

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: P956850

Luminaire Tested: **GALN-SB9B-850-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956850
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-SB9B-850-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 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: 47948 lumens
Efficiency: N/A
Efficacy: 145.5 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

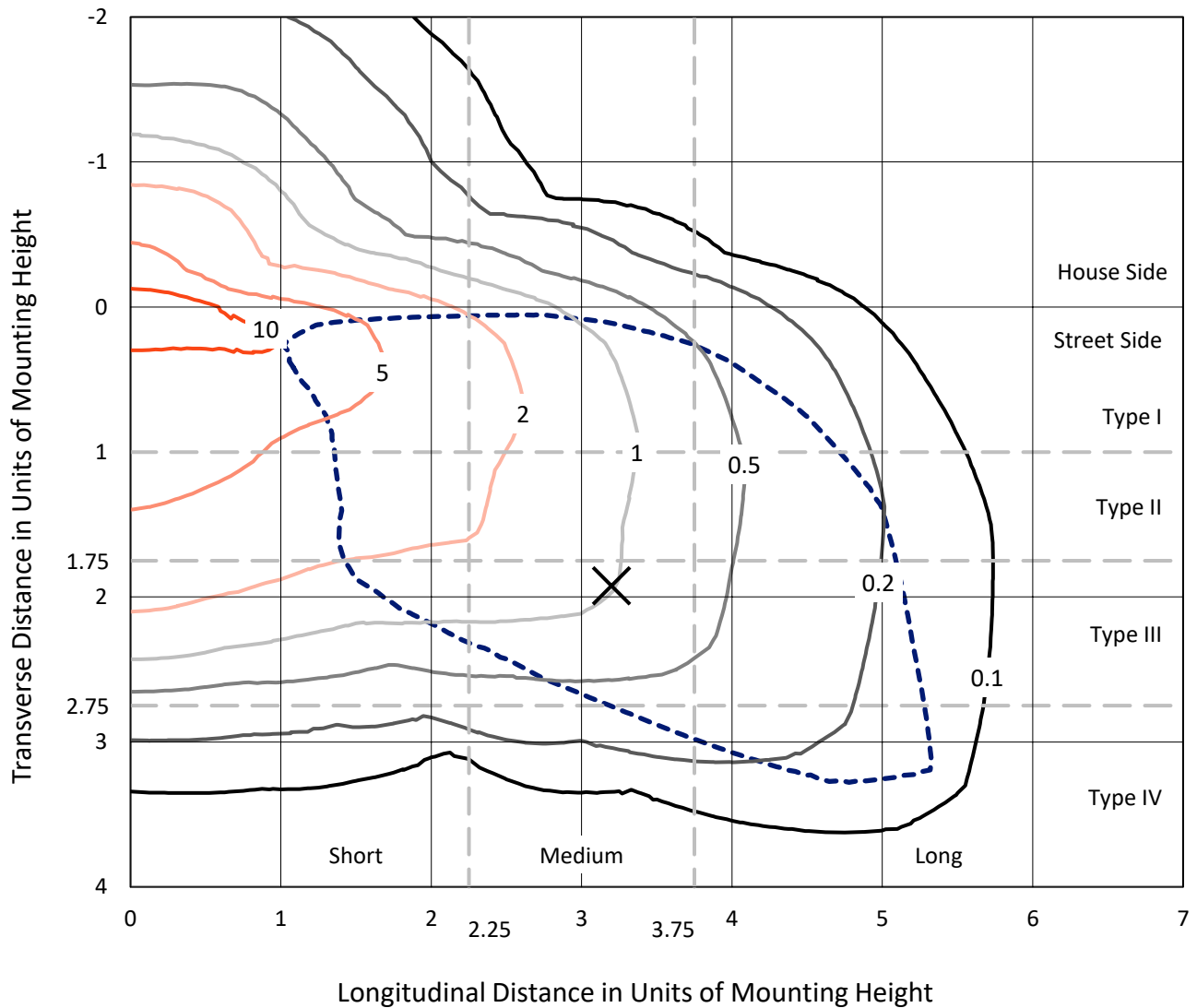
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

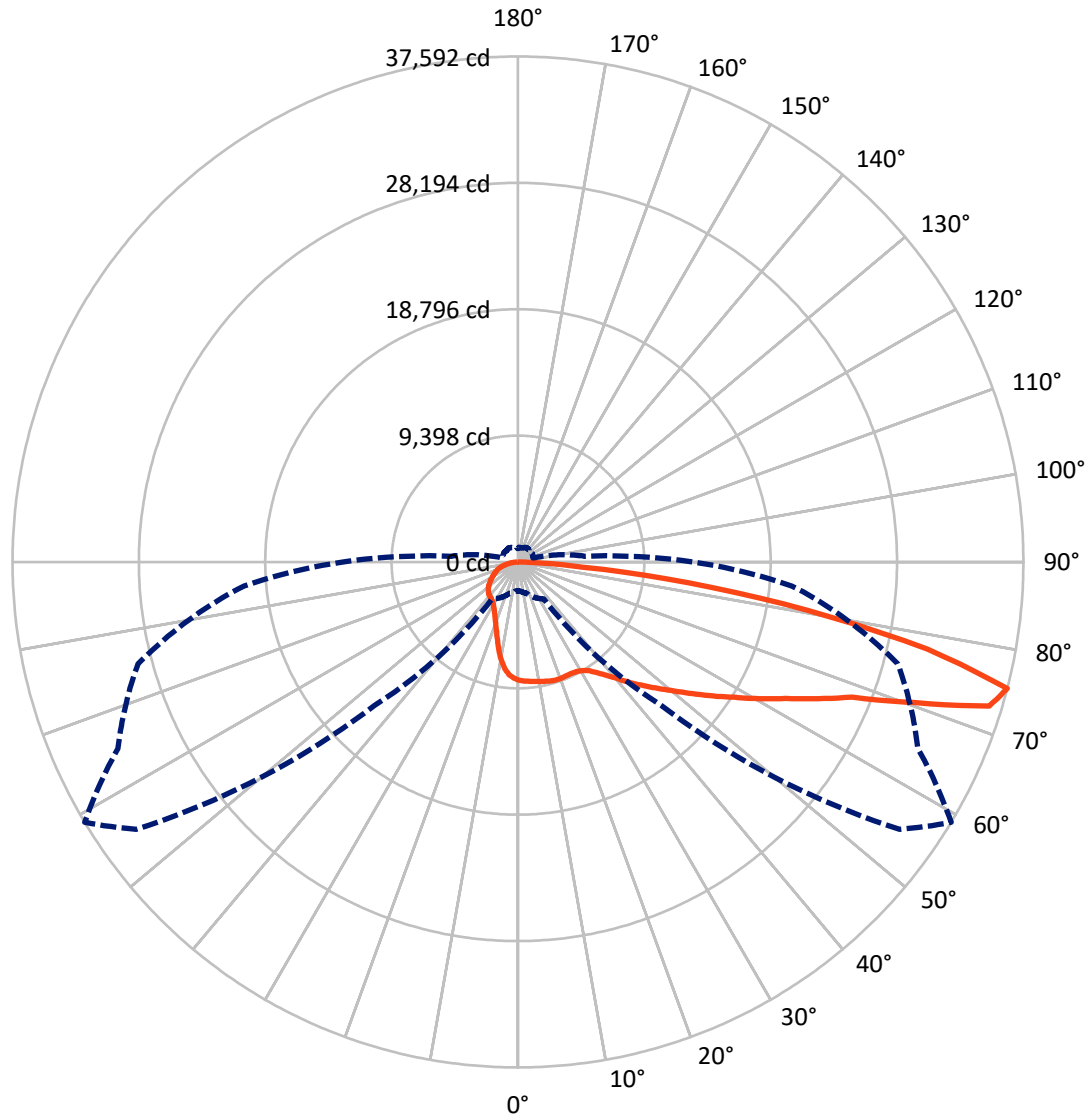
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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	8993.0	0.0	8993.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	38955.0	0.0	38955.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	47948.0	0.0	47948.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	789.1	1.6
10°-20°	2017.1	4.2
20°-30°	3063.8	6.4
30°-40°	4554.2	9.5
40°-50°	6772.9	14.1
50°-60°	9193.4	19.2
60°-70°	11223.6	23.4
70°-80°	8808.1	18.4
80°-90°	1525.8	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°	47948.0	100.0
0°-180°	47948.0	100.0

Coefficient of Utilization



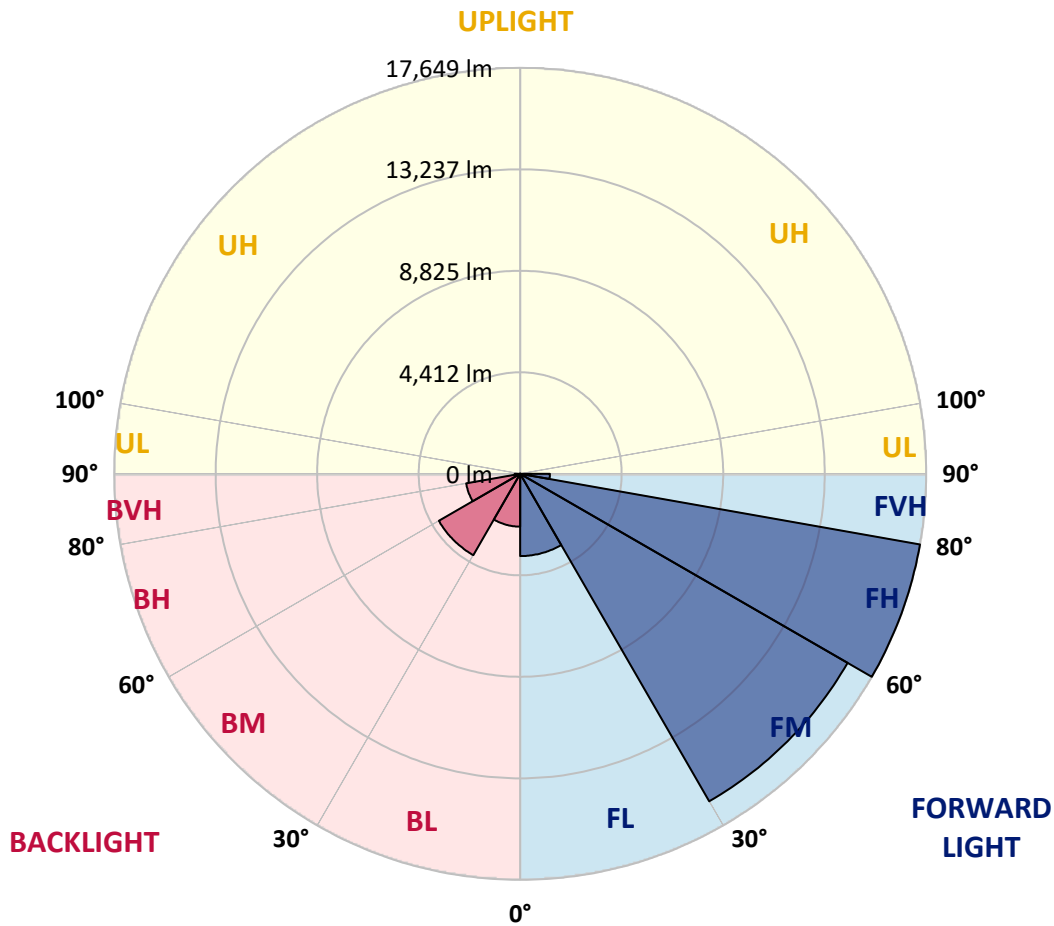
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3575.0	7.5			
FM (30°-60°)	16438.6	34.3			
FH (60°-80°)	17649.2	36.8			G5
FVH (80°-90°)	1292.2	2.7			G5
BL (0°-30°)	2294.9	4.8	B3/2500		
BM (30°-60°)	4081.9	8.5	B3/5000		
BH (60°-80°)	2382.6	5.0	B3/2500		G3/2500
BVH (80°-90°)	233.6	0.5			G3/500
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°	8800.7	8800.7	8800.7	8800.7	8800.7	8800.7	8800.7	8800.7	8800.7	8800.7
2.5°	8875.5	8844.6	8875.5	8862.7	8857.5	8847.2	8849.8	8867.8	8857.5	8870.4
5°	8816.2	8798.2	8829.1	8821.4	8854.9	8860.1	8893.6	8914.2	8927.1	8929.7
7.5°	8718.2	8700.2	8744.0	8780.1	8852.3	8873.0	8942.6	8976.1	8994.2	9025.2
10°	8359.7	8351.9	8460.3	8597.0	8767.2	8873.0	8978.7	9035.5	9063.8	9146.4
12.5°	7725.2	7735.5	7877.3	8140.4	8480.9	8821.4	9020.0	9102.5	9146.4	9249.6
15°	7119.0	7116.4	7271.2	7552.3	8029.5	8594.4	9040.6	9182.5	9257.3	9409.5
17.5°	6768.2	6757.9	6866.2	7080.3	7524.0	8246.2	8989.0	9226.3	9386.3	9577.1
20°	6703.7	6683.1	6739.8	6845.6	7160.3	7864.4	8854.9	9226.3	9489.4	9737.1
22.5°	6938.5	6904.9	6881.7	6868.8	7008.1	7549.8	8702.7	9195.4	9641.6	9966.6
25°	7410.5	7358.9	7240.2	7124.2	7082.9	7407.9	8568.6	9187.7	9868.6	10276.1
27.5°	8174.0	8109.5	7869.6	7591.0	7340.8	7480.1	8509.3	9234.1	10118.8	10603.7
30°	9120.6	9050.9	8749.2	8321.0	7872.2	7748.4	8584.1	9370.8	10438.6	11039.6
32.5°	9969.2	9891.8	9633.9	9198.0	8591.8	8212.7	8821.4	9631.3	10941.6	11645.8
35°	10722.4	10632.1	10399.9	9997.6	9474.0	8865.2	9249.6	10093.0	11656.1	12631.1
37.5°	11460.1	11354.3	11101.5	10675.9	10309.7	9734.5	9840.2	10686.3	12605.3	13827.9
40°	12285.5	12133.3	11826.3	11405.9	11049.9	10753.3	10616.6	11413.6	13570.0	15164.0
42.5°	13085.1	12940.6	12574.3	12215.8	11769.6	11684.5	11516.8	12264.8	14624.9	16631.7
45°	13946.6	13773.7	13330.1	12876.1	12595.0	12303.5	12388.6	13116.0	15659.2	18127.7
47.5°	14753.9	14560.4	14036.8	13531.3	13376.5	12824.5	13188.2	14052.3	16734.8	19644.3
50°	15189.8	14998.9	14563.0	14106.5	13985.2	13466.8	14054.9	15081.5	17862.0	21155.8
52.5°	15553.5	15347.1	14777.1	14524.3	14488.2	14165.8	15122.7	16257.7	18989.2	22491.9
55°	15940.4	15710.8	14983.5	14756.5	14921.6	14949.9	16389.2	17591.2	20180.8	23794.5
57.5°	16386.6	16095.2	15182.1	14952.5	15344.6	15868.2	17844.0	18973.7	21351.9	25001.7
60°	16807.1	16513.0	15563.8	15264.6	15801.1	16933.4	19512.8	20647.7	22677.7	26077.2
62.5°	16889.6	16647.1	15868.2	15865.6	16420.2	18176.7	21488.6	22337.2	23835.8	27139.9
65°	15460.6	15308.5	14846.7	15842.4	17307.5	19966.8	23688.8	24498.7	25308.6	28068.5
67.5°	11767.0	11787.6	11754.1	13675.7	16590.4	22538.4	26874.3	26812.4	27127.0	29110.6
70°	5380.5	5501.8	6291.0	9440.4	13291.4	22835.0	32141.3	31339.1	29409.8	30459.6
72.5°	2906.9	2999.8	3322.2	4573.2	7990.8	20302.1	36077.4	36647.4	32445.7	31367.5
75°	2133.1	2184.7	2409.1	2906.9	3355.7	15089.2	34666.5	37591.5	32824.8	29249.9
77.5°	1596.6	1619.8	1803.0	2303.4	1717.8	7954.7	27699.7	31132.8	28099.5	24031.8
80°	1158.1	1183.9	1320.6	1728.2	1204.6	2909.5	19020.1	21852.3	19244.5	15318.8
82.5°	799.6	809.9	869.2	1176.2	840.9	1129.8	10792.0	12814.2	10743.0	5375.4
85°	482.3	495.2	521.0	686.1	477.2	536.5	4658.3	4818.2	3211.3	1284.5
87.5°	198.6	211.5	232.1	288.9	188.3	149.6	768.6	964.7	601.0	376.6
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°
8800.7	0°	8800.7	8800.7	8800.7	8800.7	8800.7	8800.7	8800.7	8800.7	8800.7	8800.7
8826.5	2.5°	8813.6	8795.6	8746.6	8679.5	8617.6	8540.2	8506.7	8478.3	8452.5	8403.5
8896.2	5°	8867.8	8818.8	8687.3	8517.0	8323.6	8112.1	7905.7	7763.8	7642.6	7552.3
8976.1	7.5°	8950.4	8857.5	8617.6	8269.4	7825.8	7371.8	6961.7	6670.2	6451.0	6371.0
9089.6	10°	9035.5	8924.6	8506.7	7892.8	7126.7	6427.7	5883.5	5584.3	5408.9	5352.2
9223.8	12.5°	9136.1	8973.6	8333.9	7369.2	6345.2	5579.1	5104.5	4929.1	4838.9	4807.9
9388.8	15°	9283.1	9014.8	8073.4	6714.1	5599.8	4960.1	4653.2	4531.9	4485.5	4482.9
9559.1	17.5°	9394.0	9022.6	7668.4	6012.5	5027.2	4586.1	4333.3	4286.9	4317.8	4364.3
9726.7	20°	9517.8	8952.9	7137.1	5372.8	4624.8	4258.5	4152.8	4183.7	4258.5	4325.6
9948.6	22.5°	9605.5	8826.5	6494.8	4875.0	4276.6	4070.2	4065.1	4129.5	4170.8	4204.3
10209.1	25°	9682.9	8612.5	5813.9	4457.1	3990.3	3956.7	4013.5	3992.8	3964.5	3992.8
10469.6	27.5°	9739.6	8274.6	5205.1	4090.9	3789.1	3879.3	3845.8	3799.4	3796.8	3812.3
10776.5	30°	9721.6	7823.2	4704.7	3742.6	3647.2	3734.9	3654.9	3647.2	3639.5	3647.2
11238.2	32.5°	9721.6	7309.9	4320.4	3502.8	3556.9	3523.4	3515.7	3497.6	3466.6	3464.1
11865.0	35°	9775.7	6796.6	3990.3	3373.8	3482.1	3402.2	3407.3	3363.5	3299.0	3268.0
12695.6	37.5°	9886.7	6383.9	3662.7	3311.9	3350.6	3348.0	3327.4	3252.6	3139.1	3041.1
13732.5	40°	10154.9	6262.7	3438.3	3283.5	3288.7	3319.6	3265.5	3121.0	2863.1	2703.2
14784.8	42.5°	10575.3	6466.4	3389.3	3213.9	3247.4	3278.4	3172.6	2837.3	2654.2	2558.7
15888.8	45°	11109.3	6822.4	3495.0	3113.3	3149.4	3203.6	2888.9	2729.0	2646.4	2649.0
16982.5	47.5°	11785.1	7196.4	3691.1	3025.6	3007.5	3038.5	2700.6	2602.6	2489.1	2517.4
18032.2	50°	12566.6	7575.6	3876.8	2906.9	2850.2	2749.6	2579.4	2486.5	2342.1	2275.0
19045.9	52.5°	13412.6	7941.8	3951.6	2762.5	2679.9	2563.9	2496.8	2383.3	2207.9	2097.0
20002.9	55°	14214.8	8274.6	3869.0	2589.7	2509.7	2419.4	2409.1	2339.5	2151.2	1996.4
20854.1	57.5°	14973.1	8553.1	3662.7	2414.3	2336.9	2282.7	2352.4	2318.8	2081.5	1882.9
21658.8	60°	15615.4	8744.0	3363.5	2236.3	2182.1	2153.8	2259.5	2249.2	1983.5	1761.7
22381.0	62.5°	16126.1	8818.8	3033.3	2066.1	2053.2	2001.6	2130.5	2130.5	1859.7	1643.0
23015.6	65°	16525.9	8746.6	2698.0	1898.4	1924.2	1846.8	1973.2	1957.7	1728.2	1537.3
23745.5	67.5°	16879.3	8509.3	2326.6	1733.3	1792.6	1694.6	1808.1	1772.0	1583.7	1431.5
24377.5	70°	17036.6	7957.3	1903.6	1568.2	1640.5	1545.0	1643.0	1576.0	1421.2	1318.0
23683.6	72.5°	15772.7	6613.5	1498.6	1395.4	1457.3	1380.0	1465.1	1387.7	1245.8	1199.4
20451.7	75°	13048.9	4962.7	1153.0	1207.1	1253.6	1194.2	1251.0	1194.2	1065.3	1098.8
15107.3	77.5°	9476.5	3350.6	882.1	1008.5	1029.2	998.2	1047.2	982.7	866.7	858.9
7529.1	80°	4712.5	1962.9	691.3	797.0	789.3	768.6	825.4	794.4	696.4	737.7
2032.5	82.5°	1364.5	840.9	503.0	559.7	544.2	549.4	590.7	606.1	907.9	900.2
631.9	85°	428.2	330.2	301.8	312.1	296.6	304.4	348.2	691.3	639.7	374.0
196.0	87.5°	110.9	113.5	74.8	80.0	82.5	98.0	110.9	420.4	201.2	131.5
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>
8800.7
8380.3
7477.5
6231.7
5264.5
4815.6
4493.2
4382.3
4348.8
4222.4
4010.9
3838.1
3675.6
3497.6
3299.0
3074.6
2723.8
2558.7
2661.9
2589.7
2293.0
2094.4
1996.4
1872.6
1754.0
1635.3
1527.0
1421.2
1297.4
1160.7
1003.4
820.2
730.0
920.8
405.0
139.3
0.0

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