

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: P944075

Luminaire Tested: **GALN-SB8D-835-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944075  
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-SB8D-835-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 75624 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B5 - U0 - G5

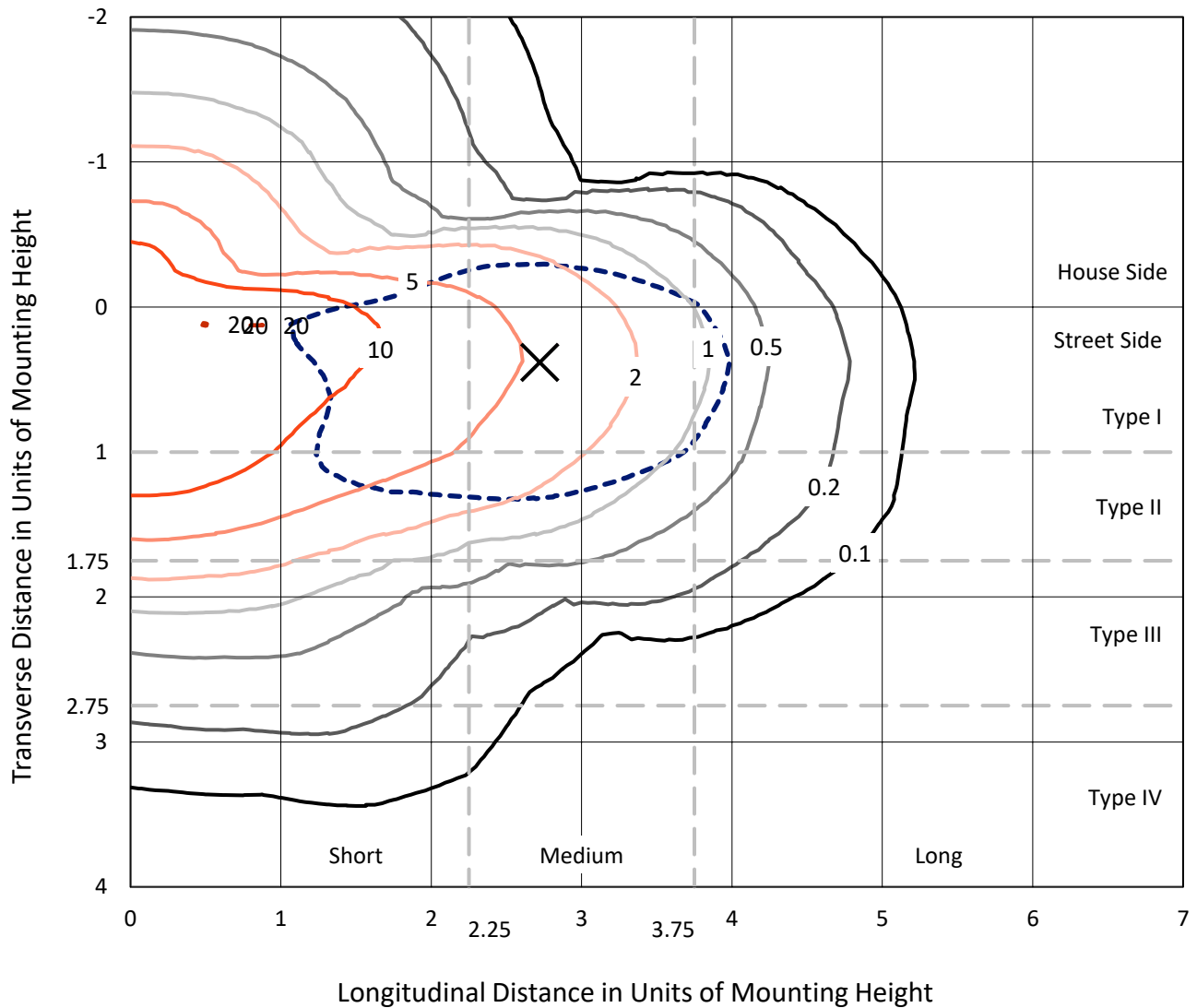
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

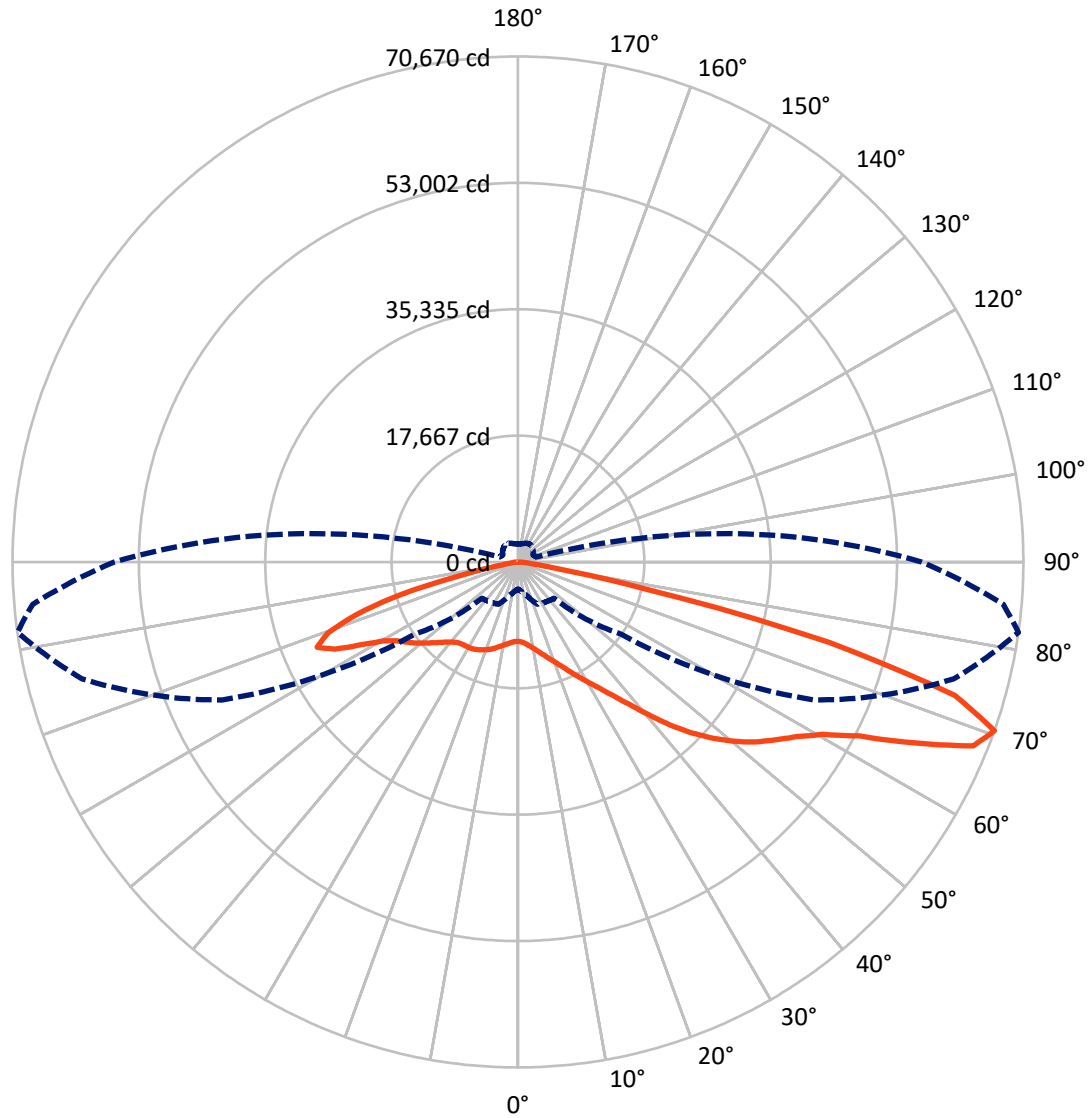
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 fc  
 Type II - Medium - N/A

REPORT NUMBER: P944075  
CATALOG NUMBER: GALN-SB8D-835-U-T2

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GALN-SB8D-835-U-T2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18643.2	0.0	18643.2
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	56980.8	0.0	56980.8
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	75624.0	0.0	75624.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1046.8	1.4
10°-20°	3007.7	4.0
20°-30°	5031.5	6.7
30°-40°	7860.5	10.4
40°-50°	12518.8	16.6
50°-60°	17421.4	23.0
60°-70°	18223.6	24.1
70°-80°	9524.6	12.6
80°-90°	989.0	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°	75624.0	100.0
0°-180°	75624.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P944075

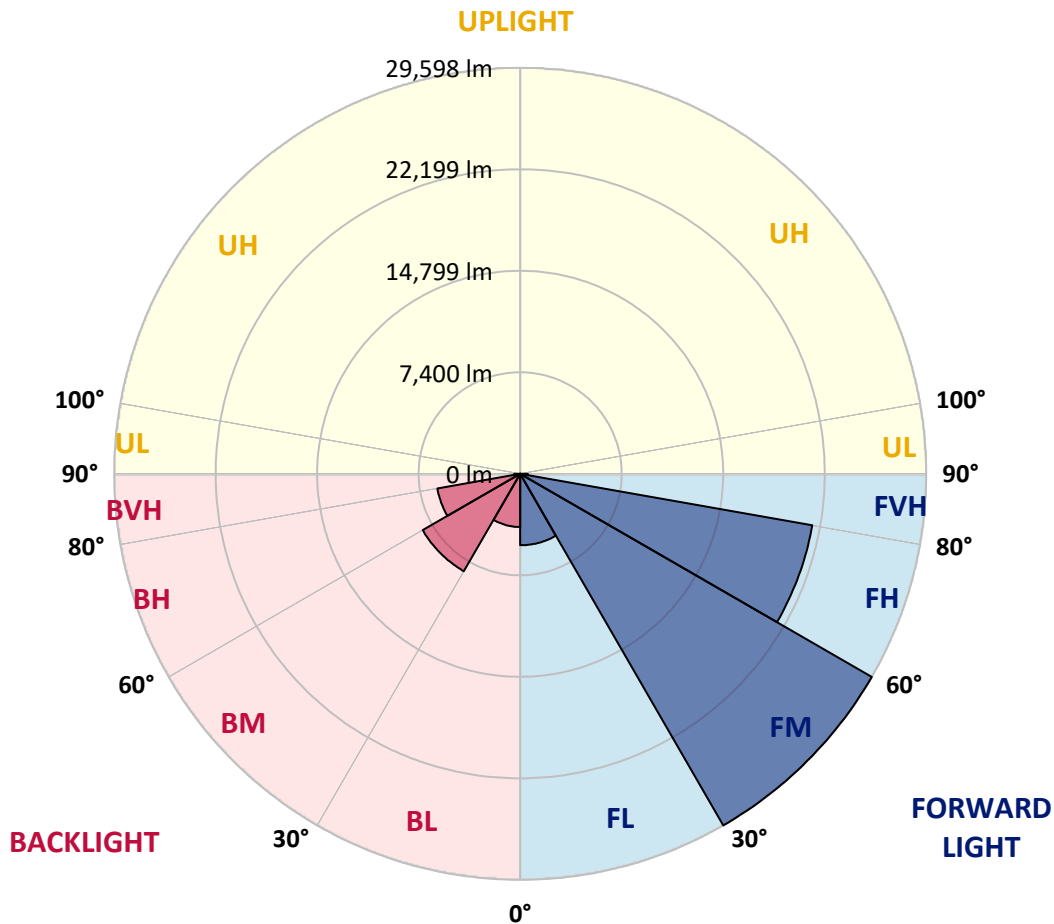
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5207.6	6.9			
FM (30°-60°)	29598.5	39.1			
FH (60°-80°)	21621.1	28.6			G5
FVH (80°-90°)	553.7	0.7			G4/750
BL (0°-30°)	3878.5	5.1	B4/5000		
BM (30°-60°)	8202.3	10.8	B4/8500		
BH (60°-80°)	6127.1	8.1	B5		G5
BVH (80°-90°)	435.4	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type II Medium



REPORT NUMBER: P944075  
 CATALOG NUMBER: GALN-SB8D-835-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	11087.4	11087.4	11087.4	11087.4	11087.4	11087.4	11087.4	11087.4	11087.4	11087.4
2.5°	11352.3	11416.5	11396.4	11376.3	11376.3	11348.3	11344.2	11304.1	11272.0	11219.8
5°	11496.7	11564.9	11556.9	11573.0	11625.1	11637.2	11649.2	11625.1	11560.9	11496.7
7.5°	11368.3	11444.6	11468.6	11564.9	11725.5	11869.9	11978.3	12022.4	11962.2	11869.9
10°	10934.9	11019.2	11103.5	11332.2	11617.1	11958.2	12247.1	12419.7	12407.6	12319.4
12.5°	10056.1	10144.4	10325.0	10770.4	11292.1	11894.0	12431.7	12792.9	12917.3	12853.1
15°	9353.9	9430.1	9566.6	10024.0	10702.2	11617.1	12499.9	13202.2	13519.2	13483.1
17.5°	9333.8	9365.9	9450.2	9666.9	10188.6	11183.7	12427.7	13603.5	14209.4	14205.4
20°	9686.9	9699.0	9747.1	9791.3	10088.2	10854.7	12243.1	13936.5	14983.9	14983.9
22.5°	10176.5	10168.5	10216.6	10176.5	10321.0	10826.6	12126.7	14229.5	15846.6	15910.8
25°	10910.9	10870.7	10858.7	10766.4	10794.5	11087.4	12255.2	14562.5	16869.9	17002.3
27.5°	11890.0	11825.8	11781.6	11569.0	11496.7	11625.1	12648.4	14963.8	18009.5	18238.3
30°	13166.1	13049.7	12985.5	12616.3	12355.5	12375.5	13242.3	15497.5	19201.3	19570.5
32.5°	14907.6	14727.1	14554.5	13948.6	13471.0	13314.5	14008.8	16235.9	20493.5	21083.4
35°	16857.9	16713.4	16528.8	15593.8	14859.5	14498.3	15044.1	17267.2	22006.3	22941.3
37.5°	18735.9	18611.5	18699.7	17439.7	16492.7	15967.0	16400.4	18651.6	23872.3	25252.7
40°	20678.1	20581.8	20593.8	19390.0	18286.4	17696.5	18045.7	20389.1	26011.1	28001.5
42.5°	22788.8	22716.6	22475.8	21408.4	20168.4	19618.7	19939.7	22395.6	28306.4	31131.5
45°	25152.4	25108.2	24883.5	23659.6	22239.1	21621.1	22054.5	24610.6	30613.8	34076.9
47.5°	27194.9	27231.0	27202.9	26171.6	24698.9	23792.0	24309.7	26922.0	32760.7	36845.7
50°	28178.0	28366.6	28643.5	28322.5	27407.6	26484.6	26584.9	29153.1	34807.2	39442.0
52.5°	27664.4	28021.5	28775.9	29289.6	29642.7	29450.1	29181.2	31368.2	36733.4	41785.5
55°	25750.3	26251.9	27503.9	28743.8	30545.6	31946.1	32299.2	33824.1	38611.4	43848.1
57.5°	22263.1	23077.7	24201.3	26709.3	29743.0	33153.9	35934.8	37231.0	40601.7	46051.1
60°	16284.0	17375.5	18772.0	22503.9	26934.1	32507.9	39028.7	42463.7	43430.8	48904.2
62.5°	10421.3	11095.4	12379.6	15894.8	20987.1	29197.3	39975.7	49004.6	48226.1	53583.2
65°	7134.8	7568.2	8743.9	10718.2	13567.3	21733.4	37439.6	53908.2	55842.4	60998.9
67.5°	5184.6	5513.6	6516.8	8246.3	8840.2	12861.1	29052.8	53683.5	63246.1	68639.3
70°	3780.1	4012.8	4855.5	6516.8	6801.7	7154.9	17600.2	45633.8	63085.6	70669.8
72.5°	2800.9	2961.5	3527.3	5056.2	5505.6	4831.4	8711.8	33166.0	54209.2	63920.2
75°	2026.5	2146.9	2564.2	3868.4	4406.1	3679.8	4345.9	19381.9	37812.8	44963.7
77.5°	1548.9	1641.2	1914.1	2833.1	3527.3	2760.8	2696.6	8916.5	17929.3	18017.6
80°	1244.0	1304.2	1452.6	1994.4	2704.6	2066.6	1757.6	3599.5	5666.1	4795.3
82.5°	914.9	1015.2	1227.9	1400.5	1934.2	1424.6	1071.4	1817.8	2154.9	1853.9
85°	521.7	589.9	742.4	1003.2	1235.9	870.8	614.0	806.6	1003.2	822.6
87.5°	184.6	240.8	260.8	393.3	537.7	361.2	236.8	232.7	329.1	244.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944075  
 CATALOG NUMBER: GALN-SB8D-835-U-T2

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
11087.4	0°	11087.4	11087.4	11087.4	11087.4	11087.4	11087.4	11087.4	11087.4	11087.4	11087.4
11207.8	2.5°	11167.7	11147.6	11067.4	10959.0	10846.7	10738.3	10702.2	10625.9	10573.8	10545.7
11468.6	5°	11392.4	11328.2	11139.6	10898.8	10646.0	10373.1	10180.5	10004.0	9875.6	9755.2
11825.8	7.5°	11713.4	11601.1	11276.0	10854.7	10405.2	9951.8	9614.7	9357.9	9185.3	9073.0
12243.1	10°	12086.6	11914.1	11416.5	10786.5	10092.2	9442.2	9044.9	8824.2	8715.8	8655.7
12720.6	12.5°	12516.0	12271.2	11560.9	10630.0	9614.7	8872.3	8599.5	8535.3	8539.3	8543.3
13322.6	15°	13045.7	12704.6	11677.3	10288.9	8992.7	8434.9	8386.8	8491.1	8599.5	8651.6
14004.7	17.5°	13643.6	13162.1	11697.4	9727.1	8382.8	8154.1	8306.5	8531.3	8695.8	8768.0
14767.2	20°	14285.6	13627.5	11552.9	8932.5	7881.2	7925.3	8198.2	8487.1	8667.7	8760.0
15638.0	22.5°	15020.0	14125.1	11207.8	8097.9	7471.9	7676.5	7997.6	8278.4	8467.1	8559.3
16661.2	25°	15858.7	14682.9	10666.1	7395.6	7118.7	7395.6	7716.7	7949.4	8101.9	8186.2
17804.9	27.5°	16789.6	15264.8	9943.8	6837.8	6809.8	7106.7	7371.6	7552.1	7632.4	7696.6
19020.8	30°	17724.6	15794.5	9069.0	6416.5	6540.9	6821.8	7010.4	7090.7	7114.7	7126.8
20377.1	32.5°	18735.9	16251.9	8150.0	6067.4	6284.1	6544.9	6657.3	6693.4	6581.0	6504.8
22022.4	35°	19959.8	16741.5	7251.2	5790.5	6031.3	6256.0	6292.1	6260.0	6127.6	5971.1
24085.0	37.5°	21472.6	17351.4	6532.9	5593.9	5794.5	5943.0	5898.8	5890.8	5902.9	5718.3
26564.9	40°	23326.5	18146.0	6007.2	5441.4	5601.9	5634.0	5509.6	5577.8	5638.0	5357.1
29285.6	42.5°	25385.1	19105.0	5674.1	5337.1	5441.4	5365.1	5172.5	5248.8	5240.7	4871.6
32018.3	45°	27483.8	20148.4	5557.8	5260.8	5292.9	5140.4	4927.7	4947.8	4779.3	4446.2
34638.7	47.5°	29570.5	21268.0	5630.0	5196.6	5108.3	4935.8	4771.2	4683.0	4434.2	4185.4
37150.7	50°	31617.0	22443.7	5894.8	5068.2	4855.5	4755.2	4634.8	4478.3	4213.5	4000.8
39526.3	52.5°	33515.1	23627.5	6191.8	4855.5	4538.5	4598.7	4522.4	4341.9	4081.0	3864.3
41773.5	55°	35312.8	24811.3	6308.2	4562.6	4241.6	4462.3	4418.1	4085.1	3772.1	3595.5
44125.0	57.5°	37271.1	26235.8	6179.7	4189.4	4000.8	4305.8	4137.2	3768.0	3587.5	3455.0
47186.8	60°	39983.7	28471.0	5902.9	3727.9	3772.1	4073.0	3784.1	3631.6	3435.0	3286.5
51777.4	62.5°	44490.1	32640.3	5457.4	3270.4	3503.2	3727.9	3615.6	3463.1	3262.4	3118.0
59626.5	65°	51151.4	38434.8	4618.8	2913.3	3202.2	3390.8	3435.0	3282.5	3073.8	2921.3
66504.5	67.5°	56769.4	42070.4	3495.2	2616.4	2893.2	3118.0	3242.4	3093.9	2873.2	2724.7
68113.6	70°	56460.4	39430.0	2668.5	2323.4	2620.4	2849.1	3009.6	2893.2	2656.5	2516.0
61869.7	72.5°	50148.2	32985.4	2158.9	2026.5	2343.5	2568.2	2760.8	2672.5	2431.8	2295.3
45324.8	75°	36841.7	23414.8	1725.5	1725.5	1998.4	2275.3	2487.9	2431.8	2211.1	2114.8
19028.8	77.5°	15529.6	9823.4	1352.3	1432.6	1661.3	1954.2	2219.1	2239.2	2046.5	2166.9
5032.1	80°	4129.2	2708.7	1031.3	1127.6	1304.2	1613.2	1930.2	1922.1	1713.5	1601.1
1870.0	82.5°	1573.0	1067.4	734.3	794.5	943.0	1235.9	1528.9	1577.0	1368.4	1183.8
734.3	85°	605.9	457.5	453.4	477.5	549.8	818.6	1155.7	1195.8	1031.3	874.8
204.7	87.5°	156.5	136.4	168.5	160.5	252.8	437.4	662.1	686.2	630.0	365.2
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>
11087.4
10577.8
9803.3
9097.1
8671.7
8551.3
8647.6
8784.1
8784.1
8583.4
8210.2
7720.7
7154.9
6528.9
5979.1
5730.3
5365.1
4867.6
4458.2
4185.4
3984.7
3868.4
3579.4
3443.0
3278.5
3118.0
2929.4
2728.7
2528.1
2295.3
2086.7
1966.3
1488.8
1183.8
902.9
521.7
0.0

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