

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: P941645

Luminaire Tested: **GALN-SB5B-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941645
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-740-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29818 lumens
Efficiency: N/A
Efficacy: 163.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

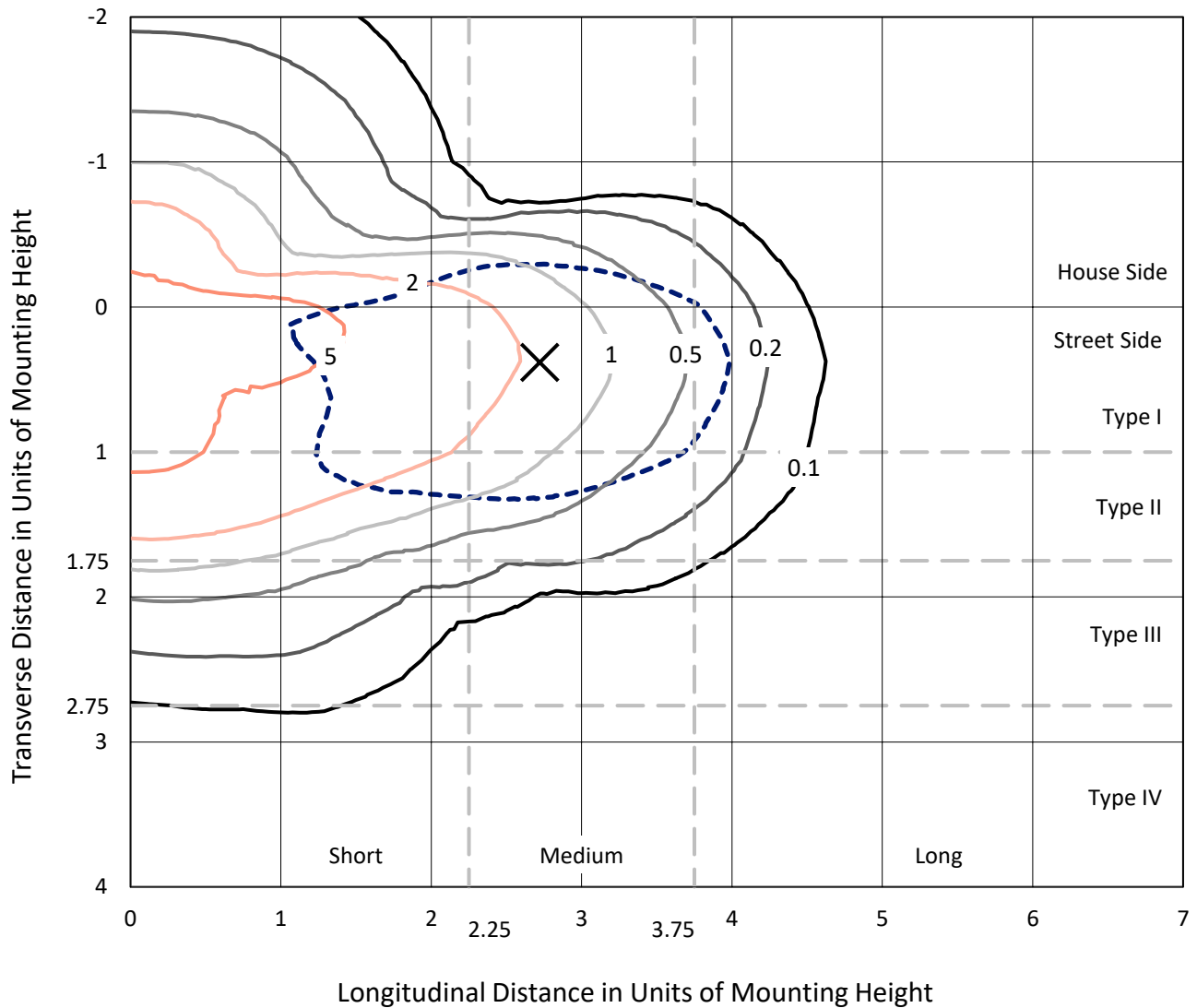
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

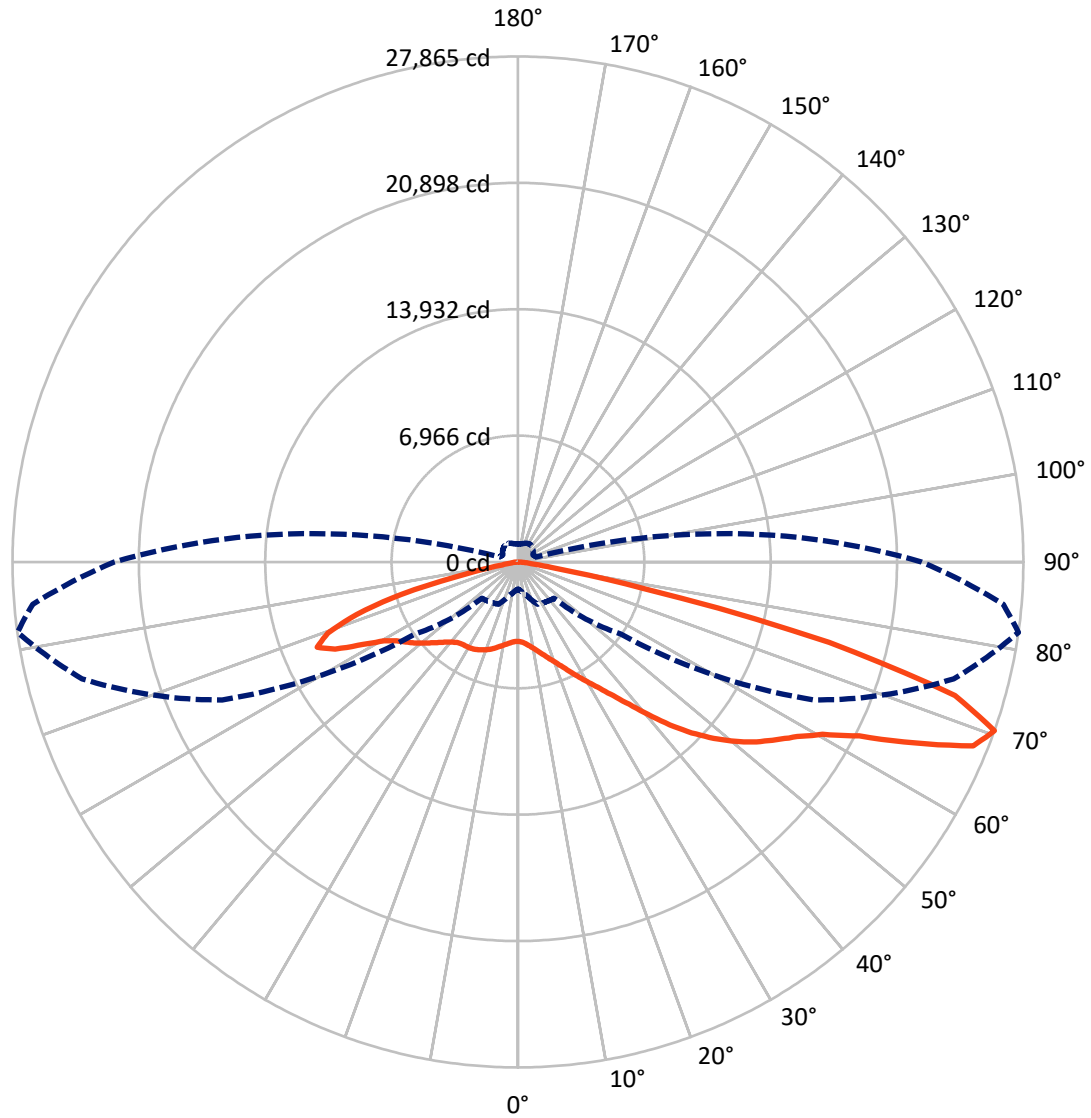
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	7350.9	0.0	7350.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	22467.1	0.0	22467.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	29818.0	0.0	29818.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.8	1.4
10°-20°	1185.9	4.0
20°-30°	1983.9	6.7
30°-40°	3099.3	10.4
40°-50°	4936.1	16.6
50°-60°	6869.1	23.0
60°-70°	7185.4	24.1
70°-80°	3755.5	12.6
80°-90°	390.0	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°	29818.0	100.0
0°-180°	29818.0	100.0

Coefficient of Utilization



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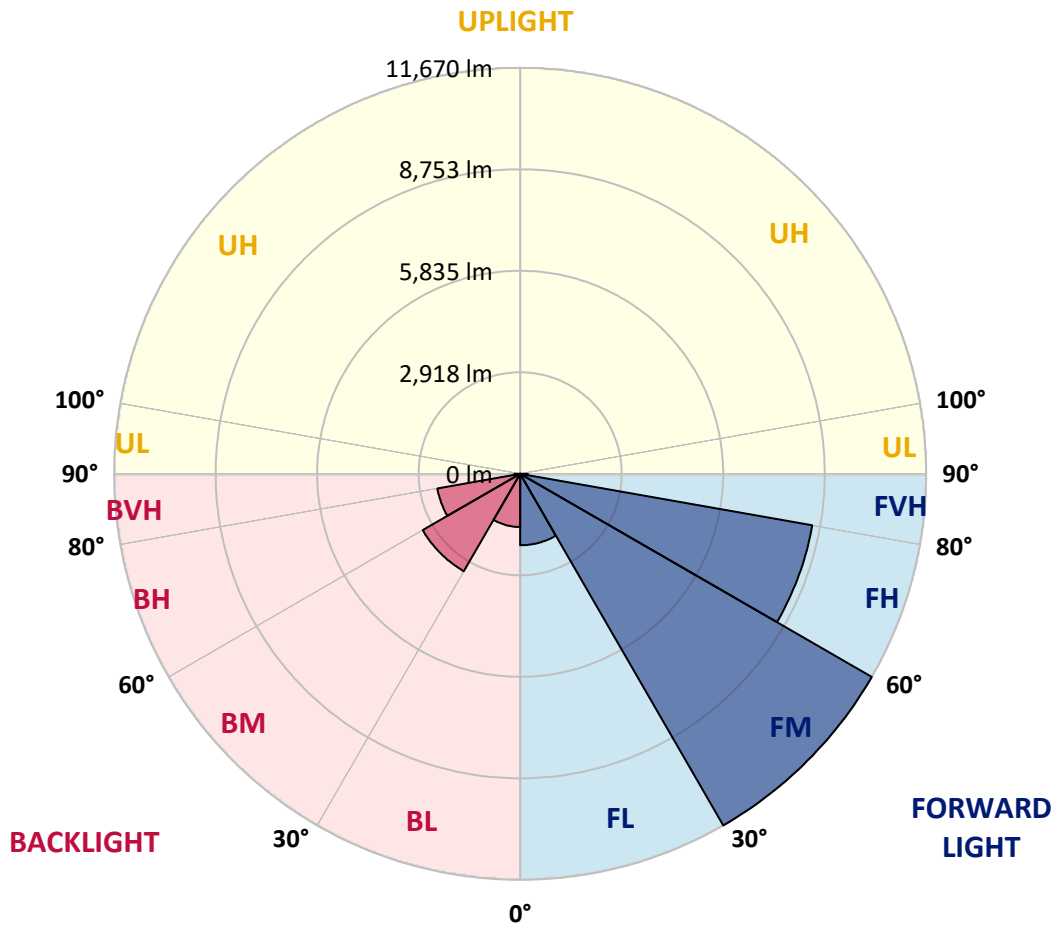
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2053.3	6.9			
FM (30°-60°)	11670.5	39.1			
FH (60°-80°)	8525.1	28.6			G4/12000
FVH (80°-90°)	218.3	0.7			G2/225
BL (0°-30°)	1529.2	5.1	B3/2500		
BM (30°-60°)	3234.1	10.8	B3/5000		
BH (60°-80°)	2415.9	8.1	B3/2500		G3/2500
BVH (80°-90°)	171.7	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4371.7	4371.7	4371.7	4371.7	4371.7	4371.7	4371.7	4371.7	4371.7	4371.7
2.5°	4476.1	4501.4	4493.5	4485.6	4485.6	4474.5	4473.0	4457.1	4444.5	4423.9
5°	4533.1	4560.0	4556.8	4563.1	4583.7	4588.5	4593.2	4583.7	4558.4	4533.1
7.5°	4482.4	4512.5	4522.0	4560.0	4623.3	4680.2	4722.9	4740.4	4716.6	4680.2
10°	4311.6	4344.8	4378.0	4468.2	4580.5	4715.0	4829.0	4897.0	4892.2	4857.4
12.5°	3965.1	3999.9	4071.1	4246.7	4452.4	4689.7	4901.7	5044.1	5093.2	5067.9
15°	3688.2	3718.2	3772.0	3952.4	4219.8	4580.5	4928.6	5205.5	5330.5	5316.3
17.5°	3680.3	3692.9	3726.1	3811.6	4017.3	4409.7	4900.2	5363.7	5602.7	5601.1
20°	3819.5	3824.2	3843.2	3860.6	3977.7	4279.9	4827.4	5495.1	5908.0	5908.0
22.5°	4012.5	4009.4	4028.3	4012.5	4069.5	4268.8	4781.5	5610.6	6248.2	6273.5
25°	4302.1	4286.3	4281.5	4245.1	4256.2	4371.7	4832.1	5741.9	6651.7	6703.9
27.5°	4688.1	4662.8	4645.4	4561.6	4533.1	4583.7	4987.2	5900.1	7101.0	7191.2
30°	5191.3	5145.4	5120.1	4974.5	4871.7	4879.6	5221.3	6110.6	7571.0	7716.5
32.5°	5878.0	5806.8	5738.7	5499.8	5311.5	5249.8	5523.6	6401.7	8080.4	8313.0
35°	6646.9	6590.0	6517.2	6148.5	5859.0	5716.6	5931.8	6808.3	8676.9	9045.6
37.5°	7387.4	7338.4	7373.2	6876.4	6503.0	6295.7	6466.6	7354.2	9412.7	9957.0
40°	8153.2	8115.2	8120.0	7645.3	7210.2	6977.6	7115.3	8039.3	10256.0	11040.8
42.5°	8985.5	8957.0	8862.1	8441.2	7952.3	7735.5	7862.1	8830.4	11161.0	12274.9
45°	9917.4	9900.0	9811.4	9328.8	8768.7	8525.0	8695.9	9703.8	12070.8	13436.3
47.5°	10722.7	10737.0	10725.9	10319.3	9738.6	9381.0	9585.1	10615.2	12917.3	14528.0
50°	11110.4	11184.8	11293.9	11167.4	10806.6	10442.7	10482.3	11494.9	13724.2	15551.7
52.5°	10907.9	11048.7	11346.1	11548.7	11687.9	11612.0	11506.0	12368.3	14483.7	16475.7
55°	10153.1	10350.9	10844.6	11333.5	12043.9	12596.1	12735.3	13336.6	15224.2	17289.0
57.5°	8778.2	9099.4	9542.4	10531.3	11727.5	13072.4	14168.8	14679.9	16009.0	18157.6
60°	6420.7	6851.0	7401.7	8873.1	10619.9	12817.6	15388.7	16743.1	17124.4	19282.6
62.5°	4109.0	4374.9	4881.2	6267.2	8275.0	11512.3	15762.1	19322.1	19015.2	21127.5
65°	2813.2	2984.1	3447.7	4226.1	5349.5	8569.3	14762.2	21255.6	22018.3	24051.4
67.5°	2044.2	2174.0	2569.5	3251.5	3485.6	5071.0	11455.3	21167.0	24937.5	27064.0
70°	1490.5	1582.2	1914.5	2569.5	2681.9	2821.1	6939.6	17993.1	24874.2	27864.6
72.5°	1104.4	1167.7	1390.8	1993.6	2170.8	1905.0	3435.0	13077.1	21374.3	25203.3
75°	799.0	846.5	1011.0	1525.3	1737.3	1450.9	1713.6	7642.2	14909.3	17728.8
77.5°	610.7	647.1	754.7	1117.1	1390.8	1088.6	1063.3	3515.7	7069.4	7104.2
80°	490.5	514.2	572.8	786.4	1066.4	814.8	693.0	1419.3	2234.1	1890.8
82.5°	360.7	400.3	484.2	552.2	762.6	561.7	422.5	716.7	849.7	731.0
85°	205.7	232.6	292.7	395.6	487.3	343.3	242.1	318.0	395.6	324.4
87.5°	72.8	94.9	102.8	155.1	212.0	142.4	93.4	91.8	129.7	96.5
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°
4371.7	0°	4371.7	4371.7	4371.7	4371.7	4371.7	4371.7	4371.7	4371.7	4371.7	4371.7
4419.2	2.5°	4403.3	4395.4	4363.8	4321.1	4276.8	4234.0	4219.8	4189.7	4169.2	4158.1
4522.0	5°	4491.9	4466.6	4392.3	4297.3	4197.6	4090.1	4014.1	3944.5	3893.9	3846.4
4662.8	7.5°	4618.5	4574.2	4446.1	4279.9	4102.7	3923.9	3791.0	3689.8	3621.7	3577.4
4827.4	10°	4765.7	4697.6	4501.4	4253.0	3979.3	3723.0	3566.3	3479.3	3436.6	3412.9
5015.7	12.5°	4935.0	4838.4	4558.4	4191.3	3791.0	3498.3	3390.7	3365.4	3367.0	3368.6
5253.0	15°	5143.8	5009.3	4604.3	4056.8	3545.8	3325.8	3306.9	3348.0	3390.7	3411.3
5522.0	17.5°	5379.6	5189.7	4612.2	3835.3	3305.3	3215.1	3275.2	3363.8	3428.7	3457.2
5822.6	20°	5632.7	5373.2	4555.2	3522.0	3107.5	3124.9	3232.5	3346.4	3417.6	3454.0
6165.9	22.5°	5922.3	5569.4	4419.2	3192.9	2946.1	3026.8	3153.4	3264.1	3338.5	3374.9
6569.4	25°	6253.0	5789.4	4205.6	2916.0	2806.9	2916.0	3042.6	3134.4	3194.5	3227.7
7020.3	27.5°	6620.0	6018.8	3920.8	2696.1	2685.0	2802.1	2906.5	2977.8	3009.4	3034.7
7499.8	30°	6988.7	6227.6	3575.8	2530.0	2579.0	2689.8	2764.1	2795.8	2805.3	2810.0
8034.5	32.5°	7387.4	6408.0	3213.5	2392.3	2477.8	2580.6	2624.9	2639.2	2594.9	2564.8
8683.3	35°	7870.0	6601.0	2859.1	2283.2	2378.1	2466.7	2480.9	2468.3	2416.1	2354.4
9496.5	37.5°	8466.5	6841.5	2575.9	2205.6	2284.7	2343.3	2325.9	2322.7	2327.5	2254.7
10474.3	40°	9197.5	7154.8	2368.6	2145.5	2208.8	2221.4	2172.4	2199.3	2223.0	2112.3
11547.1	42.5°	10009.2	7533.0	2237.3	2104.4	2145.5	2115.4	2039.5	2069.6	2066.4	1920.8
12624.6	45°	10836.7	7944.4	2191.4	2074.3	2087.0	2026.8	1943.0	1950.9	1884.4	1753.1
13657.8	47.5°	11659.4	8385.8	2219.9	2049.0	2014.2	1946.1	1881.3	1846.5	1748.4	1650.3
14648.3	50°	12466.4	8849.4	2324.3	1998.4	1914.5	1874.9	1827.5	1765.8	1661.3	1577.5
15584.9	52.5°	13214.8	9316.1	2441.4	1914.5	1789.5	1813.2	1783.2	1712.0	1609.1	1523.7
16471.0	55°	13923.6	9782.9	2487.3	1799.0	1672.4	1759.4	1742.0	1610.7	1487.3	1417.7
17398.2	57.5°	14695.7	10344.6	2436.6	1651.8	1577.5	1697.7	1631.3	1485.7	1414.5	1362.3
18605.4	60°	15765.3	11225.9	2327.5	1469.9	1487.3	1606.0	1492.0	1431.9	1354.4	1295.8
20415.5	62.5°	17542.1	12869.8	2151.8	1289.5	1381.3	1469.9	1425.6	1365.5	1286.4	1229.4
23510.3	65°	20168.6	15154.6	1821.1	1148.7	1262.6	1337.0	1354.4	1294.3	1212.0	1151.9
26222.2	67.5°	22383.8	16588.1	1378.1	1031.6	1140.8	1229.4	1278.4	1219.9	1132.9	1074.3
26856.7	70°	22261.9	15547.0	1052.2	916.1	1033.2	1123.4	1186.7	1140.8	1047.4	992.1
24394.8	72.5°	19773.1	13005.9	851.2	799.0	924.0	1012.6	1088.6	1053.8	958.8	905.0
17871.2	75°	14526.4	9232.3	680.4	680.4	787.9	897.1	981.0	958.8	871.8	833.8
7502.9	77.5°	6123.2	3873.3	533.2	564.9	655.0	770.5	875.0	882.9	806.9	854.4
1984.1	80°	1628.1	1068.0	406.6	444.6	514.2	636.1	761.1	757.9	675.6	631.3
737.3	82.5°	620.2	420.9	289.5	313.3	371.8	487.3	602.8	621.8	539.5	466.8
289.5	85°	238.9	180.4	178.8	188.3	216.8	322.8	455.7	471.5	406.6	344.9
80.7	87.5°	61.7	53.8	66.5	63.3	99.7	172.5	261.1	270.6	248.4	144.0
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>
4371.7
4170.7
3865.4
3586.9
3419.2
3371.7
3409.7
3463.5
3463.5
3384.4
3237.2
3044.2
2821.1
2574.3
2357.5
2259.4
2115.4
1919.2
1757.9
1650.3
1571.2
1525.3
1411.3
1357.6
1292.7
1229.4
1155.0
1075.9
996.8
905.0
822.8
775.3
587.0
466.8
356.0
205.7
0.0

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