

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: P942695

Luminaire Tested: **GALN-SB6D-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942695
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-SB6D-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53168 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

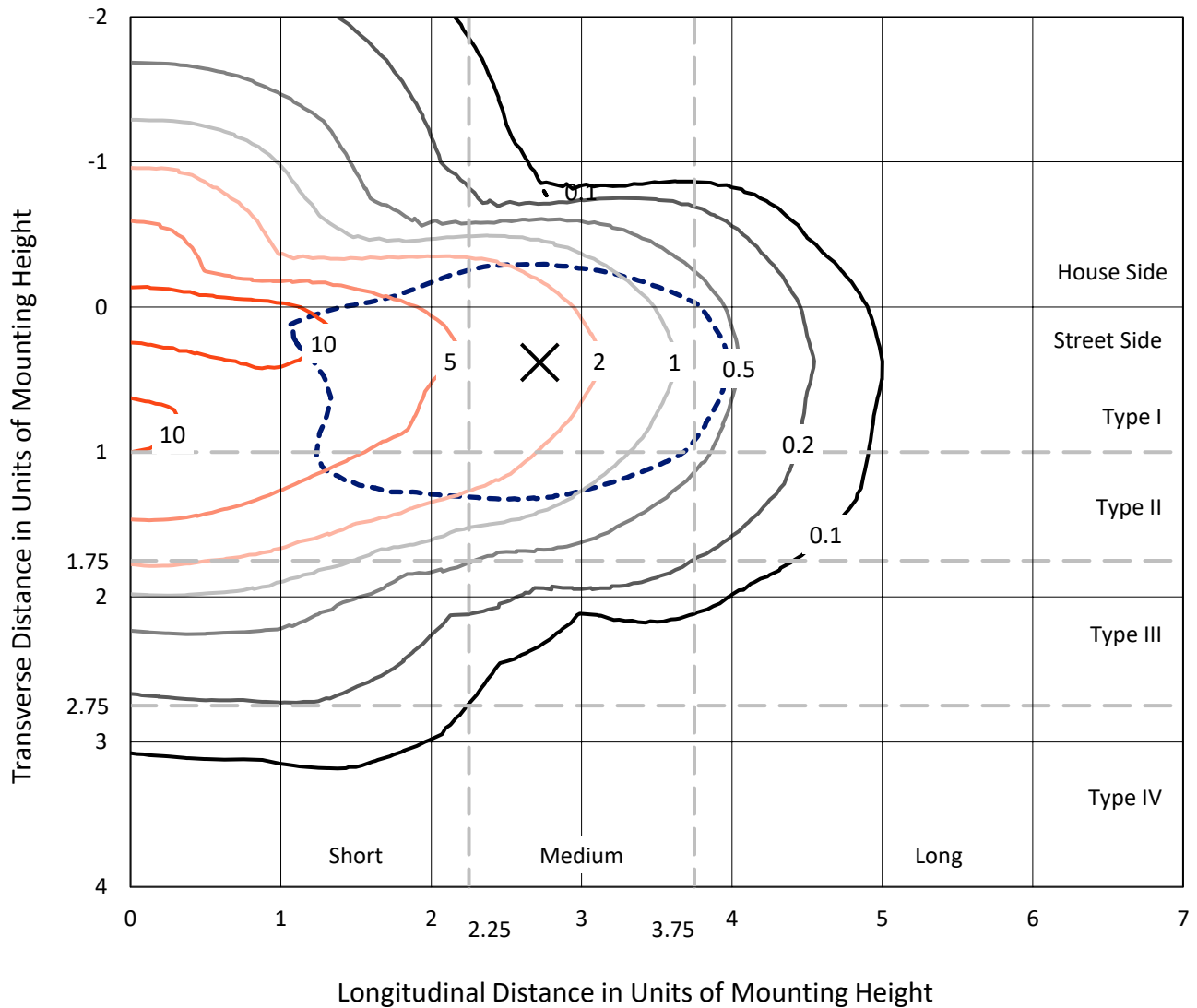
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

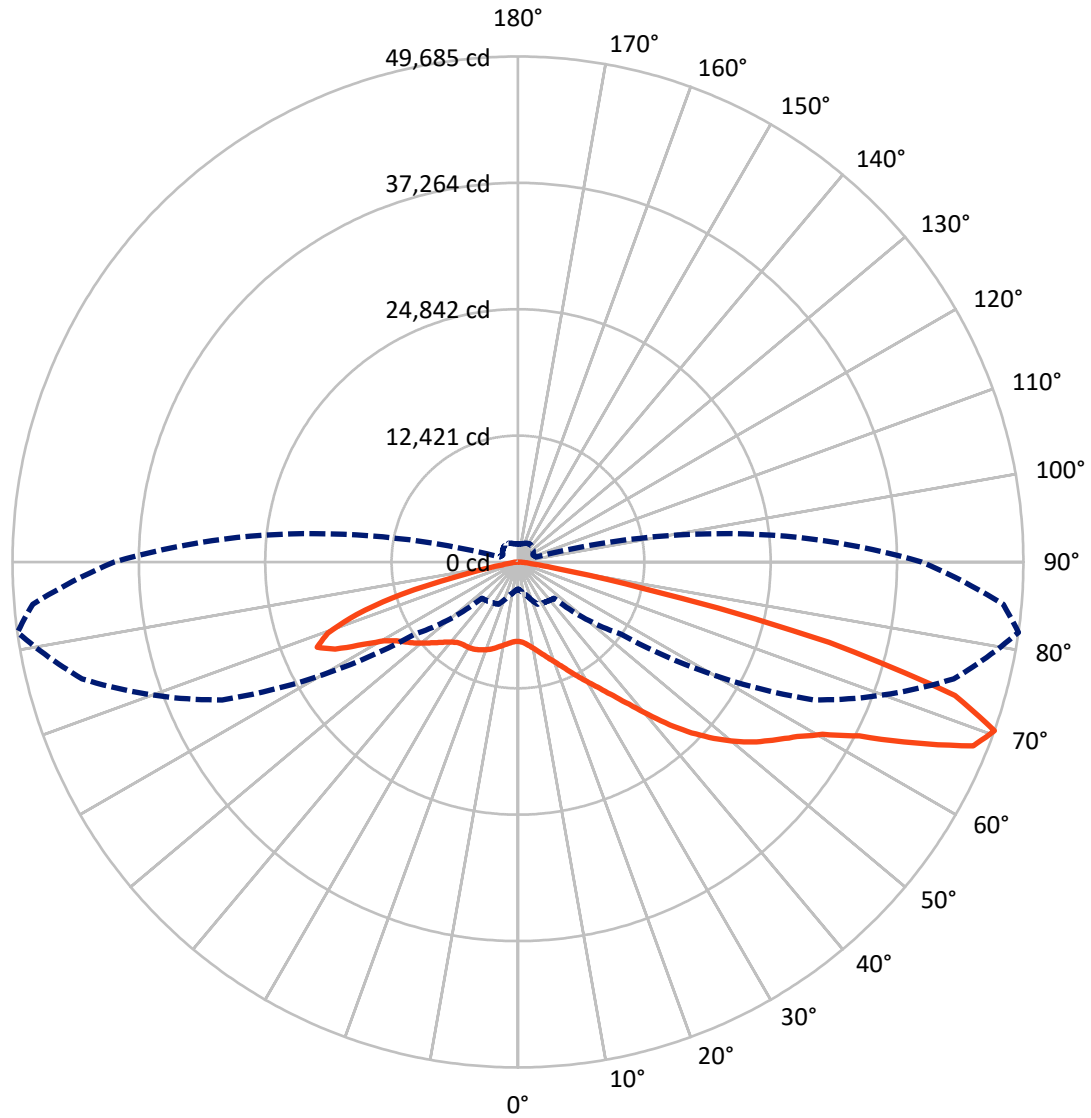
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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
House Side	Lumens	13107.2	0.0	13107.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	40060.8	0.0	40060.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	53168.0	0.0	53168.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	736.0	1.4
10°-20°	2114.6	4.0
20°-30°	3537.4	6.7
30°-40°	5526.4	10.4
40°-50°	8801.4	16.6
50°-60°	12248.3	23.0
60°-70°	12812.2	24.1
70°-80°	6696.4	12.6
80°-90°	695.3	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°	53168.0	100.0
0°-180°	53168.0	100.0

Coefficient of Utilization



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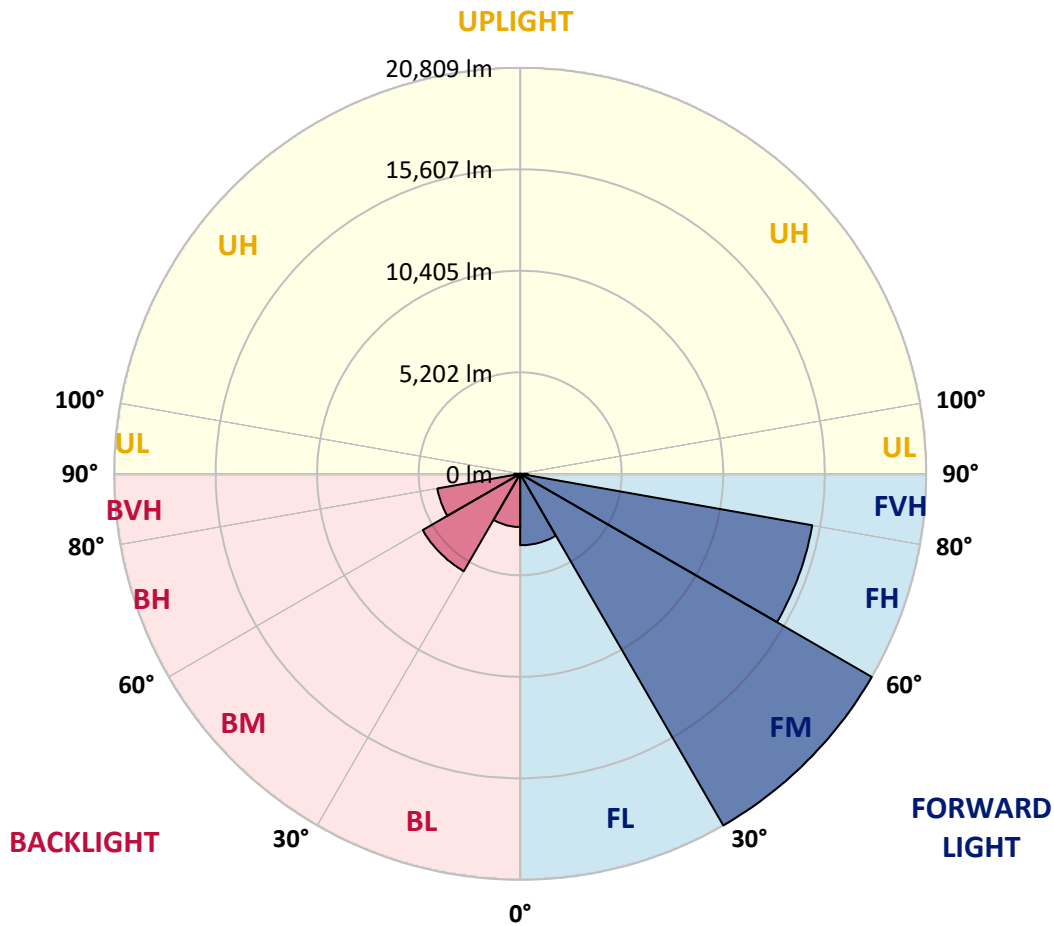
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3661.2	6.9			
FM (30°-60°)	20809.4	39.1			
FH (60°-80°)	15200.9	28.6			G5
FVH (80°-90°)	389.3	0.7			G3/500
BL (0°-30°)	2726.8	5.1	B4/5000		
BM (30°-60°)	5766.7	10.8	B4/8500		
BH (60°-80°)	4307.7	8.1	B4/5000		G4/5000
BVH (80°-90°)	306.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	7795.1	7795.1	7795.1	7795.1	7795.1	7795.1	7795.1	7795.1	7795.1	7795.1
2.5°	7981.3	8026.4	8012.3	7998.2	7998.2	7978.5	7975.7	7947.4	7924.9	7888.2
5°	8082.9	8130.8	8125.2	8136.5	8173.1	8181.6	8190.1	8173.1	8128.0	8082.9
7.5°	7992.6	8046.2	8063.1	8130.8	8243.7	8345.2	8421.4	8452.4	8410.1	8345.2
10°	7687.9	7747.1	7806.4	7967.2	8167.5	8407.3	8610.4	8731.7	8723.3	8661.2
12.5°	7070.0	7132.1	7259.1	7572.2	7939.0	8362.2	8740.2	8994.1	9081.6	9036.4
15°	6576.3	6629.9	6725.8	7047.5	7524.3	8167.5	8788.2	9281.9	9504.8	9479.4
17.5°	6562.2	6584.8	6644.0	6796.4	7163.1	7862.8	8737.4	9564.0	9990.0	9987.2
20°	6810.5	6818.9	6852.8	6883.8	7092.6	7631.5	8607.6	9798.2	10534.5	10534.5
22.5°	7154.7	7149.0	7182.9	7154.7	7256.2	7611.7	8525.8	10004.1	11141.1	11186.2
25°	7671.0	7642.7	7634.3	7569.4	7589.1	7795.1	8616.1	10238.3	11860.5	11953.6
27.5°	8359.3	8314.2	8283.2	8133.6	8082.9	8173.1	8892.6	10520.4	12661.7	12822.5
30°	9256.5	9174.7	9129.5	8870.0	8686.6	8700.7	9310.1	10895.6	13499.6	13759.2
32.5°	10480.9	10354.0	10232.6	9806.6	9470.9	9360.9	9849.0	11414.7	14408.1	14822.8
35°	11852.0	11750.5	11620.7	10963.3	10447.1	10193.1	10576.8	12139.8	15471.7	16129.0
37.5°	13172.4	13084.9	13147.0	12261.1	11595.3	11225.7	11530.4	13113.1	16783.6	17754.1
40°	14537.9	14470.2	14478.6	13632.2	12856.4	12441.7	12687.1	14334.7	18287.3	19686.6
42.5°	16021.8	15971.1	15801.8	15051.3	14179.6	13793.1	14018.8	15745.4	19901.0	21887.2
45°	17683.5	17652.5	17494.5	16634.0	15635.3	15200.9	15505.6	17302.7	21523.3	23958.0
47.5°	19119.6	19145.0	19125.2	18400.1	17364.7	16727.1	17091.1	18927.7	23032.6	25904.7
50°	19810.8	19943.4	20138.0	19912.3	19269.1	18620.2	18690.7	20496.3	24471.5	27730.0
52.5°	19449.6	19700.7	20231.1	20592.3	20840.5	20705.1	20516.1	22053.7	25825.7	29377.6
55°	18103.9	18456.6	19336.8	20208.6	21475.3	22459.9	22708.2	23780.3	27146.0	30827.7
57.5°	15652.3	16225.0	17014.9	18778.2	20911.1	23309.1	25264.2	26175.5	28545.3	32376.6
60°	11448.6	12216.0	13197.8	15821.5	18936.2	22854.9	27439.4	29854.4	30534.3	34382.5
62.5°	7326.8	7800.7	8703.5	11174.9	14755.1	20527.4	28105.2	34453.0	33905.7	37672.1
65°	5016.2	5320.9	6147.5	7535.5	9538.6	15279.9	26322.2	37900.6	39260.4	42885.7
67.5°	3645.0	3876.4	4581.7	5797.7	6215.2	9042.1	20425.8	37742.6	44465.6	48257.4
70°	2657.6	2821.2	3413.7	4581.7	4782.0	5030.3	12374.0	32083.2	44352.8	49684.9
72.5°	1969.2	2082.1	2479.9	3554.8	3870.7	3396.8	6124.9	23317.6	38112.2	44939.6
75°	1424.7	1509.4	1802.8	2719.7	3097.7	2587.1	3055.4	13626.6	26584.6	31612.0
77.5°	1089.0	1153.9	1345.7	1991.8	2479.9	1941.0	1895.9	6268.8	12605.3	12667.4
80°	874.6	916.9	1021.3	1402.2	1901.5	1452.9	1235.7	2530.7	3983.6	3371.4
82.5°	643.2	713.8	863.3	984.6	1359.8	1001.5	753.3	1278.0	1515.0	1303.4
85°	366.8	414.7	521.9	705.3	868.9	612.2	431.7	567.1	705.3	578.4
87.5°	129.8	169.3	183.4	276.5	378.0	253.9	166.5	163.6	231.3	172.1
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°
7795.1	0°	7795.1	7795.1	7795.1	7795.1	7795.1	7795.1	7795.1	7795.1	7795.1	7795.1
7879.7	2.5°	7851.5	7837.4	7781.0	7704.8	7625.8	7549.6	7524.3	7470.7	7434.0	7414.2
8063.1	5°	8009.5	7964.4	7831.8	7662.5	7484.8	7292.9	7157.5	7033.4	6943.1	6858.4
8314.2	7.5°	8235.2	8156.2	7927.7	7631.5	7315.5	6996.7	6759.7	6579.1	6457.8	6378.8
8607.6	10°	8497.6	8376.3	8026.4	7583.5	7095.4	6638.4	6359.1	6203.9	6127.7	6085.4
8943.3	12.5°	8799.5	8627.4	8128.0	7473.5	6759.7	6237.8	6045.9	6000.8	6003.6	6006.4
9366.5	15°	9171.9	8932.1	8209.8	7233.7	6322.4	5930.3	5896.4	5969.7	6045.9	6082.6
9846.1	17.5°	9592.2	9253.7	8223.9	6838.7	5893.6	5732.8	5840.0	5998.0	6113.6	6164.4
10382.2	20°	10043.6	9580.9	8122.4	6280.1	5540.9	5572.0	5763.8	5966.9	6093.9	6158.8
10994.4	22.5°	10559.9	9930.8	7879.7	5693.3	5253.2	5397.0	5622.7	5820.2	5952.8	6017.7
11713.8	25°	11149.6	10322.9	7498.9	5199.6	5004.9	5199.6	5425.2	5588.9	5696.1	5755.3
12517.9	27.5°	11804.1	10732.0	6991.0	4807.4	4787.6	4996.4	5182.6	5309.6	5366.0	5411.1
13372.7	30°	12461.4	11104.4	6376.0	4511.2	4598.6	4796.1	4928.7	4985.1	5002.1	5010.5
14326.3	32.5°	13172.4	11426.0	5729.9	4265.7	4418.1	4601.4	4680.4	4705.8	4626.8	4573.2
15483.0	35°	14032.9	11770.2	5098.0	4071.1	4240.3	4398.3	4423.7	4401.1	4308.0	4198.0
16933.1	37.5°	15096.5	12199.1	4593.0	3932.8	4073.9	4178.3	4147.2	4141.6	4150.0	4020.3
18676.6	40°	16399.9	12757.7	4223.4	3825.6	3938.5	3961.0	3873.6	3921.5	3963.8	3766.4
20589.4	42.5°	17847.2	13431.9	3989.2	3752.3	3825.6	3772.0	3636.6	3690.2	3684.5	3425.0
22510.7	45°	19322.7	14165.5	3907.4	3698.6	3721.2	3614.0	3464.5	3478.6	3360.1	3125.9
24353.0	47.5°	20789.7	14952.6	3958.2	3653.5	3591.4	3470.1	3354.5	3292.4	3117.5	2942.6
26119.1	50°	22228.6	15779.2	4144.4	3563.2	3413.7	3343.2	3258.5	3148.5	2962.3	2812.8
27789.2	52.5°	23563.0	16611.5	4353.2	3413.7	3190.8	3233.1	3179.5	3052.6	2869.2	2716.9
29369.1	55°	24826.9	17443.7	4435.0	3207.8	2982.1	3137.2	3106.2	2872.0	2652.0	2527.8
31022.4	57.5°	26203.7	18445.3	4344.7	2945.4	2812.8	3027.2	2908.7	2649.1	2522.2	2429.1
33175.0	60°	28110.9	20016.7	4150.0	2620.9	2652.0	2863.6	2660.4	2553.2	2415.0	2310.6
36402.5	62.5°	31279.1	22948.0	3836.9	2299.3	2462.9	2620.9	2541.9	2434.7	2293.7	2192.1
41920.8	65°	35962.4	27021.9	3247.3	2048.2	2251.4	2384.0	2415.0	2307.8	2161.1	2053.9
46756.5	67.5°	39912.1	29577.9	2457.3	1839.5	2034.1	2192.1	2279.6	2175.2	2020.0	1915.6
47887.8	70°	39694.9	27721.5	1876.1	1633.5	1842.3	2003.1	2115.9	2034.1	1867.7	1768.9
43497.9	72.5°	35257.1	23190.6	1517.8	1424.7	1647.6	1805.6	1941.0	1878.9	1709.7	1613.8
31865.9	75°	25901.8	16462.0	1213.1	1213.1	1405.0	1599.6	1749.2	1709.7	1554.5	1486.8
13378.3	77.5°	10918.2	6906.4	950.8	1007.2	1168.0	1373.9	1560.1	1574.3	1438.8	1523.5
3537.8	80°	2903.1	1904.3	725.1	792.8	916.9	1134.1	1357.0	1351.4	1204.7	1125.7
1314.7	82.5°	1105.9	750.5	516.3	558.6	663.0	868.9	1074.9	1108.7	962.0	832.3
516.3	85°	426.0	321.6	318.8	335.7	386.5	575.5	812.5	840.7	725.1	615.0
143.9	87.5°	110.0	95.9	118.5	112.8	177.7	307.5	465.5	482.4	442.9	256.7
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>
7795.1
7436.8
6892.3
6395.8
6096.7
6012.1
6079.8
6175.7
6175.7
6034.6
5772.3
5428.1
5030.3
4590.2
4203.7
4028.7
3772.0
3422.2
3134.4
2942.6
2801.5
2719.7
2516.5
2420.6
2305.0
2192.1
2059.5
1918.4
1777.4
1613.8
1467.0
1382.4
1046.7
832.3
634.8
366.8
0.0

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