

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: P951843

Luminaire Tested: **GALN-SB5D-840-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-840-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49073 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

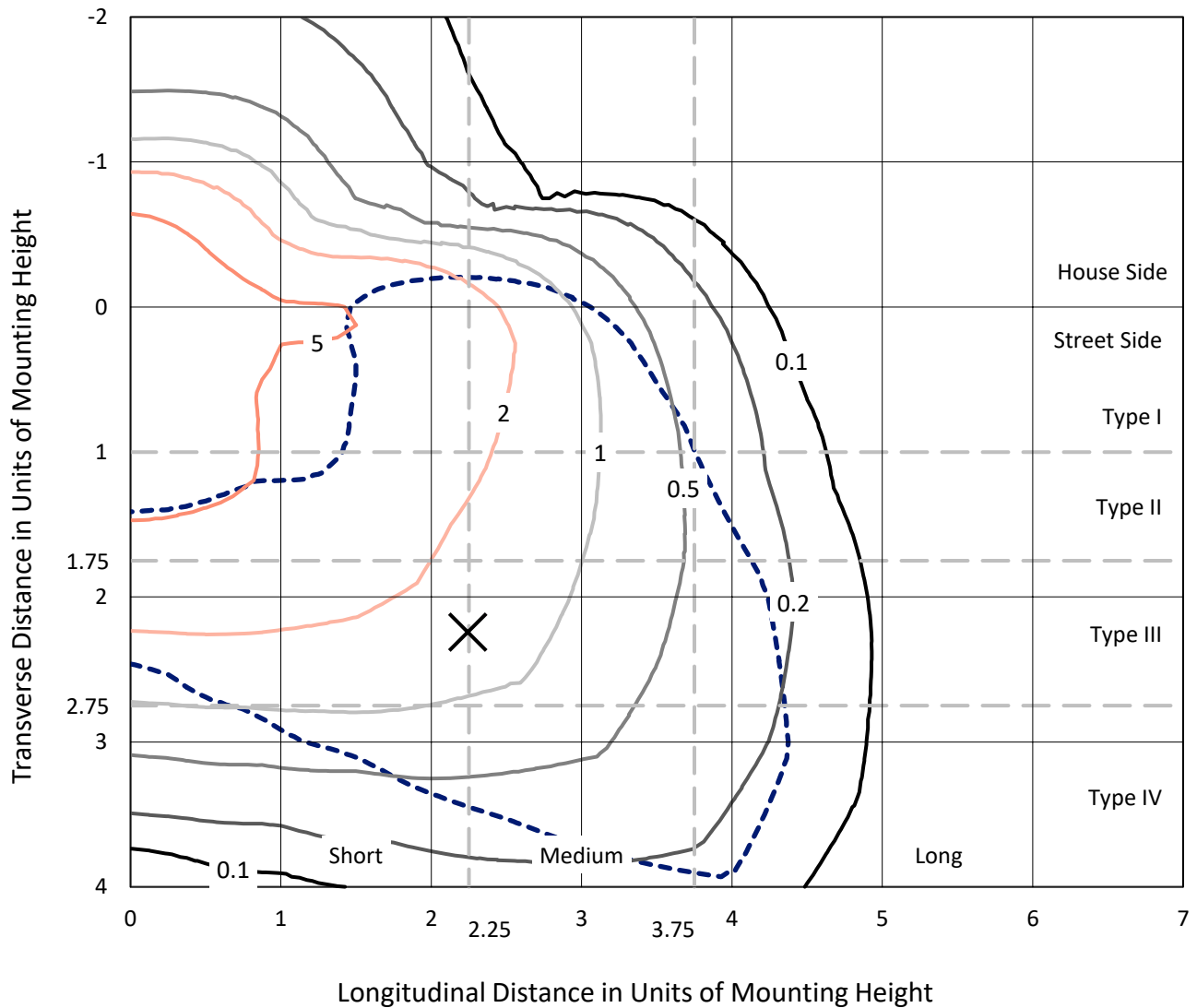
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

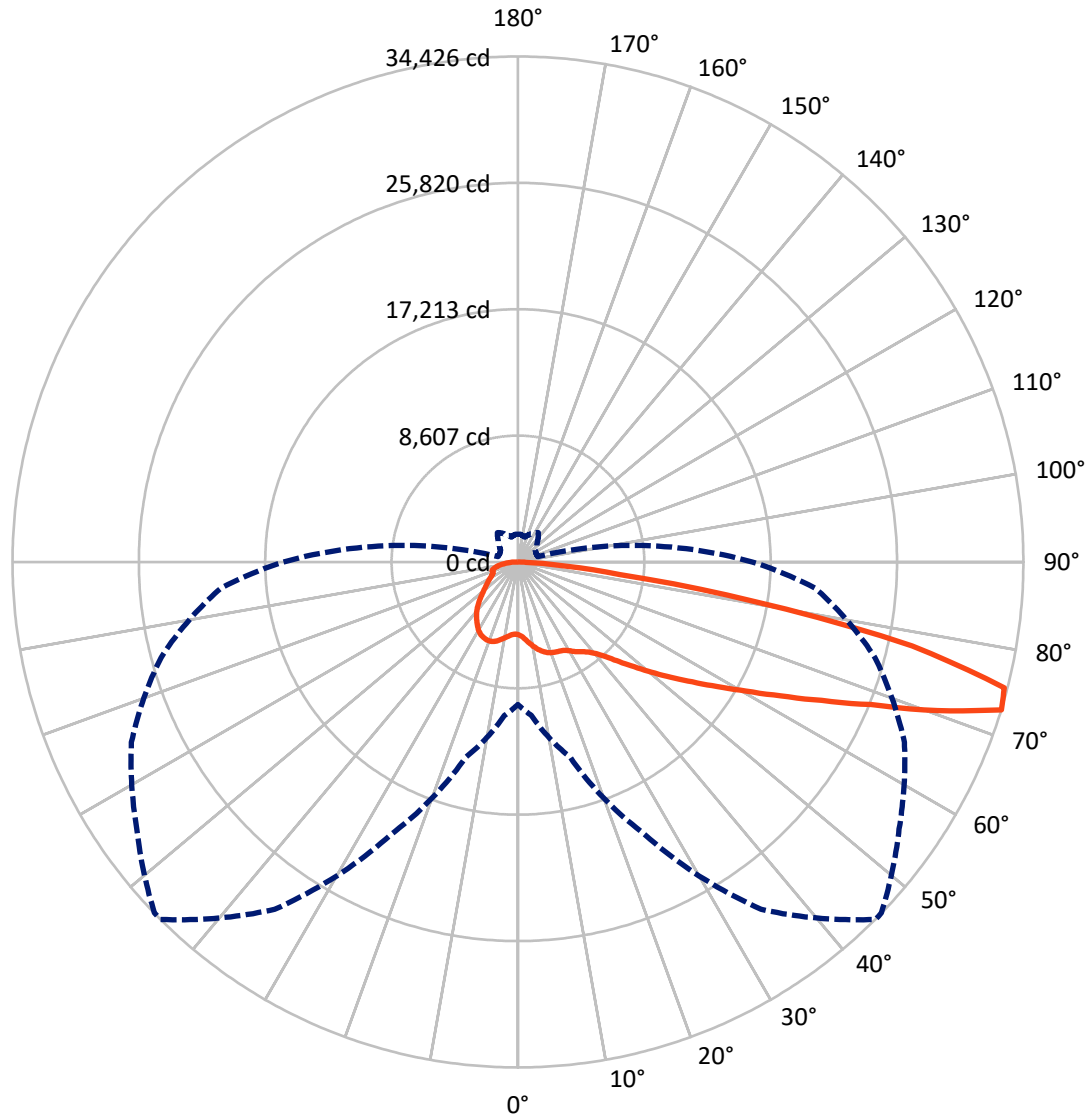
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11093.7	0.0	11093.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	37979.3	0.0	37979.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	49073.0	0.0	49073.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.9	1.0
10°-20°	1679.9	3.4
20°-30°	2922.4	6.0
30°-40°	4189.4	8.5
40°-50°	5898.9	12.0
50°-60°	9035.4	18.4
60°-70°	13089.0	26.7
70°-80°	10452.4	21.3
80°-90°	1301.8	2.7
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°	49073.0	100.0
0°-180°	49073.0	100.0

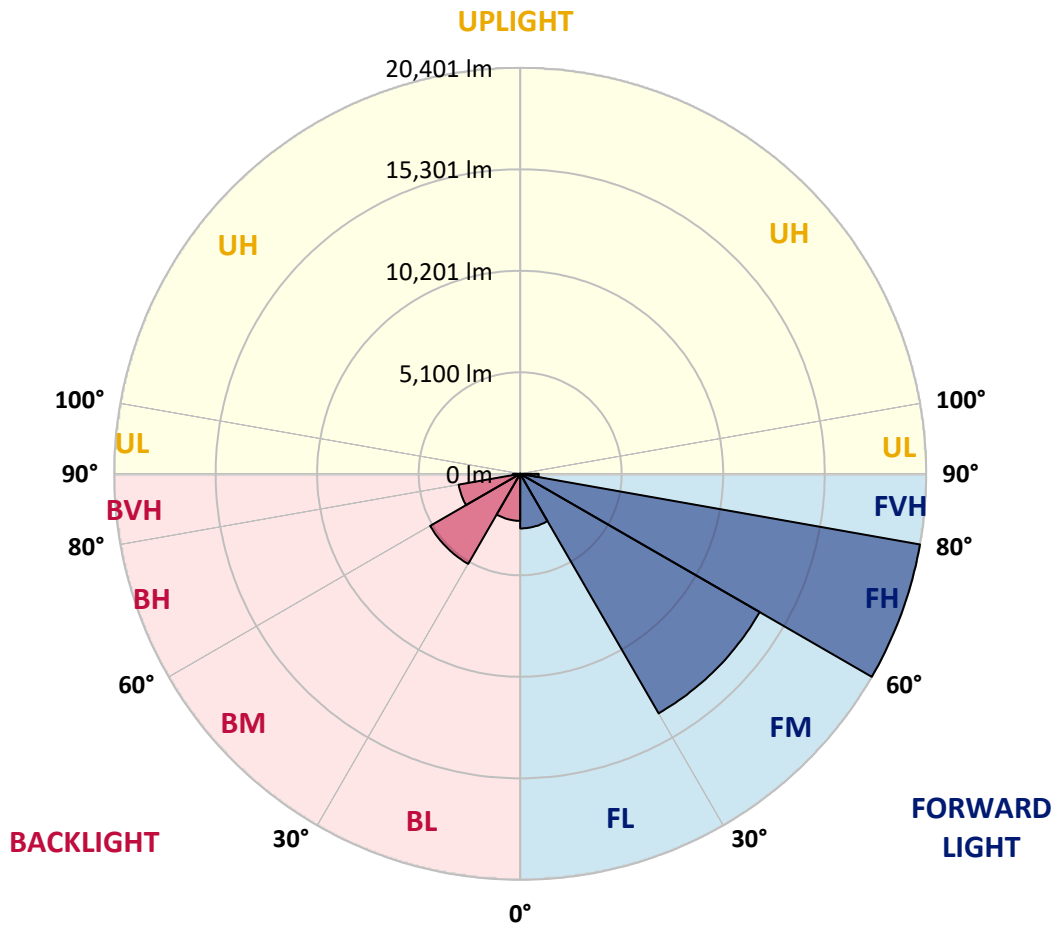


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2744.2	5.6			
FM (30°-60°)	13900.0	28.3			
FH (60°-80°)	20401.1	41.6			G5
FVH (80°-90°)	933.9	1.9			G5
BL (0°-30°)	2361.9	4.8	B3/2500		
BM (30°-60°)	5223.6	10.6	B4/8500		
BH (60°-80°)	3140.3	6.4	B4/5000		G4/5000
BVH (80°-90°)	367.9	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4950.5	4950.5	4950.5	4950.5	4950.5	4950.5	4950.5	4950.5	4950.5	4950.5
2.5°	5144.4	5178.0	5147.0	5118.5	5105.6	5072.0	5069.4	5048.7	5035.8	4999.6
5°	5503.7	5547.7	5496.0	5439.1	5387.4	5304.7	5294.3	5234.9	5167.7	5090.1
7.5°	5909.6	5948.4	5888.9	5803.6	5713.1	5576.1	5573.5	5465.0	5359.0	5227.1
10°	6263.8	6315.5	6235.3	6119.0	6005.2	5850.1	5832.0	5708.0	5573.5	5402.9
12.5°	6576.6	6612.7	6535.2	6393.0	6261.2	6106.1	6082.8	5945.8	5795.8	5602.0
15°	6824.7	6871.3	6767.9	6615.3	6475.7	6323.2	6302.5	6178.4	6028.5	5824.3
17.5°	6987.6	7026.4	6920.4	6749.8	6615.3	6488.7	6473.1	6369.7	6237.9	6031.1
20°	7049.6	7091.0	6979.8	6806.6	6682.5	6584.3	6576.6	6501.6	6411.1	6222.4
22.5°	7111.7	7150.5	7005.7	6824.7	6716.1	6654.1	6651.5	6602.4	6566.2	6411.1
25°	7362.4	7372.8	7178.9	6917.8	6762.7	6708.4	6705.8	6703.2	6718.7	6597.2
27.5°	7579.6	7577.0	7411.5	7166.0	6925.5	6811.8	6809.2	6835.1	6884.2	6783.4
30°	7897.6	7869.1	7672.6	7416.7	7197.0	7021.2	7005.7	6982.4	7021.2	6941.1
32.5°	8572.3	8481.8	8163.8	7708.8	7421.9	7287.5	7266.8	7122.0	7137.5	7088.4
35°	9539.1	9420.2	8996.2	8262.1	7701.1	7509.8	7499.4	7315.9	7284.9	7240.9
37.5°	10689.5	10542.1	10048.4	9063.4	8181.9	7768.3	7752.8	7587.3	7460.7	7414.1
40°	11845.0	11658.9	11250.5	10040.6	8890.2	8200.0	8150.9	7900.1	7755.4	7677.8
42.5°	12967.0	12811.9	12462.9	11136.7	9764.0	8830.8	8722.2	8293.1	8184.5	8112.1
45°	13959.7	13820.1	13564.1	12307.8	10787.7	9689.0	9583.1	8882.5	8848.9	8848.9
47.5°	14766.2	14735.2	14463.8	13502.1	11995.0	10666.2	10482.7	9702.0	9792.4	9932.0
50°	15660.7	15575.4	15285.8	14678.3	13414.2	11785.6	11635.6	10707.6	11046.2	11428.8
52.5°	16482.7	16529.3	16206.1	15903.7	15017.0	13034.2	12770.5	11894.2	12625.7	13259.1
55°	17328.1	17330.7	17240.2	17198.8	16697.3	14414.6	14125.1	13321.1	14484.4	15270.3
57.5°	18121.7	18126.9	18261.3	18625.8	18646.5	16007.1	15678.8	15073.9	16550.0	17351.3
60°	18830.0	18866.2	19233.3	20086.4	20360.4	17832.2	17522.0	17144.5	18685.3	19491.8
62.5°	19067.9	19199.7	20016.6	21229.0	22053.7	20070.9	19765.9	19540.9	20929.2	21678.8
65°	18664.6	18967.0	20546.6	22172.6	23796.1	22731.0	22428.5	22182.9	23260.9	23966.7
67.5°	17674.5	18064.8	20515.5	23162.7	25910.7	25931.4	25649.6	25073.1	25760.8	26032.2
70°	15066.1	15650.3	18708.5	23532.4	28338.1	30308.0	30036.5	28552.7	28255.4	26942.2
72.5°	9707.1	10493.0	13776.1	20489.7	28878.4	34426.1	34410.6	31693.6	29043.9	25173.9
75°	3541.6	4022.5	6400.8	12861.0	24240.7	34216.7	34317.5	31155.9	26513.0	19445.3
77.5°	1290.0	1411.5	2088.8	4942.8	14908.4	27454.0	27663.4	24907.7	18871.4	9758.8
80°	677.3	744.5	1070.2	1918.2	6387.8	16304.4	16632.7	14802.4	8869.6	2939.3
82.5°	374.8	405.9	599.7	1041.8	2877.2	6972.1	7168.5	5847.5	3120.2	1246.0
85°	201.6	214.6	281.8	568.7	1406.3	2417.1	2471.4	1747.5	1243.4	731.6
87.5°	59.5	72.4	93.1	181.0	550.6	542.9	555.8	346.4	491.2	369.7
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°
4950.5	0°	4950.5	4950.5	4950.5	4950.5	4950.5	4950.5	4950.5	4950.5	4950.5	4950.5
4989.3	2.5°	4973.8	4966.0	4937.6	4924.7	4909.1	4906.6	4919.5	4922.1	4924.7	4927.2
5046.2	5°	5020.3	4994.5	4968.6	4953.1	4958.3	4960.9	4986.7	5004.8	5017.7	5028.1
5152.2	7.5°	5110.8	5090.1	5046.2	5043.6	5051.3	5074.6	5108.2	5149.6	5172.8	5190.9
5289.2	10°	5245.2	5206.4	5154.7	5162.5	5178.0	5211.6	5281.4	5315.0	5353.8	5387.4
5457.2	12.5°	5382.2	5348.6	5289.2	5294.3	5320.2	5379.6	5446.9	5488.2	5514.1	5539.9
5638.2	15°	5560.6	5501.1	5436.5	5436.5	5483.0	5547.7	5578.7	5612.3	5627.8	5656.2
5832.0	17.5°	5744.1	5666.6	5581.3	5576.1	5633.0	5664.0	5682.1	5687.3	5692.4	5723.5
6020.8	20°	5927.7	5842.4	5720.9	5710.5	5723.5	5718.3	5715.7	5710.5	5718.3	5757.1
6214.6	22.5°	6108.6	6010.4	5842.4	5795.8	5759.7	5710.5	5708.0	5705.4	5710.5	5749.3
6424.0	25°	6320.6	6201.7	5976.8	5837.2	5715.7	5648.5	5656.2	5658.8	5664.0	5695.0
6641.2	27.5°	6550.7	6418.9	6100.9	5824.3	5604.5	5558.0	5545.1	5552.8	5570.9	5620.1
6858.3	30°	6780.8	6625.7	6214.6	5772.6	5465.0	5400.3	5359.0	5377.1	5433.9	5483.0
7047.0	32.5°	6990.2	6835.1	6305.1	5658.8	5286.6	5185.8	5131.5	5154.7	5211.6	5229.7
7256.4	35°	7235.8	7060.0	6343.9	5477.9	5092.7	4937.6	4865.2	4831.6	4860.0	4841.9
7502.0	37.5°	7509.8	7326.2	6338.7	5240.0	4865.2	4686.8	4586.0	4459.3	4399.9	4337.8
7863.9	40°	7915.6	7652.0	6276.7	4953.1	4583.4	4420.6	4239.6	4025.0	3890.6	3769.1
8448.2	42.5°	8468.9	8104.4	6162.9	4637.7	4265.5	4112.9	3867.3	3616.6	3404.6	3203.0
9334.9	45°	9293.5	8696.4	6020.8	4301.6	3921.6	3771.7	3505.4	3223.6	2983.2	2724.7
10593.8	47.5°	10482.7	9492.6	5886.3	3919.0	3559.7	3422.7	3182.3	2921.2	2636.8	2386.1
12413.8	50°	12116.5	10635.2	5762.2	3546.8	3203.0	3099.6	2908.3	2642.0	2355.0	2153.4
14546.5	52.5°	14194.9	12188.9	5710.5	3187.5	2869.5	2830.7	2678.2	2430.0	2158.6	1988.0
17033.4	55°	16581.0	14047.6	5710.5	2843.6	2577.4	2590.3	2484.3	2254.2	2019.0	1866.5
19597.8	57.5°	19016.2	15929.5	5607.1	2525.7	2329.2	2383.5	2316.3	2114.6	1902.7	1745.0
22294.1	60°	21260.1	17506.5	5188.3	2236.1	2109.5	2194.8	2150.8	1977.6	1719.1	1587.3
24548.3	62.5°	22984.3	18395.7	4381.8	2006.1	1928.5	2026.7	2003.5	1796.7	1685.5	1631.2
26399.3	65°	23847.8	18251.0	3350.3	1801.8	1776.0	1928.5	1879.4	1871.6	1783.7	1721.7
27001.6	67.5°	23317.8	17004.9	2430.0	1651.9	1688.1	1838.0	2026.7	2057.8	1894.9	1773.4
25305.8	70°	20993.8	14750.7	1809.6	1509.7	1576.9	1840.6	2311.1	2153.4	1858.7	1716.5
20295.8	72.5°	15970.9	10999.7	1403.7	1359.8	1432.2	1853.5	2437.8	2109.5	1755.3	1897.5
12643.8	75°	9133.2	6038.8	1127.1	1176.2	1251.2	1732.0	2373.1	1995.7	1675.2	1742.4
5010.0	77.5°	3482.2	2321.4	930.6	995.3	1005.6	1512.3	2269.7	1988.0	1595.0	1556.2
1502.0	80°	1207.3	907.4	770.4	791.0	778.1	1344.3	2176.7	1729.4	1305.5	1168.5
620.4	82.5°	493.8	452.4	610.1	584.2	553.2	1044.4	1757.9	1414.1	1067.7	943.6
299.9	85°	214.6	286.9	403.3	354.2	320.6	723.8	1408.9	1196.9	902.2	778.1
98.2	87.5°	43.9	108.6	170.6	160.3	165.4	483.4	1000.4	850.5	638.5	478.2
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>
4950.5
4937.6
5033.2
5196.1
5379.6
5550.3
5666.6
5733.8
5772.6
5775.2
5736.4
5669.2
5537.3
5294.3
4898.8
4376.6
3776.9
3184.9
2693.7
2357.6
2140.5
1975.0
1850.9
1719.1
1566.6
1613.1
1701.0
1752.7
1693.3
1882.0
1742.4
1419.2
1129.7
933.2
775.5
374.8
0.0

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