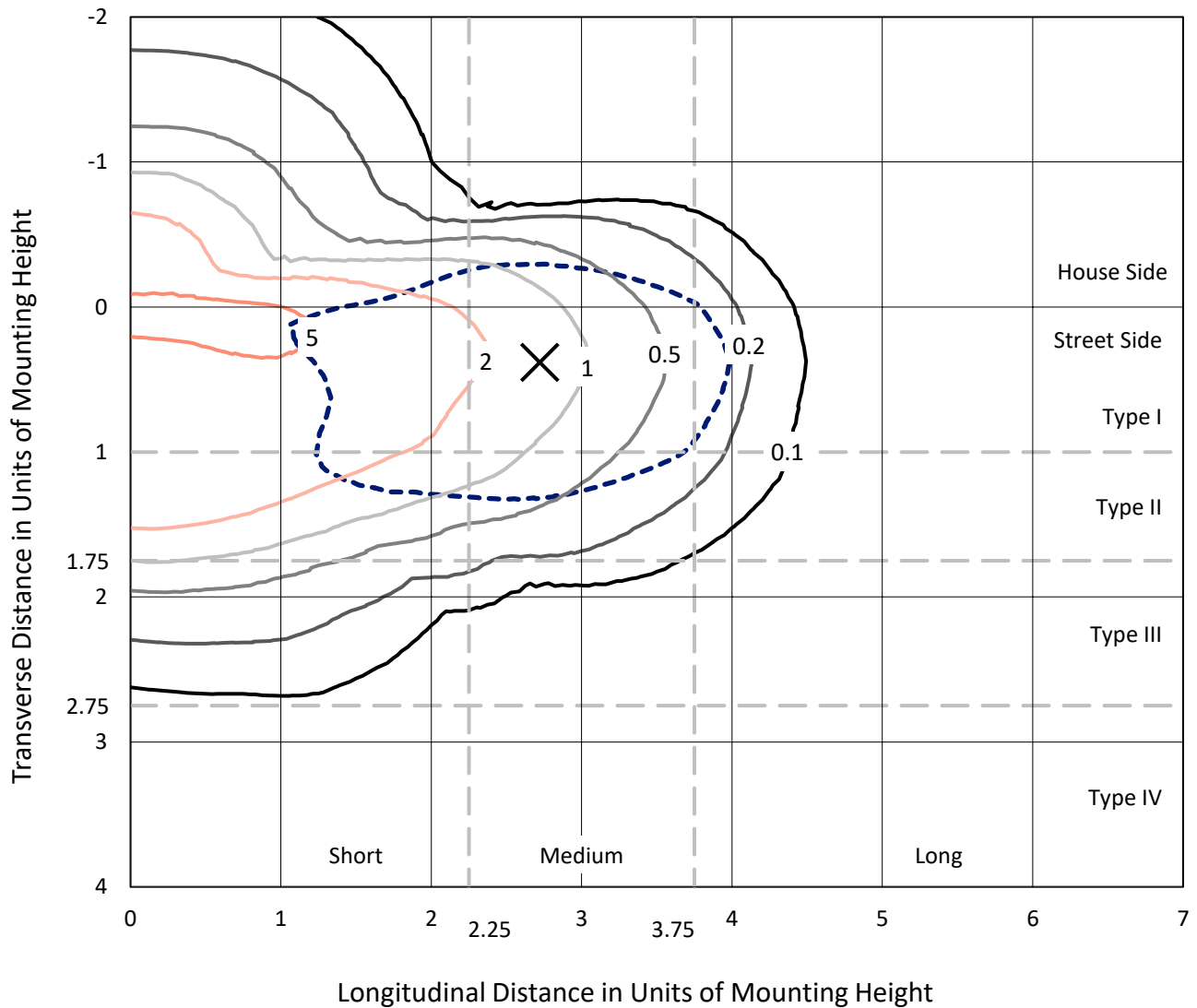
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

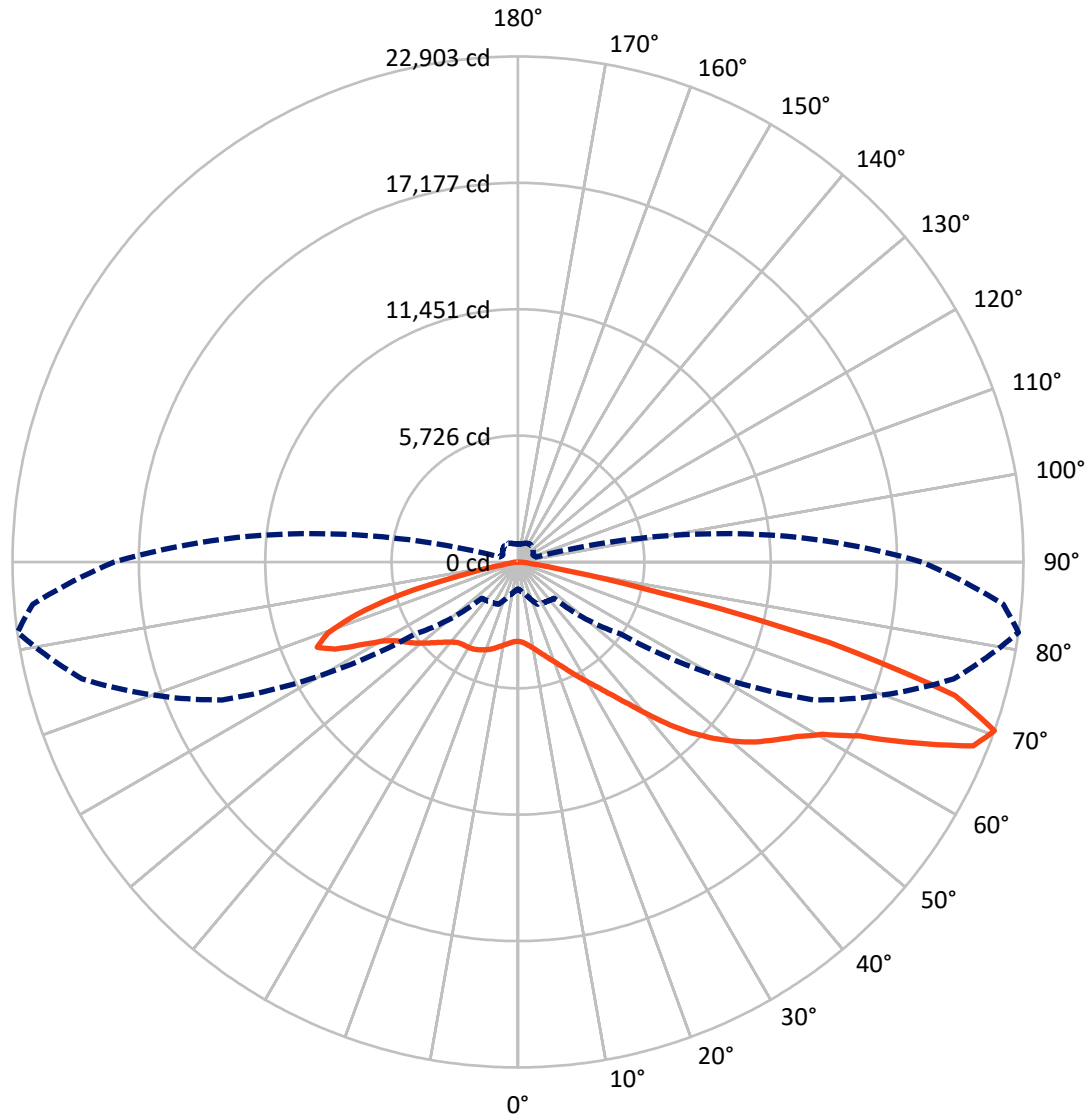
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	6041.8	0.0	6041.8
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	18466.2	0.0	18466.2
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	24508.0	0.0	24508.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.3	1.4
10°-20°	974.7	4.0
20°-30°	1630.6	6.7
30°-40°	2547.4	10.4
40°-50°	4057.1	16.6
50°-60°	5645.9	23.0
60°-70°	5905.9	24.1
70°-80°	3086.7	12.6
80°-90°	320.5	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°	24508.0	100.0
0°-180°	24508.0	100.0

**Coefficient of Utilization**



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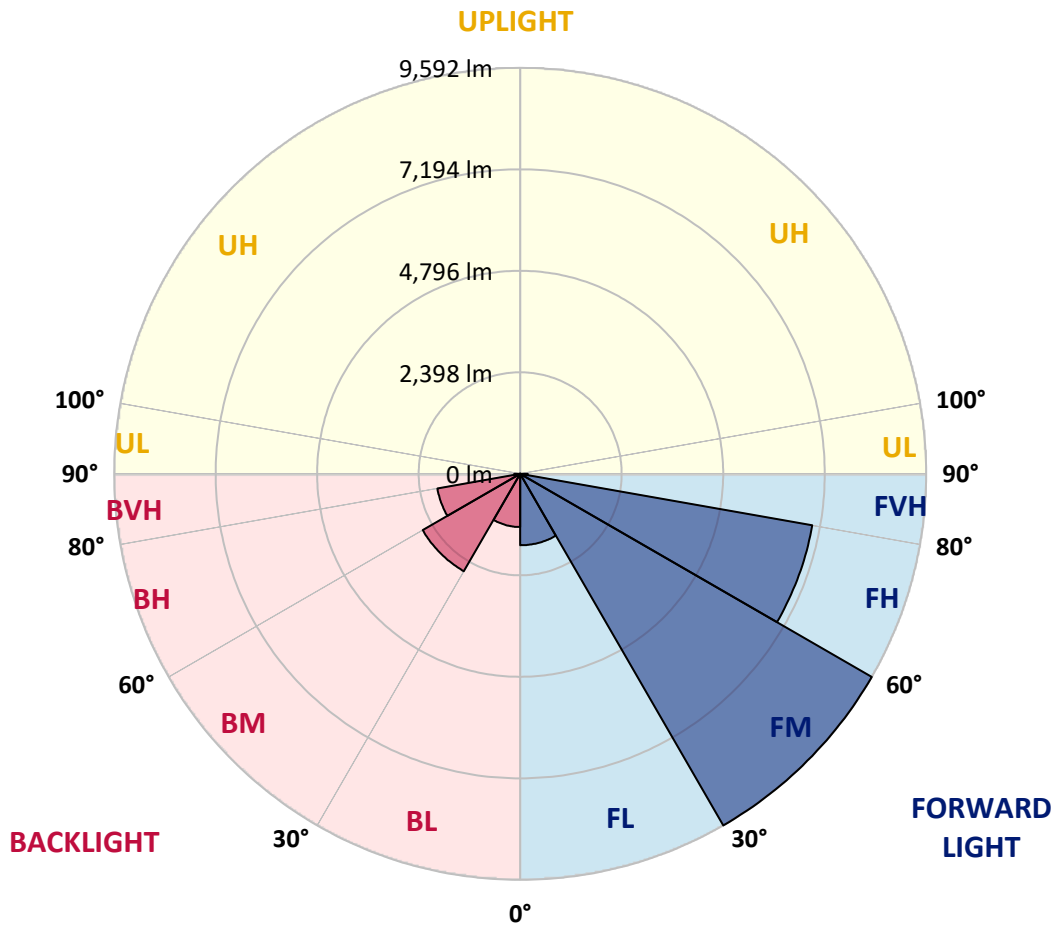
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1687.6	6.9			
FM (30°-60°)	9592.2	39.1			
FH (60°-80°)	7006.9	28.6			G3/7500
FVH (80°-90°)	179.4	0.7			G2/225
BL (0°-30°)	1256.9	5.1	B3/2500		
BM (30°-60°)	2658.2	10.8	B3/5000		
BH (60°-80°)	1985.7	8.1	B3/2500		G3/2500
BVH (80°-90°)	141.1	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-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3593.2	3593.2	3593.2	3593.2	3593.2	3593.2	3593.2	3593.2	3593.2	3593.2
2.5°	3679.0	3699.8	3693.3	3686.8	3686.8	3677.7	3676.4	3663.4	3653.0	3636.1
5°	3725.8	3747.9	3745.3	3750.5	3767.4	3771.3	3775.2	3767.4	3746.6	3725.8
7.5°	3684.2	3708.9	3716.7	3747.9	3800.0	3846.8	3881.9	3896.2	3876.7	3846.8
10°	3543.8	3571.1	3598.4	3672.5	3764.8	3875.4	3969.0	4024.9	4021.0	3992.4
12.5°	3259.0	3287.6	3346.1	3490.4	3659.5	3854.6	4028.8	4145.9	4186.2	4165.4
15°	3031.4	3056.1	3100.3	3248.6	3468.3	3764.8	4050.9	4278.5	4381.3	4369.6
17.5°	3024.9	3035.3	3062.6	3132.8	3301.9	3624.4	4027.5	4408.6	4604.9	4603.6
20°	3139.3	3143.2	3158.8	3173.1	3269.4	3517.8	3967.7	4516.5	4855.9	4855.9
22.5°	3298.0	3295.4	3311.0	3298.0	3344.8	3508.6	3930.0	4611.4	5135.5	5156.3
25°	3536.0	3523.0	3519.1	3489.1	3498.2	3593.2	3971.6	4719.4	5467.1	5510.1
27.5°	3853.3	3832.5	3818.2	3749.2	3725.8	3767.4	4099.1	4849.4	5836.5	5910.6
30°	4266.8	4229.1	4208.3	4088.7	4004.1	4010.6	4291.5	5022.4	6222.7	6342.4
32.5°	4831.2	4772.7	4716.8	4520.4	4365.7	4314.9	4539.9	5261.7	6641.5	6832.6
35°	5463.2	5416.4	5356.6	5053.6	4815.6	4698.6	4875.4	5595.9	7131.7	7434.7
37.5°	6071.9	6031.5	6060.2	5651.8	5344.9	5174.5	5315.0	6044.6	7736.5	8183.8
40°	6701.3	6670.1	6674.0	6283.8	5926.2	5735.0	5848.2	6607.7	8429.6	9074.6
42.5°	7385.3	7361.9	7283.9	6938.0	6536.1	6358.0	6462.0	7257.9	9173.5	10089.0
45°	8151.3	8137.0	8064.2	7667.5	7207.2	7006.9	7147.3	7975.7	9921.2	11043.5
47.5°	8813.2	8824.9	8815.8	8481.6	8004.3	7710.4	7878.2	8724.8	10617.0	11940.9
50°	9131.9	9193.0	9282.7	9178.7	8882.2	8583.1	8615.6	9447.9	11280.2	12782.3
52.5°	8965.4	9081.1	9325.6	9492.1	9606.5	9544.1	9457.0	10165.7	11904.4	13541.7
55°	8345.1	8507.6	8913.4	9315.2	9899.1	10353.0	10467.4	10961.6	12513.1	14210.2
57.5°	7215.0	7479.0	7843.1	8655.9	9639.0	10744.4	11645.6	12065.7	13158.1	14924.1
60°	5277.3	5631.0	6083.6	7293.0	8728.7	10535.1	12648.3	13761.5	14074.9	15848.7
62.5°	3377.3	3595.8	4011.9	5151.1	6801.4	9462.2	12955.2	15881.3	15629.0	17365.1
65°	2312.2	2452.7	2833.7	3473.5	4396.9	7043.3	12133.3	17470.4	18097.2	19768.3
67.5°	1680.2	1786.8	2112.0	2672.5	2864.9	4168.0	9415.4	17397.6	20496.6	22244.4
70°	1225.0	1300.5	1573.6	2112.0	2204.3	2318.7	5703.8	14788.9	20444.6	22902.5
72.5°	907.7	959.7	1143.1	1638.6	1784.2	1565.8	2823.3	10748.3	17568.0	20715.1
75°	656.7	695.7	831.0	1253.6	1427.9	1192.5	1408.4	6281.2	12254.3	14571.7
77.5°	502.0	531.9	620.3	918.1	1143.1	894.7	873.9	2889.6	5810.5	5839.1
80°	403.1	422.7	470.8	646.3	876.5	669.7	569.6	1166.5	1836.3	1554.1
82.5°	296.5	329.0	397.9	453.9	626.8	461.7	347.2	589.1	698.3	600.8
85°	169.1	191.2	240.6	325.1	400.5	282.2	199.0	261.4	325.1	266.6
87.5°	59.8	78.0	84.5	127.4	174.3	117.0	76.7	75.4	106.6	79.3
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°
3593.2	0°	3593.2	3593.2	3593.2	3593.2	3593.2	3593.2	3593.2	3593.2	3593.2	3593.2
3632.2	2.5°	3619.2	3612.7	3586.7	3551.6	3515.2	3480.0	3468.3	3443.6	3426.7	3417.6
3716.7	5°	3692.0	3671.2	3610.1	3532.1	3450.1	3361.7	3299.3	3242.1	3200.4	3161.4
3832.5	7.5°	3796.1	3759.6	3654.3	3517.8	3372.1	3225.1	3115.9	3032.7	2976.8	2940.3
3967.7	10°	3917.0	3861.1	3699.8	3495.6	3270.7	3060.0	2931.2	2859.7	2824.6	2805.1
4122.5	12.5°	4056.1	3976.8	3746.6	3444.9	3115.9	2875.3	2786.9	2766.1	2767.4	2768.7
4317.5	15°	4227.8	4117.3	3784.3	3334.4	2914.3	2733.6	2718.0	2751.8	2786.9	2803.8
4538.6	17.5°	4421.6	4265.5	3790.8	3152.3	2716.7	2642.5	2692.0	2764.8	2818.1	2841.5
4785.7	20°	4629.6	4416.4	3744.0	2894.8	2554.1	2568.4	2656.8	2750.5	2809.0	2838.9
5067.9	22.5°	4867.6	4577.6	3632.2	2624.3	2421.5	2487.8	2591.8	2682.9	2744.0	2773.9
5399.5	25°	5139.4	4758.4	3456.6	2396.8	2307.0	2396.8	2500.8	2576.2	2625.6	2652.9
5770.2	27.5°	5441.1	4947.0	3222.5	2216.0	2206.9	2303.1	2389.0	2447.5	2473.5	2494.3
6164.2	30°	5744.1	5118.6	2939.0	2079.4	2119.8	2210.8	2271.9	2297.9	2305.7	2309.6
6603.8	32.5°	6071.9	5266.9	2641.2	1966.3	2036.5	2121.1	2157.5	2169.2	2132.8	2108.1
7136.9	35°	6468.5	5425.5	2349.9	1876.6	1954.6	2027.4	2039.1	2028.7	1985.8	1935.1
7805.4	37.5°	6958.8	5623.2	2117.2	1812.8	1877.9	1926.0	1911.7	1909.1	1913.0	1853.2
8609.1	40°	7559.6	5880.7	1946.8	1763.4	1815.4	1825.9	1785.5	1807.6	1827.2	1736.1
9490.8	42.5°	8226.7	6191.5	1838.9	1729.6	1763.4	1738.7	1676.3	1701.0	1698.4	1578.8
10376.4	45°	8906.9	6529.6	1801.1	1704.9	1715.3	1665.9	1597.0	1603.5	1548.9	1440.9
11225.6	47.5°	9583.1	6892.5	1824.5	1684.1	1655.5	1599.6	1546.3	1517.6	1437.0	1356.4
12039.7	50°	10246.3	7273.5	1910.4	1642.5	1573.6	1541.0	1502.0	1451.3	1365.5	1296.6
12809.6	52.5°	10861.5	7657.1	2006.6	1573.6	1470.8	1490.3	1465.6	1407.1	1322.6	1252.3
13537.8	55°	11444.1	8040.8	2044.3	1478.6	1374.6	1446.1	1431.8	1323.9	1222.4	1165.2
14299.9	57.5°	12078.7	8502.4	2002.7	1357.7	1296.6	1395.4	1340.8	1221.1	1162.6	1119.7
15292.1	60°	12957.8	9226.8	1913.0	1208.1	1222.4	1320.0	1226.3	1176.9	1113.2	1065.1
16779.9	62.5°	14418.2	10578.0	1768.6	1059.9	1135.3	1208.1	1171.7	1122.3	1057.3	1010.5
19323.6	65°	16577.0	12455.8	1496.8	944.1	1037.8	1098.9	1113.2	1063.8	996.2	946.7
21552.6	67.5°	18397.7	13634.1	1132.7	847.9	937.6	1010.5	1050.8	1002.7	931.1	883.0
22074.1	70°	18297.5	12778.3	864.8	753.0	849.2	923.3	975.3	937.6	860.9	815.4
20050.5	72.5°	16251.9	10689.8	699.6	656.7	759.5	832.3	894.7	866.1	788.1	743.9
14688.7	75°	11939.6	7588.2	559.2	559.2	647.6	737.4	806.3	788.1	716.6	685.3
6166.8	77.5°	5032.8	3183.5	438.3	464.3	538.4	633.3	719.2	725.7	663.2	702.3
1630.8	80°	1338.2	877.8	334.2	365.4	422.7	522.8	625.5	622.9	555.3	518.9
606.0	82.5°	509.8	345.9	238.0	257.5	305.6	400.5	495.5	511.1	443.5	383.6
238.0	85°	196.4	148.3	147.0	154.8	178.2	265.3	374.5	387.5	334.2	283.5
66.3	87.5°	50.7	44.2	54.6	52.0	81.9	141.8	214.6	222.4	204.2	118.3
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>
3593.2
3428.0
3177.0
2948.1
2810.3
2771.3
2802.5
2846.7
2846.7
2781.7
2660.7
2502.1
2318.7
2115.9
1937.7
1857.1
1738.7
1577.5
1444.8
1356.4
1291.4
1253.6
1160.0
1115.8
1062.5
1010.5
949.3
884.3
<i>819.3</i>
743.9
676.2
637.2
482.5
383.6
292.6
169.1
0.0

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