

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: P955401

Luminaire Tested: **GALN-SB8B-840-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-840-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42567 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

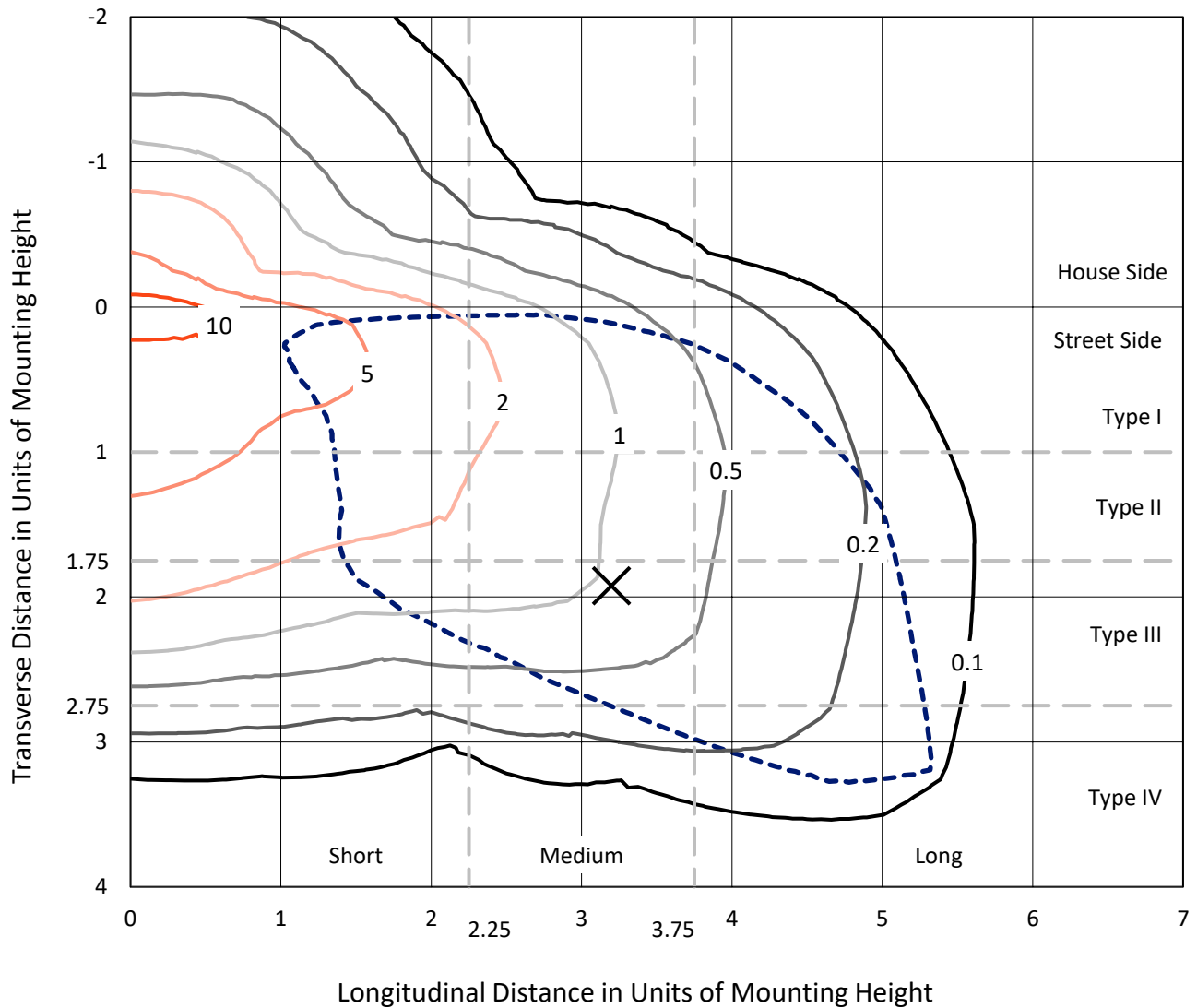
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

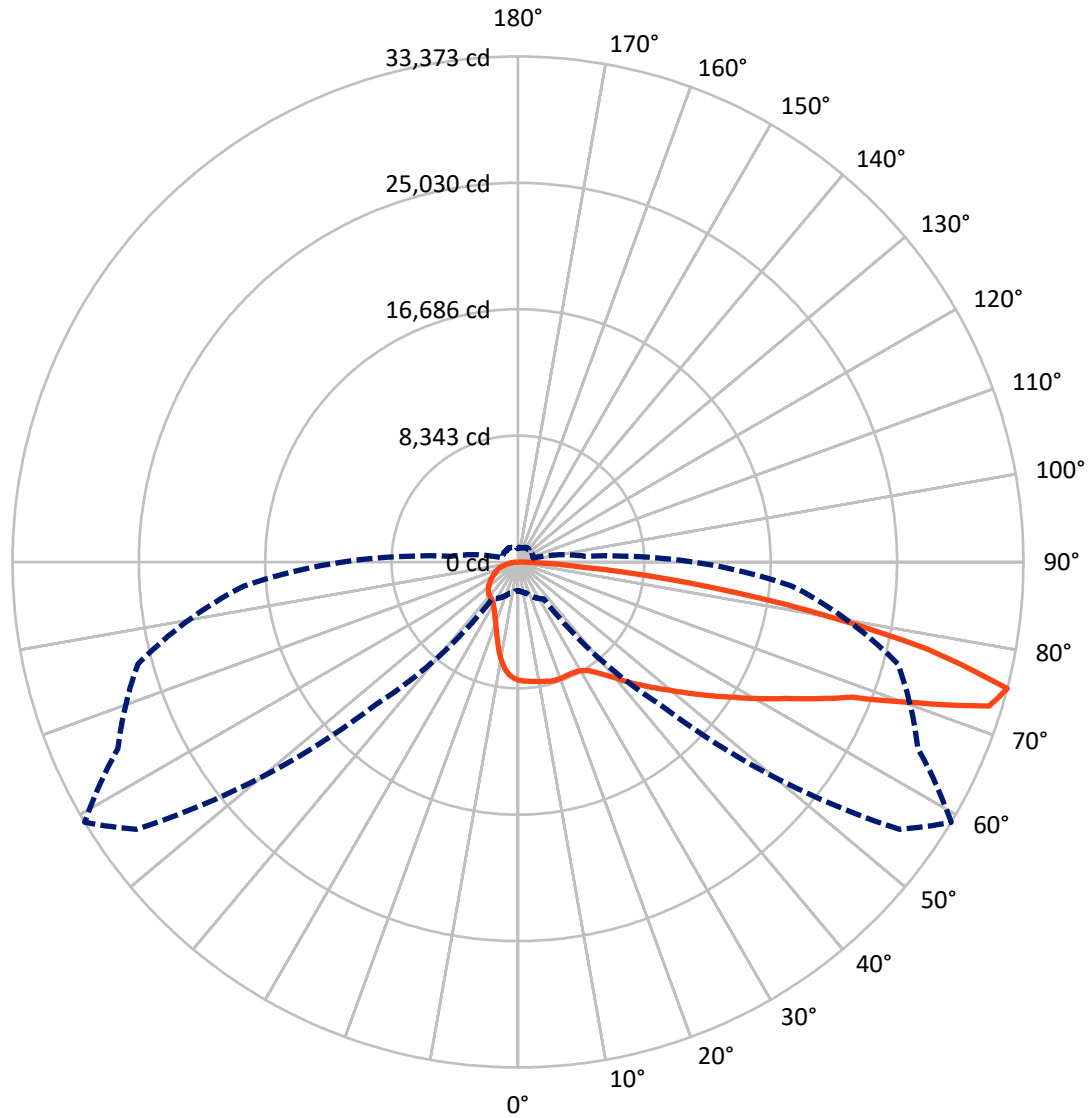
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7983.7	0.0	7983.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	34583.3	0.0	34583.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	42567.0	0.0	42567.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	700.6	1.6
10°-20°	1790.7	4.2
20°-30°	2719.9	6.4
30°-40°	4043.1	9.5
40°-50°	6012.8	14.1
50°-60°	8161.7	19.2
60°-70°	9964.0	23.4
70°-80°	7819.7	18.4
80°-90°	1354.6	3.2
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°	42567.0	100.0
0°-180°	42567.0	100.0

Coefficient of Utilization



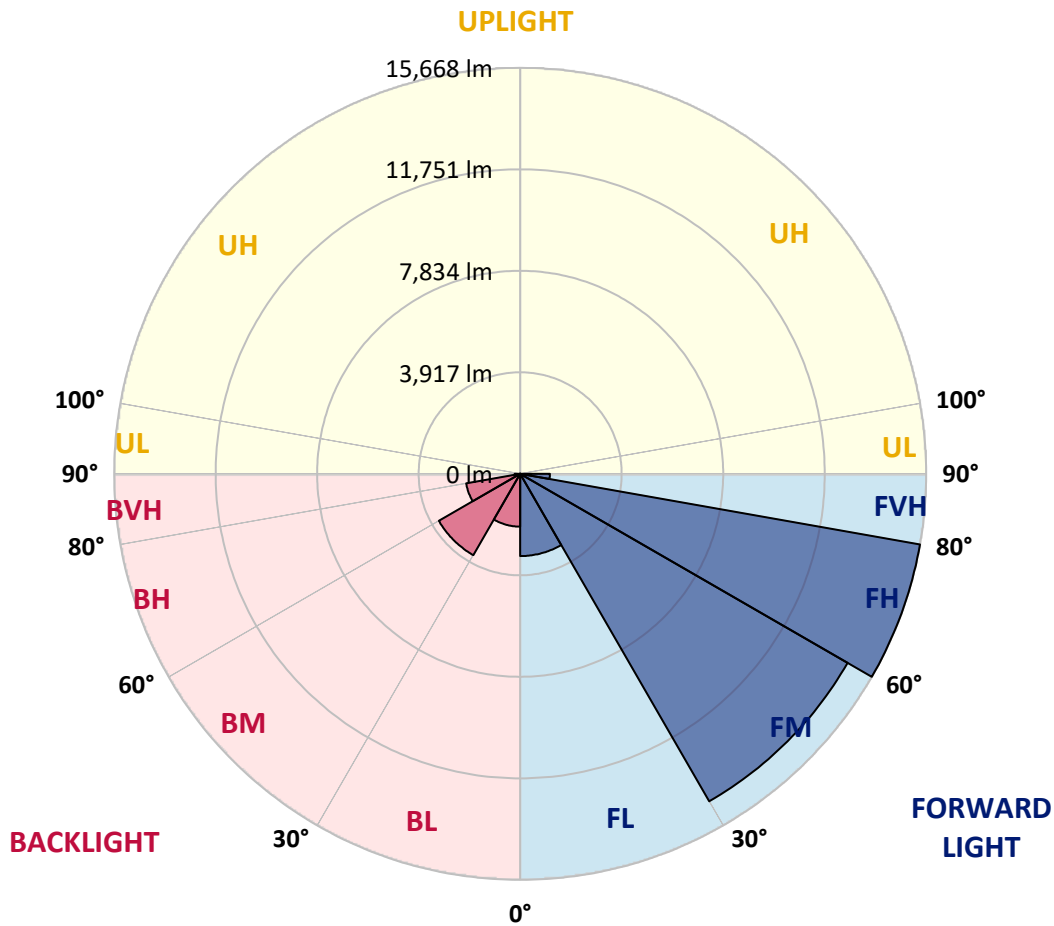
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3173.8	7.5			
FM (30°-60°)	14593.7	34.3			
FH (60°-80°)	15668.5	36.8			G5
FVH (80°-90°)	1147.2	2.7			G5
BL (0°-30°)	2037.4	4.8	B3/2500		
BM (30°-60°)	3623.8	8.5	B3/5000		
BH (60°-80°)	2115.2	5.0	B3/2500		G3/2500
BVH (80°-90°)	207.4	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	7813.1	7813.1	7813.1	7813.1	7813.1	7813.1	7813.1	7813.1	7813.1	7813.1
2.5°	7879.5	7852.0	7879.5	7868.0	7863.5	7854.3	7856.6	7872.6	7863.5	7874.9
5°	7826.8	7810.8	7838.3	7831.4	7861.2	7865.7	7895.5	7913.8	7925.3	7927.6
7.5°	7739.8	7723.8	7762.7	7794.8	7858.9	7877.2	7939.0	7968.8	7984.8	8012.3
10°	7421.5	7414.6	7510.8	7632.2	7783.3	7877.2	7971.1	8021.5	8046.6	8119.9
12.5°	6858.2	6867.4	6993.3	7226.9	7529.1	7831.4	8007.7	8081.0	8119.9	8211.5
15°	6320.1	6317.8	6455.2	6704.8	7128.4	7629.9	8026.0	8152.0	8218.4	8353.5
17.5°	6008.7	5999.5	6095.7	6285.7	6679.6	7320.8	7980.2	8190.9	8332.9	8502.3
20°	5951.4	5933.1	5983.5	6077.3	6356.7	6981.9	7861.2	8190.9	8424.5	8644.3
22.5°	6159.8	6130.0	6109.4	6098.0	6221.6	6702.5	7726.1	8163.4	8559.6	8848.1
25°	6578.8	6533.0	6427.7	6324.7	6288.0	6576.5	7607.0	8156.6	8761.1	9122.9
27.5°	7256.6	7199.4	6986.4	6739.1	6517.0	6640.7	7554.3	8197.8	8983.2	9413.7
30°	8097.0	8035.2	7767.3	7387.2	6988.7	6878.8	7620.7	8319.1	9267.2	9800.7
32.5°	8850.4	8781.7	8552.7	8165.7	7627.6	7291.0	7831.4	8550.4	9713.7	10338.8
35°	9519.0	9438.9	9232.8	8875.6	8410.7	7870.3	8211.5	8960.3	10348.0	11213.6
37.5°	10173.9	10080.1	9855.7	9477.8	9152.7	8642.0	8735.9	9487.0	11190.7	12276.1
40°	10906.7	10771.6	10499.1	10125.9	9809.9	9546.5	9425.2	10132.7	12047.1	13462.2
42.5°	11616.6	11488.3	11163.2	10844.9	10448.7	10373.2	10224.3	10888.4	12983.6	14765.2
45°	12381.4	12228.0	11834.1	11431.1	11181.5	10922.7	10998.3	11644.1	13901.9	16093.3
47.5°	13098.1	12926.4	12461.5	12012.7	11875.3	11385.3	11708.2	12475.3	14856.8	17439.7
50°	13485.1	13315.7	12928.7	12523.4	12415.7	11955.5	12477.6	13388.9	15857.4	18781.6
52.5°	13808.0	13624.8	13118.7	12894.3	12862.3	12576.0	13425.6	14433.1	16858.1	19967.8
55°	14151.5	13947.7	13301.9	13100.4	13247.0	13272.2	14549.9	15617.0	17916.0	21124.2
57.5°	14547.6	14288.9	13478.2	13274.4	13622.5	14087.4	15841.4	16844.4	18955.6	22195.8
60°	14920.9	14659.8	13817.1	13551.5	14027.8	15033.1	17323.0	18330.5	20132.6	23150.7
62.5°	14994.1	14778.9	14087.4	14085.1	14577.4	16136.8	19077.0	19830.4	21160.8	24094.1
65°	13725.6	13590.5	13180.6	14064.5	15365.1	17726.0	21030.3	21749.3	22468.3	24918.5
67.5°	10446.4	10464.8	10435.0	12141.0	14728.5	20009.0	23858.3	23803.3	24082.7	25843.6
70°	4776.7	4884.3	5585.0	8381.0	11799.8	20272.3	28534.2	27822.1	26109.2	27041.2
72.5°	2580.7	2663.1	2949.4	4060.0	7094.1	18023.7	32028.6	32534.6	28804.4	27847.3
75°	1893.7	1939.5	2138.7	2580.7	2979.1	13395.8	30776.0	33372.7	29141.0	25967.3
77.5°	1417.4	1438.0	1600.6	2044.9	1525.1	7062.0	24591.0	27638.9	24946.0	21334.8
80°	1028.2	1051.1	1172.4	1534.2	1069.4	2583.0	16885.6	19399.9	17084.8	13599.6
82.5°	709.9	719.0	771.7	1044.2	746.5	1003.0	9580.9	11376.1	9537.4	4772.1
85°	428.2	439.7	462.6	609.1	423.6	476.3	4135.5	4277.5	2850.9	1140.4
87.5°	176.3	187.8	206.1	256.5	167.2	132.8	682.4	856.4	533.5	334.3
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°
7813.1	0°	7813.1	7813.1	7813.1	7813.1	7813.1	7813.1	7813.1	7813.1	7813.1	7813.1
7836.0	2.5°	7824.5	7808.5	7765.0	7705.5	7650.5	7581.8	7552.0	7526.8	7503.9	7460.4
7897.8	5°	7872.6	7829.1	7712.3	7561.2	7389.4	7201.7	7018.5	6892.5	6784.9	6704.8
7968.8	7.5°	7945.9	7863.5	7650.5	7341.4	6947.5	6544.5	6180.4	5921.6	5727.0	5656.0
8069.5	10°	8021.5	7923.0	7552.0	7007.0	6326.9	5706.4	5223.2	4957.6	4801.9	4751.5
8188.6	12.5°	8110.8	7966.5	7398.6	6542.2	5633.1	4953.0	4531.7	4376.0	4295.8	4268.3
8335.2	15°	8241.3	8003.1	7167.3	5960.6	4971.3	4403.4	4130.9	4023.3	3982.1	3979.8
8486.3	17.5°	8339.8	8010.0	6807.8	5337.7	4463.0	4071.4	3847.0	3805.8	3833.3	3874.5
8635.1	20°	8449.7	7948.2	6336.1	4769.8	4105.8	3780.6	3686.7	3714.2	3780.6	3840.1
8832.1	22.5°	8527.5	7836.0	5765.9	4327.9	3796.6	3613.4	3608.9	3666.1	3702.7	3732.5
9063.4	25°	8596.2	7645.9	5161.4	3956.9	3542.4	3512.7	3563.1	3544.7	3519.5	3544.7
9294.6	27.5°	8646.6	7345.9	4621.0	3631.8	3363.8	3444.0	3414.2	3373.0	3370.7	3384.4
9567.1	30°	8630.6	6945.2	4176.7	3322.6	3237.9	3315.7	3244.8	3237.9	3231.0	3237.9
9977.0	32.5°	8630.6	6489.5	3835.6	3109.7	3157.7	3128.0	3121.1	3105.1	3077.6	3075.3
10533.5	35°	8678.7	6033.8	3542.4	2995.2	3091.3	3020.4	3024.9	2986.0	2928.8	2901.3
11270.8	37.5°	8777.1	5667.5	3251.6	2940.2	2974.6	2972.3	2953.9	2887.5	2786.8	2699.8
12191.3	40°	9015.3	5559.8	3052.4	2915.0	2919.6	2947.1	2899.0	2770.8	2541.8	2399.8
13125.6	42.5°	9388.5	5740.7	3008.9	2853.2	2883.0	2910.4	2816.6	2518.9	2356.3	2271.6
14105.7	45°	9862.5	6056.7	3102.8	2763.9	2795.9	2844.0	2564.7	2422.7	2349.4	2351.7
15076.6	47.5°	10462.5	6388.8	3276.8	2686.0	2670.0	2697.5	2397.5	2310.5	2209.7	2234.9
16008.6	50°	11156.3	6725.4	3441.7	2580.7	2530.3	2441.0	2289.9	2207.4	2079.2	2019.7
16908.5	52.5°	11907.4	7050.5	3508.1	2452.5	2379.2	2276.1	2216.6	2115.9	1960.1	1861.7
17758.0	55°	12619.5	7345.9	3434.8	2299.0	2228.1	2147.9	2138.7	2076.9	1909.8	1772.4
18513.7	57.5°	13292.8	7593.2	3251.6	2143.3	2074.6	2026.5	2088.4	2058.6	1847.9	1671.6
19228.1	60°	13862.9	7762.7	2986.0	1985.3	1937.2	1912.1	2005.9	1996.8	1760.9	1564.0
19869.3	62.5°	14316.3	7829.1	2692.9	1834.2	1822.7	1776.9	1891.4	1891.4	1651.0	1458.7
20432.6	65°	14671.3	7765.0	2395.2	1685.4	1708.3	1639.6	1751.8	1738.0	1534.2	1364.8
21080.7	67.5°	14985.0	7554.3	2065.5	1538.8	1591.5	1504.5	1605.2	1573.1	1406.0	1270.9
21641.7	70°	15124.7	7064.3	1689.9	1392.2	1456.4	1371.6	1458.7	1399.1	1261.7	1170.1
21025.7	72.5°	14002.6	5871.3	1330.4	1238.8	1293.8	1225.1	1300.7	1232.0	1106.0	1064.8
18156.5	75°	11584.5	4405.7	1023.6	1071.7	1112.9	1060.2	1110.6	1060.2	945.7	975.5
13411.8	77.5°	8413.0	2974.6	783.1	895.3	913.7	886.2	929.7	872.4	769.4	762.5
6684.2	80°	4183.6	1742.6	613.7	707.6	700.7	682.4	732.8	705.3	618.3	654.9
1804.4	82.5°	1211.3	746.5	446.5	496.9	483.2	487.7	524.4	538.1	806.0	799.2
561.0	85°	380.1	293.1	267.9	277.1	263.3	270.2	309.1	613.7	567.9	332.0
174.0	87.5°	98.5	100.8	66.4	71.0	73.3	87.0	98.5	373.3	178.6	116.8
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>
7813.1
7439.8
6638.4
5532.4
4673.6
4275.2
3989.0
3890.5
3860.7
3748.5
3560.8
3407.3
3263.1
3105.1
2928.8
2729.5
2418.1
2271.6
2363.2
2299.0
2035.7
1859.4
1772.4
1662.5
1557.1
1451.8
1355.6
1261.7
1151.8
1030.4
890.8
728.2
648.0
817.5
359.5
123.7
0.0

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