

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: P943075

Luminaire Tested: **GALN-SB7B-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943075
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-SB7B-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37954 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

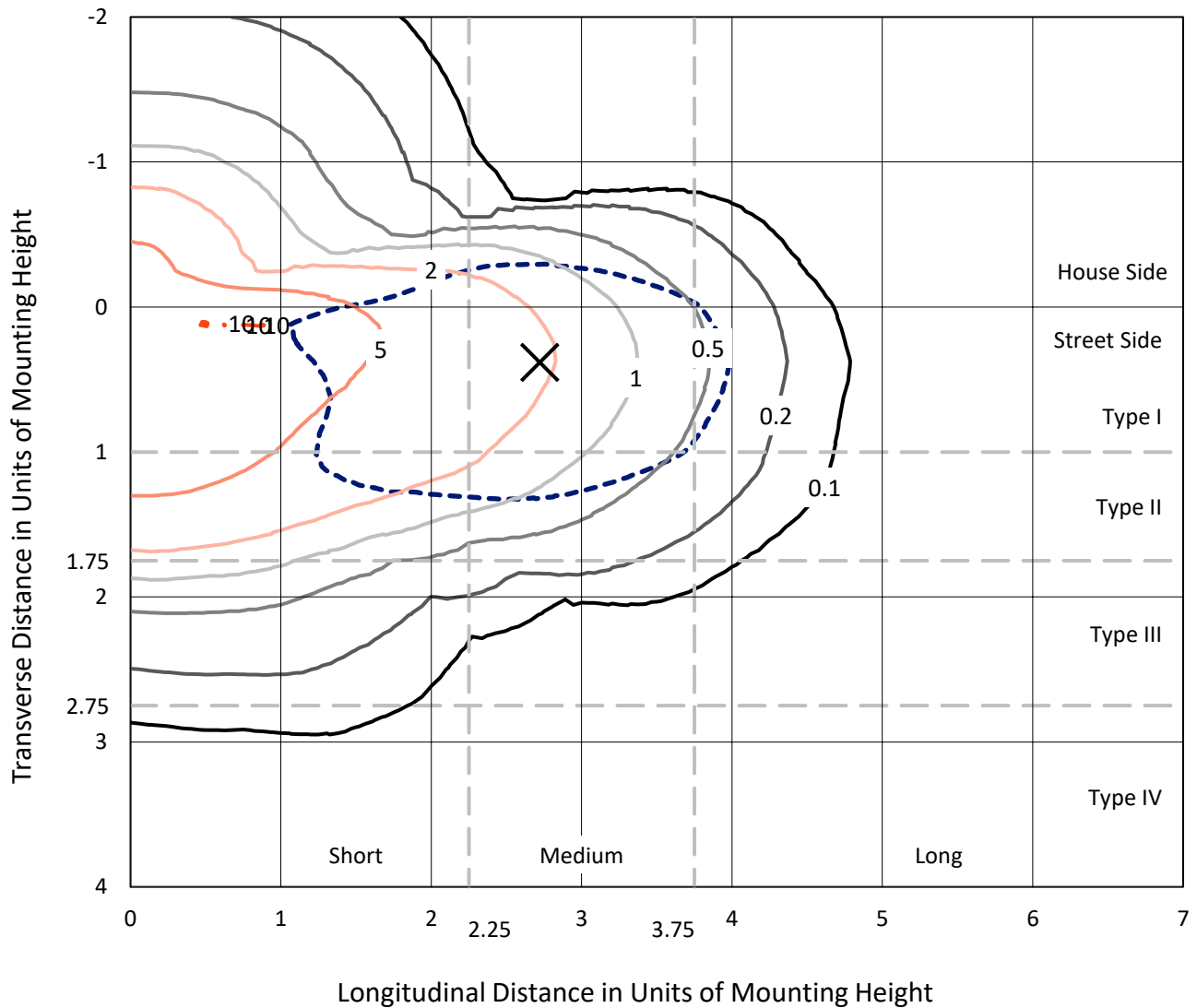
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

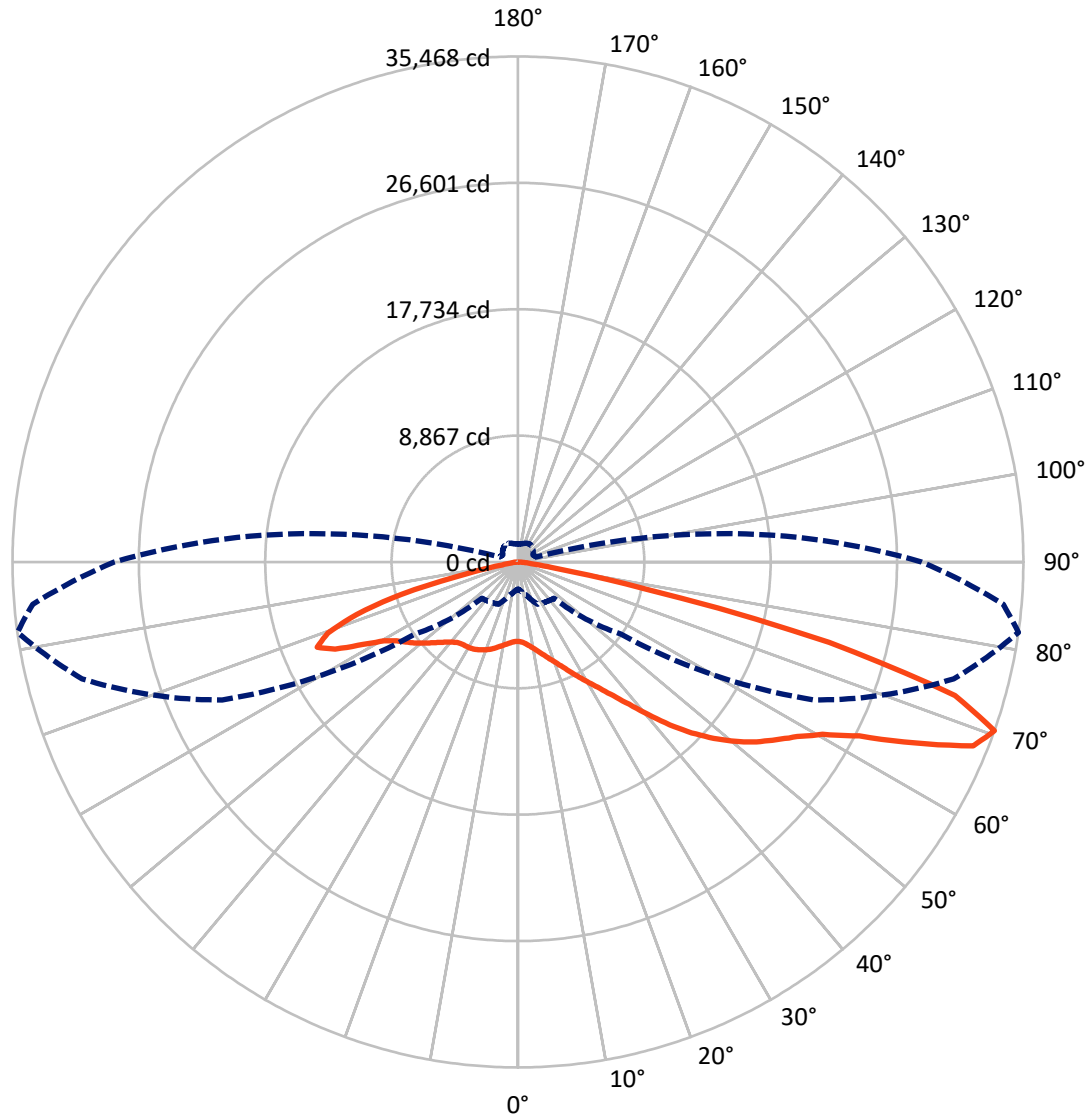
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	9356.6	0.0	9356.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	28597.4	0.0	28597.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	37954.0	0.0	37954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.4	1.4
10°-20°	1509.5	4.0
20°-30°	2525.2	6.7
30°-40°	3945.0	10.4
40°-50°	6282.9	16.6
50°-60°	8743.4	23.0
60°-70°	9146.0	24.1
70°-80°	4780.2	12.6
80°-90°	496.4	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°	37954.0	100.0
0°-180°	37954.0	100.0

Coefficient of Utilization



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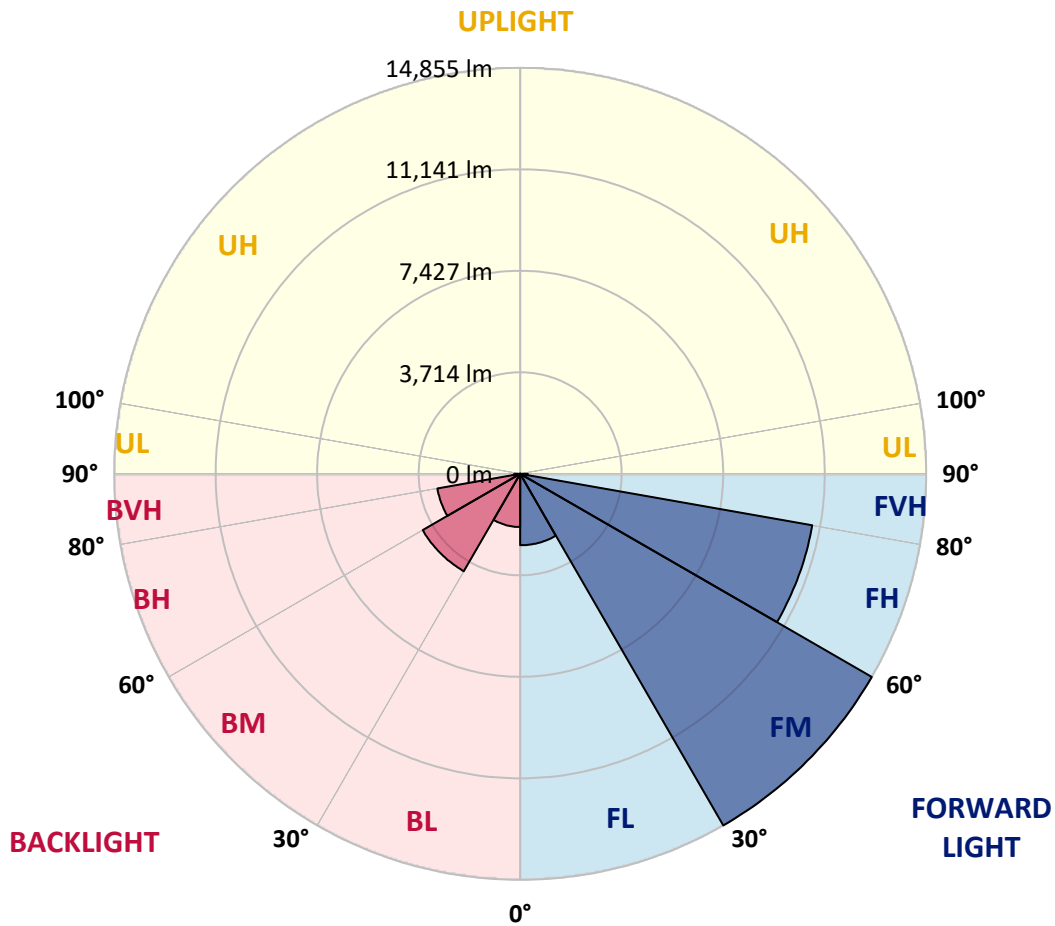
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2613.6	6.9			
FM (30°-60°)	14854.8	39.1			
FH (60°-80°)	10851.2	28.6			G4/12000
FVH (80°-90°)	277.9	0.7			G3/500
BL (0°-30°)	1946.5	5.1	B3/2500		
BM (30°-60°)	4116.5	10.8	B3/5000		
BH (60°-80°)	3075.1	8.1	B4/5000		G4/5000
BVH (80°-90°)	218.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5564.5	5564.5	5564.5	5564.5	5564.5	5564.5	5564.5	5564.5	5564.5	5564.5
2.5°	5697.5	5729.7	5719.6	5709.5	5709.5	5695.4	5693.4	5673.3	5657.2	5631.0
5°	5770.0	5804.2	5800.2	5808.2	5834.4	5840.4	5846.5	5834.4	5802.2	5770.0
7.5°	5705.5	5743.8	5755.9	5804.2	5884.7	5957.3	6011.6	6033.8	6003.6	5957.3
10°	5488.0	5530.3	5572.6	5687.4	5830.4	6001.6	6146.6	6233.2	6227.1	6182.8
12.5°	5046.9	5091.3	5181.9	5405.4	5667.2	5969.3	6239.2	6420.5	6482.9	6450.7
15°	4694.5	4732.8	4801.2	5030.8	5371.2	5830.4	6273.4	6625.9	6785.0	6766.9
17.5°	4684.4	4700.5	4742.8	4851.6	5113.4	5612.9	6237.2	6827.3	7131.4	7129.4
20°	4861.7	4867.7	4891.9	4914.0	5063.1	5447.7	6144.5	6994.4	7520.1	7520.1
22.5°	5107.4	5103.3	5127.5	5107.4	5179.9	5433.6	6086.1	7141.5	7953.1	7985.3
25°	5475.9	5455.8	5449.7	5403.4	5417.5	5564.5	6150.6	7308.6	8466.6	8533.1
27.5°	5967.3	5935.1	5912.9	5806.2	5770.0	5834.4	6348.0	7510.0	9038.6	9153.4
30°	6607.8	6549.4	6517.1	6331.8	6200.9	6211.0	6646.0	7777.9	9636.7	9822.0
32.5°	7481.8	7391.2	7304.6	7000.5	6760.8	6682.3	7030.7	8148.4	10285.2	10581.3
35°	8460.6	8388.1	8295.4	7826.2	7457.6	7276.4	7550.3	8666.0	11044.5	11513.7
37.5°	9403.1	9340.7	9385.0	8752.6	8277.3	8013.5	8231.0	9360.8	11981.0	12673.8
40°	10377.9	10329.5	10335.6	9731.4	9177.5	8881.5	9056.7	10232.9	13054.4	14053.3
42.5°	11437.2	11400.9	11280.1	10744.4	10122.1	9846.2	10007.3	11239.8	14206.4	15624.2
45°	12623.4	12601.3	12488.5	11874.2	11161.3	10851.1	11068.6	12351.5	15364.4	17102.4
47.5°	13648.5	13666.6	13652.5	13135.0	12395.8	11940.7	12200.5	13511.6	16441.8	18492.0
50°	14141.9	14236.6	14375.5	14214.4	13755.2	13292.0	13342.4	14631.3	17469.0	19795.1
52.5°	13884.1	14063.4	14442.0	14699.8	14877.0	14780.3	14645.4	15743.0	18435.7	20971.2
55°	12923.5	13175.2	13803.6	14425.9	15330.2	16033.0	16210.2	16975.5	19378.2	22006.4
57.5°	11173.4	11582.2	12146.1	13404.8	14927.4	16639.2	18034.9	18685.4	20377.1	23112.0
60°	8172.6	8720.4	9421.2	11294.2	13517.6	16315.0	19587.6	21311.6	21796.9	24544.0
62.5°	5230.2	5568.6	6213.0	7977.2	10532.9	14653.5	20062.9	24594.3	24203.6	26892.2
65°	3580.8	3798.3	4388.4	5379.2	6809.1	10907.5	18790.1	27055.3	28026.1	30614.0
67.5°	2602.0	2767.2	3270.6	4138.7	4436.7	6454.7	14581.0	26942.6	31741.8	34448.5
70°	1897.1	2013.9	2436.9	3270.6	3413.6	3590.9	8833.2	22902.6	31661.2	35467.6
72.5°	1405.7	1486.3	1770.3	2537.6	2763.1	2424.8	4372.3	16645.3	27206.4	32080.1
75°	1017.0	1077.5	1286.9	1941.4	2211.3	1846.8	2181.1	9727.4	18977.4	22566.3
77.5°	777.4	823.7	960.7	1421.8	1770.3	1385.6	1353.4	4475.0	8998.3	9042.6
80°	624.3	654.5	729.0	1000.9	1357.4	1037.2	882.1	1806.5	2843.7	2406.7
82.5°	459.2	509.5	616.3	702.9	970.7	715.0	537.7	912.3	1081.5	930.4
85°	261.8	296.0	372.6	503.5	620.3	437.0	308.1	404.8	503.5	412.9
87.5°	92.6	120.8	130.9	197.4	269.9	181.3	118.8	116.8	165.1	122.9
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°
5564.5	0°	5564.5	5564.5	5564.5	5564.5	5564.5	5564.5	5564.5	5564.5	5564.5	5564.5
5624.9	2.5°	5604.8	5594.7	5554.5	5500.1	5443.7	5389.3	5371.2	5332.9	5306.7	5292.6
5755.9	5°	5717.6	5685.4	5590.7	5469.9	5343.0	5206.0	5109.4	5020.8	4956.3	4895.9
5935.1	7.5°	5878.7	5822.3	5659.2	5447.7	5222.2	4994.6	4825.4	4696.5	4609.9	4553.5
6144.5	10°	6066.0	5979.4	5729.7	5413.5	5065.1	4738.8	4539.4	4428.7	4374.3	4344.1
6384.2	12.5°	6281.5	6158.6	5802.2	5334.9	4825.4	4452.8	4315.9	4283.7	4285.7	4287.7
6686.3	15°	6547.3	6376.2	5860.6	5163.8	4513.3	4233.3	4209.1	4261.5	4315.9	4342.1
7028.7	17.5°	6847.4	6605.7	5870.7	4881.8	4207.1	4092.3	4168.9	4281.6	4364.2	4400.5
7411.3	20°	7169.6	6839.4	5798.1	4483.0	3955.4	3977.5	4114.5	4259.5	4350.1	4396.4
7848.3	22.5°	7538.2	7089.1	5624.9	4064.1	3750.0	3852.7	4013.8	4154.8	4249.4	4295.7
8361.9	25°	7959.1	7369.0	5353.1	3711.7	3572.7	3711.7	3872.8	3989.6	4066.2	4108.4
8935.9	27.5°	8426.3	7661.0	4990.6	3431.8	3417.7	3566.7	3699.6	3790.2	3830.5	3862.7
9546.1	30°	8895.6	7926.9	4551.5	3220.3	3282.7	3423.7	3518.4	3558.6	3570.7	3576.8
10226.8	32.5°	9403.1	8156.5	4090.3	3045.1	3153.8	3284.7	3341.1	3359.3	3302.9	3264.6
11052.5	35°	10017.4	8402.2	3639.2	2906.1	3027.0	3139.7	3157.9	3141.8	3075.3	2996.8
12087.7	37.5°	10776.6	8708.3	3278.7	2807.4	2908.1	2982.7	2960.5	2956.5	2962.5	2869.9
13332.3	40°	11707.1	9107.1	3014.9	2730.9	2811.5	2827.6	2765.1	2799.4	2829.6	2688.6
14697.8	42.5°	12740.2	9588.4	2847.7	2678.5	2730.9	2692.6	2596.0	2634.2	2630.2	2444.9
16069.3	45°	13793.5	10112.0	2789.3	2640.3	2656.4	2579.9	2473.1	2483.2	2398.6	2231.5
17384.4	47.5°	14840.8	10673.9	2825.6	2608.1	2563.8	2477.2	2394.6	2350.3	2225.4	2100.5
18645.1	50°	15867.9	11264.0	2958.5	2543.6	2436.9	2386.5	2326.1	2247.6	2114.6	2007.9
19837.4	52.5°	16820.5	11858.1	3107.5	2436.9	2277.8	2308.0	2269.7	2179.1	2048.2	1939.4
20965.2	55°	17722.7	12452.2	3165.9	2289.9	2128.7	2239.5	2217.4	2050.2	1893.1	1804.5
22145.3	57.5°	18705.5	13167.2	3101.5	2102.6	2007.9	2161.0	2076.4	1891.1	1800.5	1734.0
23682.0	60°	20067.0	14288.9	2962.5	1871.0	1893.1	2044.2	1899.2	1822.6	1723.9	1649.4
25985.9	62.5°	22328.6	16381.4	2739.0	1641.4	1758.2	1871.0	1814.6	1738.0	1637.3	1564.8
29925.2	65°	25671.8	19289.6	2318.1	1462.1	1607.1	1701.8	1723.9	1647.4	1542.7	1466.2
33377.1	67.5°	28491.3	21114.2	1754.1	1313.1	1452.1	1564.8	1627.3	1552.8	1442.0	1367.5
34184.7	70°	28336.2	19789.0	1339.3	1166.1	1315.1	1429.9	1510.5	1452.1	1333.2	1262.7
31051.0	72.5°	25168.3	16554.6	1083.5	1017.0	1176.1	1288.9	1385.6	1341.3	1220.5	1152.0
22747.5	75°	18490.0	11751.4	866.0	866.0	1002.9	1141.9	1248.6	1220.5	1109.7	1061.3
9550.1	77.5°	7794.0	4930.1	678.7	719.0	833.8	980.8	1113.7	1123.8	1027.1	1087.5
2525.5	80°	2072.3	1359.4	517.6	565.9	654.5	809.6	968.7	964.7	860.0	803.6
938.5	82.5°	789.5	535.7	368.6	398.8	473.3	620.3	767.3	791.5	686.8	594.1
368.6	85°	304.1	229.6	227.6	239.7	275.9	410.8	580.0	600.2	517.6	439.0
102.7	87.5°	78.5	68.5	84.6	80.6	126.9	219.5	332.3	344.4	316.2	183.3
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>
5564.5
5308.8
4920.1
4565.6
4352.1
4291.7
4340.1
4408.5
4408.5
4307.8
4120.5
3874.8
3590.9
3276.7
3000.8
2875.9
2692.6
2442.9
2237.5
2100.5
1999.8
1941.4
1796.4
1728.0
1645.4
1564.8
1470.2
1369.5
1268.8
1152.0
1047.3
986.8
747.2
594.1
453.1
261.8
0.0

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