

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: P942775

Luminaire Tested: **GALN-SB6D-940-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942775
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-940-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44307 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

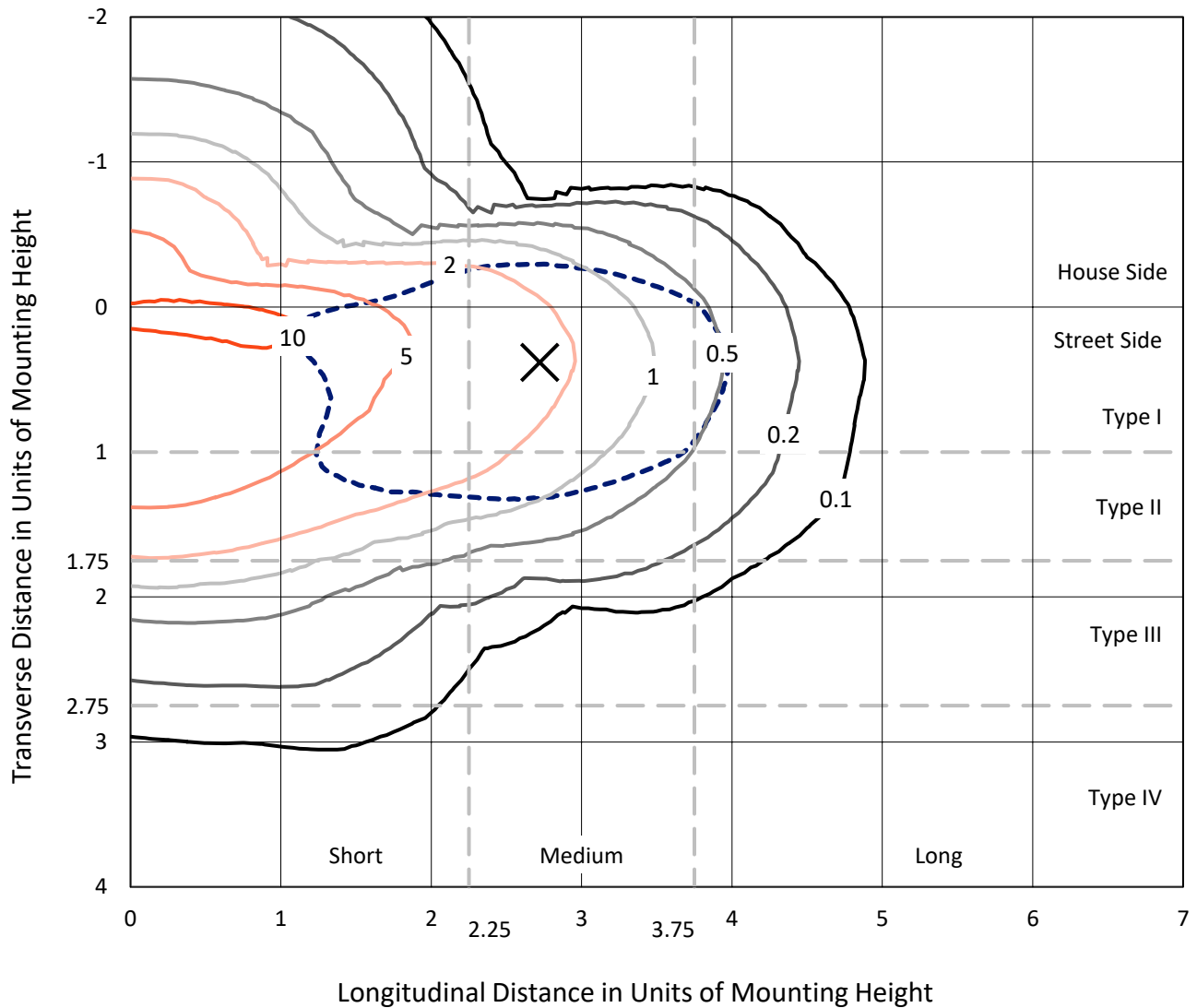
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

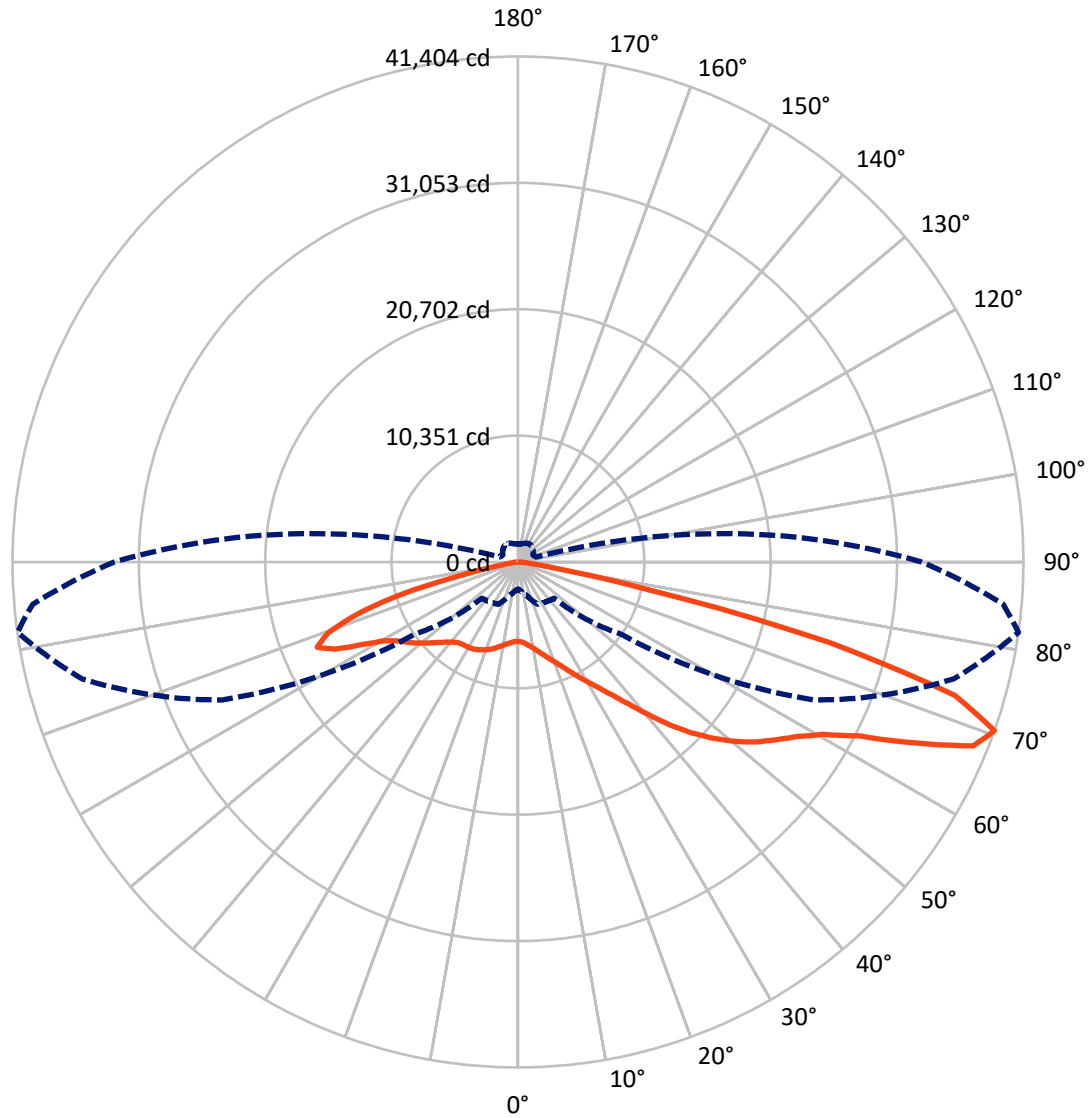
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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	10922.8	0.0	10922.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	33384.2	0.0	33384.2
	% Fixture	75.3	0.0	75.3
Total	Lumens	44307.0	0.0	44307.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.3	1.4
10°-20°	1762.1	4.0
20°-30°	2947.9	6.7
30°-40°	4605.4	10.4
40°-50°	7334.6	16.6
50°-60°	10207.0	23.0
60°-70°	10676.9	24.1
70°-80°	5580.3	12.6
80°-90°	579.5	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°	44307.0	100.0
0°-180°	44307.0	100.0

Coefficient of Utilization



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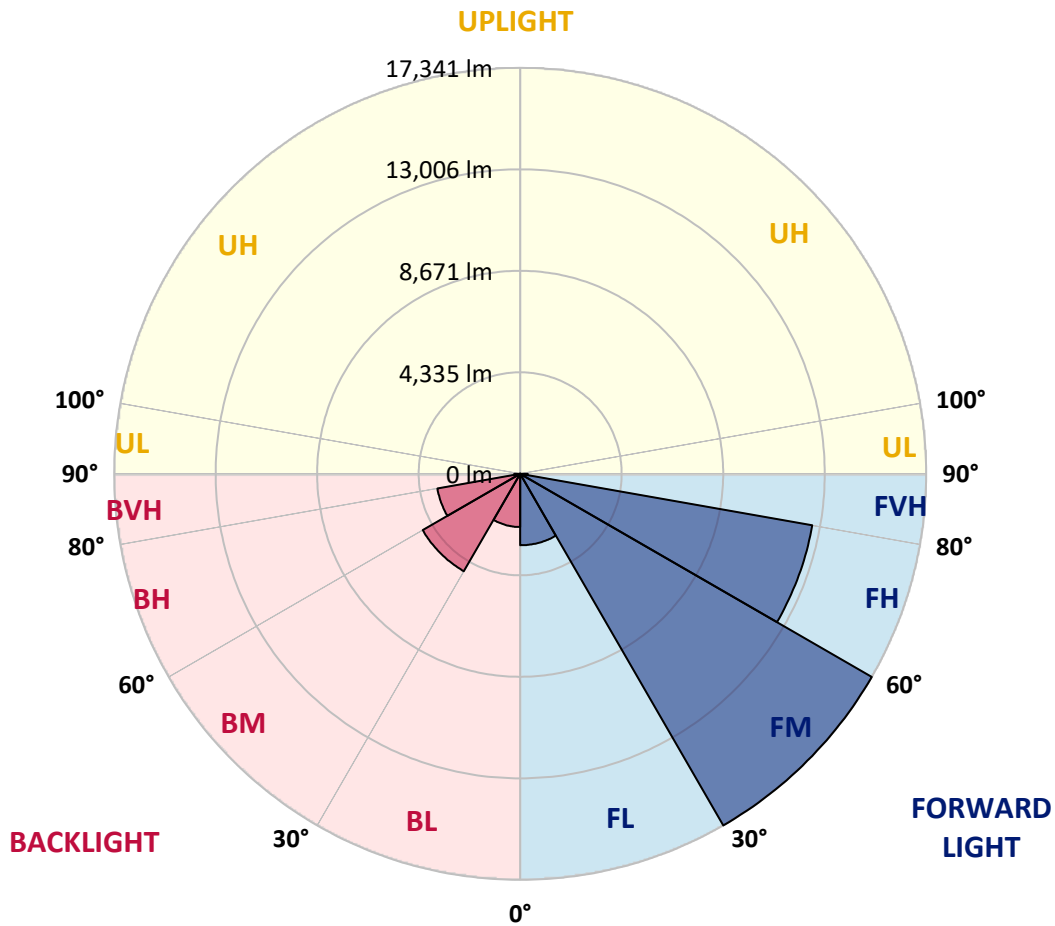
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3051.0	6.9			
FM (30°-60°)	17341.3	39.1			
FH (60°-80°)	12667.5	28.6			G5
FVH (80°-90°)	324.4	0.7			G3/500
BL (0°-30°)	2272.3	5.1	B3/2500		
BM (30°-60°)	4805.6	10.8	B3/5000		
BH (60°-80°)	3589.8	8.1	B4/5000		G4/5000
BVH (80°-90°)	255.1	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°	6496.0	6496.0	6496.0	6496.0	6496.0	6496.0	6496.0	6496.0	6496.0	6496.0
2.5°	6651.1	6688.7	6677.0	6665.2	6665.2	6648.8	6646.4	6622.9	6604.1	6573.5
5°	6735.8	6775.7	6771.0	6780.4	6811.0	6818.1	6825.1	6811.0	6773.4	6735.8
7.5°	6660.5	6705.2	6719.3	6775.7	6869.8	6954.4	7017.9	7043.8	7008.5	6954.4
10°	6406.6	6456.0	6505.4	6639.4	6806.3	7006.1	7175.4	7276.5	7269.5	7217.7
12.5°	5891.7	5943.5	6049.3	6310.2	6615.9	6968.5	7283.6	7495.2	7568.0	7530.4
15°	5480.3	5525.0	5604.9	5872.9	6270.3	6806.3	7323.5	7735.0	7920.7	7899.5
17.5°	5468.5	5487.4	5536.7	5663.7	5969.3	6552.4	7281.2	7970.1	8325.1	8322.7
20°	5675.4	5682.5	5710.7	5736.6	5910.5	6359.6	7173.1	8165.2	8778.8	8778.8
22.5°	5962.3	5957.6	5985.8	5962.3	6046.9	6343.1	7104.9	8336.8	9284.3	9321.9
25°	6392.5	6369.0	6362.0	6307.9	6324.3	6496.0	7180.1	8532.0	9883.8	9961.4
27.5°	6966.2	6928.6	6902.7	6778.1	6735.8	6811.0	7410.5	8767.1	10551.5	10685.5
30°	7713.8	7645.6	7608.0	7391.7	7238.9	7250.6	7758.5	9079.8	11249.8	11466.1
32.5°	8734.2	8628.4	8527.3	8172.3	7892.5	7800.8	8207.5	9512.4	12006.8	12352.4
35°	9876.8	9792.1	9684.0	9136.2	8706.0	8494.4	8814.1	10116.6	12893.2	13441.0
37.5°	10977.1	10904.2	10955.9	10217.7	9662.8	9354.8	9608.8	10927.7	13986.4	14795.2
40°	12115.0	12058.6	12065.6	11360.3	10713.7	10368.1	10572.7	11945.7	15239.5	16405.6
42.5°	13351.6	13309.3	13168.2	12542.9	11816.4	11494.3	11682.4	13121.2	16584.3	18239.5
45°	14736.4	14710.5	14578.9	13861.8	13029.5	12667.5	12921.4	14419.0	17936.2	19965.1
47.5°	15933.1	15954.2	15937.8	15333.6	14470.7	13939.4	14242.7	15773.2	19194.0	21587.4
50°	16509.1	16619.6	16781.8	16593.7	16057.7	15517.0	15575.7	17080.4	20393.0	23108.5
52.5°	16208.2	16417.4	16859.4	17160.3	17367.2	17254.4	17096.9	18378.2	21521.5	24481.5
55°	15086.7	15380.6	16114.1	16840.6	17896.2	18716.7	18923.6	19817.0	22621.8	25690.0
57.5°	13043.6	13520.9	14179.2	15648.6	17426.0	19424.4	21053.7	21813.1	23788.0	26980.7
60°	9540.6	10180.1	10998.2	13184.7	15780.3	19045.9	22866.3	24878.8	25445.4	28652.3
62.5°	6105.7	6500.7	7253.0	9312.5	12296.0	17106.3	23421.2	28711.1	28255.0	31393.6
65°	4180.2	4434.1	5122.9	6279.7	7948.9	12733.3	21935.3	31584.0	32717.3	35738.4
67.5°	3037.6	3230.3	3818.1	4831.4	5179.4	7535.1	17021.6	31452.4	37055.0	40214.8
70°	2214.7	2351.1	2844.8	3818.1	3985.0	4191.9	10311.7	26736.2	36960.9	41404.4
72.5°	1641.0	1735.1	2066.6	2962.3	3225.6	2830.7	5104.1	19431.5	31760.4	37449.9
75°	1187.3	1257.8	1502.3	2266.4	2581.5	2155.9	2546.2	11355.6	22154.0	26343.6
77.5°	907.5	961.6	1121.5	1659.8	2066.6	1617.5	1579.9	5224.0	10504.5	10556.2
80°	728.8	764.1	851.1	1168.5	1584.6	1210.8	1029.8	2108.9	3319.7	2809.5
82.5°	536.0	594.8	719.4	820.5	1133.2	834.6	627.7	1065.0	1262.5	1086.2
85°	305.6	345.6	434.9	587.8	724.1	510.2	359.7	472.6	587.8	482.0
87.5°	108.1	141.1	152.8	230.4	315.0	211.6	138.7	136.4	192.8	143.4
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°
6496.0	0°	6496.0	6496.0	6496.0	6496.0	6496.0	6496.0	6496.0	6496.0	6496.0	6496.0
6566.5	2.5°	6543.0	6531.2	6484.2	6420.7	6354.9	6291.4	6270.3	6225.6	6195.0	6178.6
6719.3	5°	6674.6	6637.0	6526.5	6385.5	6237.3	6077.5	5964.6	5861.2	5785.9	5715.4
6928.6	7.5°	6862.7	6796.9	6606.5	6359.6	6096.3	5830.6	5633.1	5482.7	5381.6	5315.7
7173.1	10°	7081.4	6980.3	6688.7	6319.6	5912.9	5532.0	5299.3	5170.0	5106.5	5071.2
7452.8	12.5°	7332.9	7189.5	6773.4	6227.9	5633.1	5198.2	5038.3	5000.7	5003.0	5005.4
7805.5	15°	7643.3	7443.4	6841.6	6028.1	5268.7	4941.9	4913.7	4974.8	5038.3	5068.9
8205.2	17.5°	7993.6	7711.5	6853.3	5699.0	4911.4	4777.3	4866.7	4998.3	5094.7	5137.1
8651.9	20°	8369.7	7984.2	6768.7	5233.4	4617.5	4643.3	4803.2	4972.5	5078.3	5132.3
9162.1	22.5°	8800.0	8275.7	6566.5	4744.4	4377.7	4497.6	4685.6	4850.2	4960.7	5014.8
9761.6	25°	9291.4	8602.5	6249.1	4333.0	4170.8	4333.0	4521.1	4657.4	4746.8	4796.1
10431.6	27.5°	9836.8	8943.4	5825.9	4006.2	3989.7	4163.7	4318.9	4424.7	4471.7	4509.3
11144.0	30°	10384.6	9253.7	5313.4	3759.3	3832.2	3996.8	4107.3	4154.3	4168.4	4175.5
11938.6	32.5°	10977.1	9521.8	4775.0	3554.8	3681.7	3834.6	3900.4	3921.6	3855.7	3811.1
12902.6	35°	11694.1	9808.6	4248.4	3392.6	3533.6	3665.3	3686.5	3667.6	3590.1	3498.4
14111.0	37.5°	12580.5	10166.0	3827.5	3277.4	3394.9	3481.9	3456.0	3451.3	3458.4	3350.3
15564.0	40°	13666.7	10631.5	3519.5	3188.0	3282.1	3300.9	3228.0	3268.0	3303.2	3138.7
17158.0	42.5°	14872.8	11193.4	3324.4	3126.9	3188.0	3143.4	3030.5	3075.2	3070.5	2854.2
18759.1	45°	16102.4	11804.6	3256.2	3082.2	3101.0	3011.7	2887.1	2898.8	2800.1	2605.0
20294.3	47.5°	17324.9	12460.6	3298.5	3044.6	2992.9	2891.8	2795.4	2743.7	2597.9	2452.1
21766.1	50°	18523.9	13149.4	3453.7	2969.4	2844.8	2786.0	2715.5	2623.8	2468.6	2344.0
23157.9	52.5°	19636.0	13843.0	3627.7	2844.8	2659.0	2694.3	2649.6	2543.8	2391.0	2264.1
24474.5	55°	20689.3	14536.6	3695.9	2673.1	2485.1	2614.4	2588.5	2393.4	2210.0	2106.5
25852.2	57.5°	21836.6	15371.2	3620.6	2454.5	2344.0	2522.7	2423.9	2207.6	2101.8	2024.3
27646.0	60°	23425.9	16680.7	3458.4	2184.1	2210.0	2386.3	2217.0	2127.7	2012.5	1925.5
30335.6	62.5°	26066.1	19123.5	3197.4	1916.1	2052.5	2184.1	2118.3	2029.0	1911.4	1826.8
34934.3	65°	29968.9	22518.4	2706.1	1706.9	1876.1	1986.6	2012.5	1923.2	1800.9	1711.6
38964.0	67.5°	33260.4	24648.4	2047.8	1532.9	1695.1	1826.8	1899.7	1812.7	1683.4	1596.4
39906.8	70°	33079.3	23101.4	1563.5	1361.3	1535.2	1669.2	1763.3	1695.1	1556.4	1474.1
36248.5	72.5°	29381.1	19325.7	1264.9	1187.3	1373.0	1504.7	1617.5	1565.8	1424.7	1344.8
26555.1	75°	21585.0	13718.4	1011.0	1011.0	1170.8	1333.0	1457.7	1424.7	1295.4	1239.0
11148.7	77.5°	9098.6	5755.4	792.3	839.3	973.3	1145.0	1300.1	1311.9	1199.0	1269.6
2948.2	80°	2419.2	1587.0	604.2	660.6	764.1	945.1	1130.9	1126.2	1003.9	938.1
1095.6	82.5°	921.6	625.4	430.2	465.5	552.5	724.1	895.8	924.0	801.7	693.6
430.2	85°	355.0	268.0	265.7	279.8	322.1	479.6	677.1	700.6	604.2	512.5
119.9	87.5°	91.7	79.9	98.7	94.0	148.1	256.3	387.9	402.0	369.1	213.9
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>
6496.0
6197.4
5743.6
5329.8
5080.6
5010.1
5066.5
5146.5
5146.5
5028.9
4810.3
4523.4
4191.9
3825.2
3503.1
3357.3
3143.4
2851.8
2612.0
2452.1
2334.6
2266.4
2097.1
2017.2
1920.8
1826.8
1716.3
1598.7
<i>1481.2</i>
1344.8
1222.5
1152.0
872.2
693.6
529.0
305.6
0.0

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