

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: P953374

Luminaire Tested: **GALN-SB6D-940-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
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-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45905 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

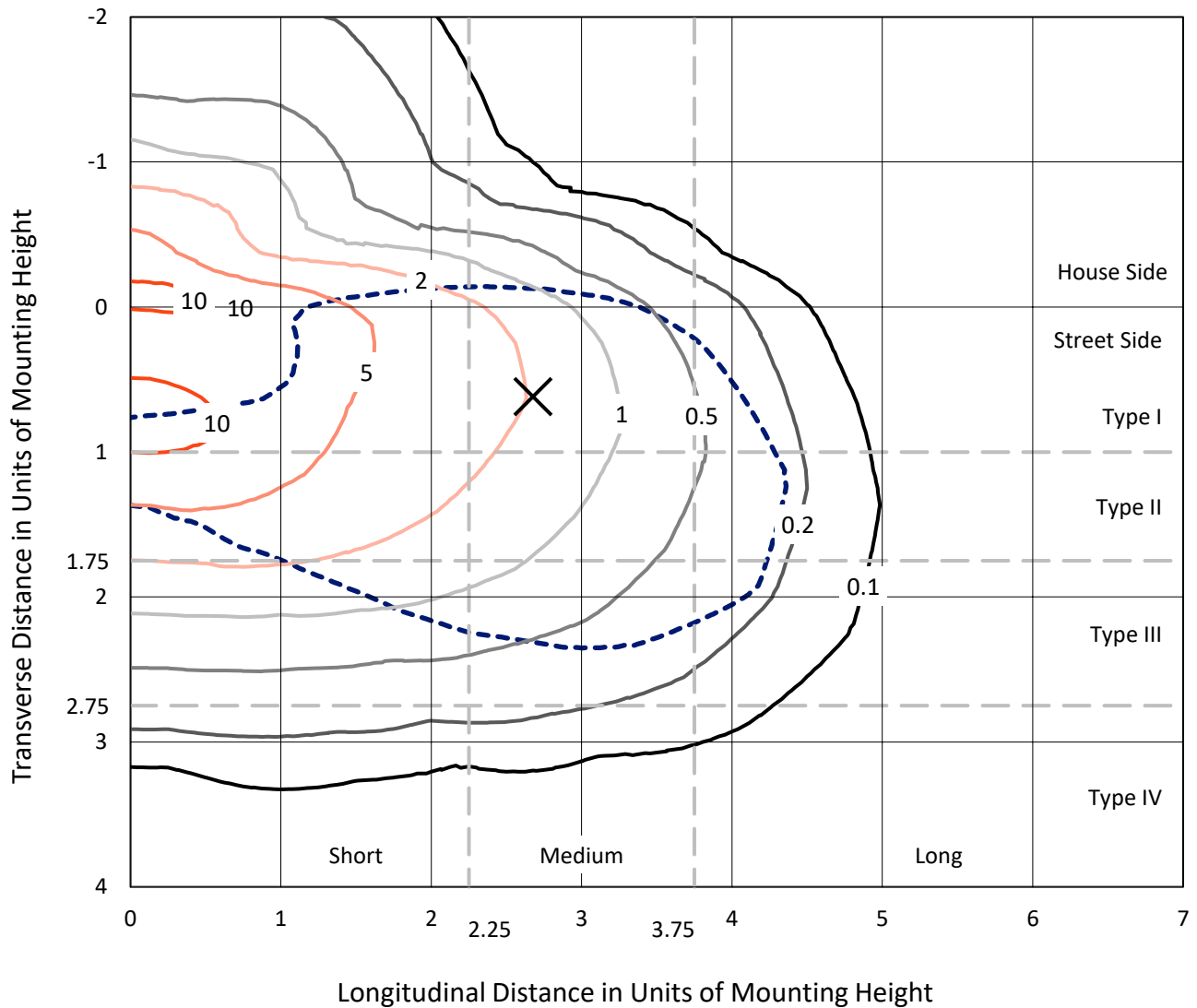
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

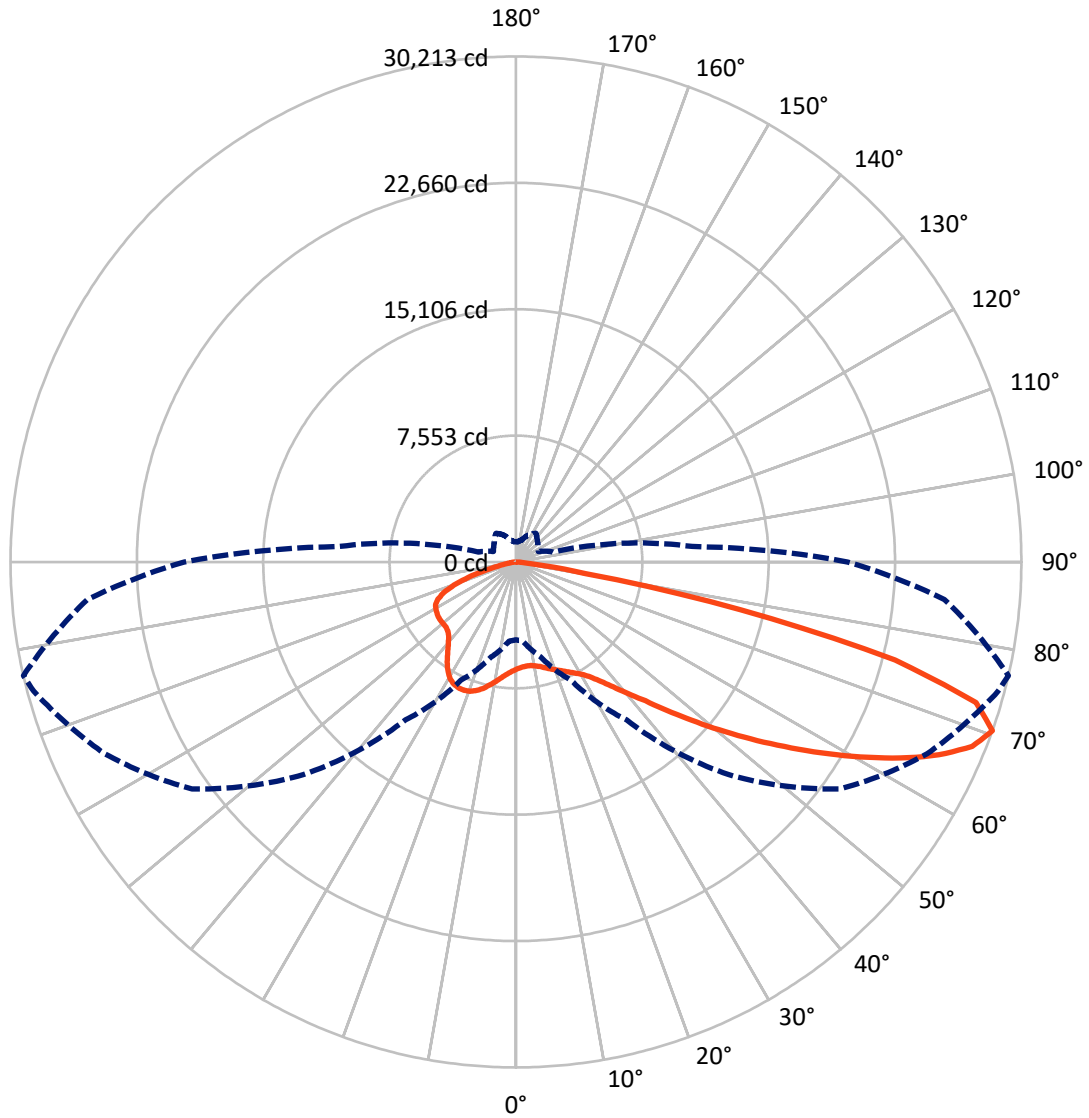
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10052.5	0.0	10052.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	35852.5	0.0	35852.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	45905.0	0.0	45905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.8	1.3
10°-20°	1762.8	3.8
20°-30°	3014.6	6.6
30°-40°	4847.8	10.6
40°-50°	7568.7	16.5
50°-60°	10110.0	22.0
60°-70°	10775.7	23.5
70°-80°	6633.4	14.5
80°-90°	581.3	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°	45905.0	100.0
0°-180°	45905.0	100.0

Coefficient of Utilization



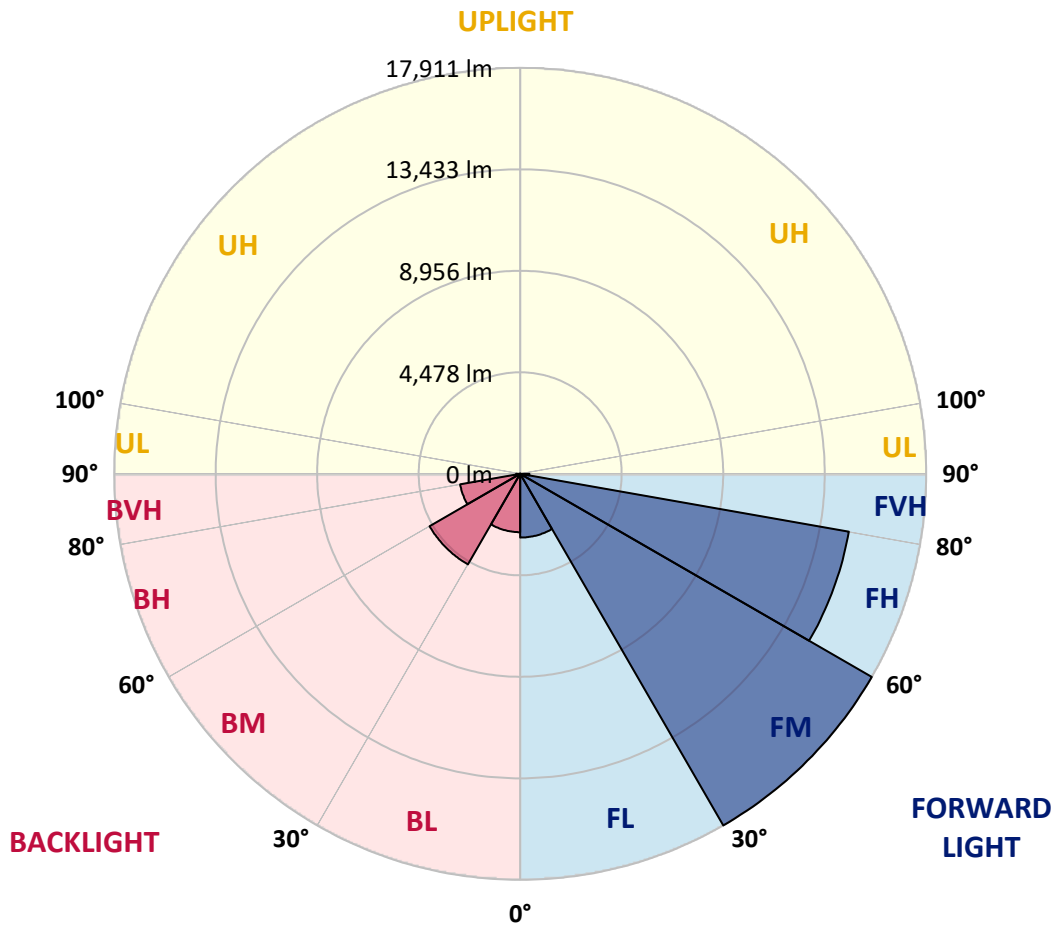
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2812.4	6.1			
FM (30°-60°)	17911.1	39.0			
FH (60°-80°)	14722.5	32.1			G5
FVH (80°-90°)	406.5	0.9			G3/500
BL (0°-30°)	2575.8	5.6	B4/5000		
BM (30°-60°)	4615.3	10.1	B3/5000		
BH (60°-80°)	2686.6	5.9	B4/5000		G4/5000
BVH (80°-90°)	174.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6404.2	6404.2	6404.2	6404.2	6404.2	6404.2	6404.2	6404.2	6404.2	6404.2
2.5°	5903.4	5901.0	5931.6	5941.0	5997.4	6037.4	6112.6	6192.6	6296.0	6307.8
5°	5562.5	5562.5	5597.8	5635.4	5708.3	5788.2	5903.4	6042.1	6220.8	6249.0
7.5°	5273.3	5292.1	5322.7	5395.6	5480.2	5595.4	5771.7	5969.2	6204.3	6249.0
10°	5040.6	5061.7	5099.4	5158.1	5285.1	5445.0	5675.4	5929.3	6244.3	6314.8
12.5°	4967.7	4988.9	5010.0	5054.7	5172.2	5360.3	5635.4	5948.1	6340.7	6411.2
15°	5137.0	5162.8	5146.4	5134.6	5195.7	5367.4	5654.2	6016.2	6460.6	6561.7
17.5°	5527.2	5536.6	5499.0	5388.5	5379.1	5470.8	5743.5	6110.3	6611.1	6721.6
20°	6157.3	6140.9	6063.3	5844.6	5720.0	5701.2	5896.3	6251.4	6766.2	6883.8
22.5°	7013.1	6994.3	6839.1	6493.5	6216.1	6032.7	6117.3	6434.7	6940.2	7071.9
25°	8080.4	8054.6	7826.5	7356.3	6926.1	6472.3	6418.3	6676.9	7154.1	7276.4
27.5°	9326.5	9305.3	9058.5	8437.8	7817.1	7074.2	6792.1	6961.4	7377.5	7516.2
30°	10666.6	10727.7	10290.4	9622.7	8837.5	7859.4	7295.2	7311.7	7666.7	7791.3
32.5°	12241.7	12347.5	11820.9	10974.5	9902.5	8712.9	7930.0	7800.7	8087.5	8190.9
35°	13802.8	13922.7	13485.4	12549.7	11315.4	9719.1	8593.0	8362.6	8647.0	8759.9
37.5°	15152.3	15312.2	15086.5	14273.0	12827.1	10932.2	9458.1	9023.2	9335.9	9476.9
40°	16217.3	16461.8	16445.4	15937.5	14609.2	12404.0	10556.1	9839.0	10191.7	10344.5
42.5°	17082.5	17294.1	17477.4	17451.6	16468.9	14075.5	11846.8	10899.3	11167.3	11343.6
45°	17679.6	17905.3	18300.3	18725.8	18258.0	15864.7	13325.6	12157.1	12401.6	12667.3
47.5°	18213.3	18469.6	18982.1	19656.8	19776.7	17660.8	14945.4	13621.8	13845.1	14120.2
50°	18260.3	18481.3	19276.0	20232.8	20855.9	19386.5	16685.2	15265.1	15474.4	15768.3
52.5°	17124.8	17472.7	18859.8	20216.4	21351.9	20830.0	18413.2	16974.3	17209.4	17562.1
55°	13292.6	13802.8	17639.7	19586.3	21175.6	21763.4	20056.5	18791.7	19092.6	19461.7
57.5°	11449.4	11672.8	14002.6	18439.0	20371.5	22005.5	21443.6	20627.8	21112.1	21516.5
60°	10290.4	10476.1	11853.8	16654.6	19313.6	21622.3	22515.7	22339.3	23176.3	23658.3
62.5°	9049.1	9225.4	10478.5	13906.3	17959.4	20985.2	23192.8	23919.2	25292.2	25818.9
65°	7817.1	7967.6	9169.0	11684.5	16238.5	20348.0	23543.1	25285.2	27250.6	27796.1
67.5°	6444.1	6568.7	7704.3	9857.8	14146.1	19475.8	23717.0	26359.6	28955.1	29423.0
70°	4650.3	4746.7	5919.9	7796.0	11520.0	17975.9	23646.5	27121.3	29839.1	30212.9
72.5°	2198.2	2285.2	3662.9	5061.7	8136.9	15055.9	22219.4	26517.1	28941.0	28755.3
75°	1173.2	1248.4	2104.2	2776.5	4297.7	10321.0	18182.8	22842.5	24302.4	23399.7
77.5°	794.6	853.4	1302.5	1666.9	1963.1	4899.5	11686.9	15815.3	15215.8	13725.2
80°	630.1	691.2	1067.4	1128.5	949.8	1770.3	4829.0	7321.1	5259.2	4206.0
82.5°	484.3	552.5	898.1	818.2	517.2	726.5	1405.9	2315.8	1347.1	1025.0
85°	296.2	369.1	705.3	521.9	291.5	331.5	477.3	644.2	411.4	343.2
87.5°	150.5	211.6	357.4	190.4	131.7	77.6	127.0	127.0	108.1	94.0
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°
6404.2	0°	6404.2	6404.2	6404.2	6404.2	6404.2	6404.2	6404.2	6404.2	6404.2	6404.2
6371.3	2.5°	6427.7	6474.7	6554.6	6629.9	6688.6	6745.1	6801.5	6832.1	6841.5	6879.1
6406.5	5°	6502.9	6589.9	6745.1	6890.8	6982.5	7038.9	7078.9	7102.4	7107.1	7118.9
6502.9	7.5°	6641.6	6780.3	6996.6	7142.4	7210.6	7205.9	7189.4	7130.6	7107.1	7086.0
6644.0	10°	6836.8	7020.1	7285.8	7386.9	7344.6	7231.7	7086.0	6914.3	6834.4	6756.8
6836.8	12.5°	7078.9	7311.7	7572.6	7567.9	7358.7	7069.5	6731.0	6467.6	6300.7	6180.8
7074.2	15°	7372.8	7640.8	7840.6	7680.8	7222.3	6702.7	6206.7	5863.4	5713.0	5581.3
7314.0	17.5°	7676.1	7962.9	8054.6	7645.5	6879.1	6159.7	5597.8	5327.4	5179.3	5108.8
7572.6	20°	7972.3	8256.8	8181.5	7443.3	6357.1	5543.7	5042.9	4894.8	4864.3	4880.7
7824.2	22.5°	8285.0	8538.9	8207.4	7053.0	5691.8	4913.6	4638.6	4643.3	4711.4	4760.8
8087.5	25°	8604.7	8776.3	8139.2	6488.8	4977.1	4450.5	4382.3	4457.5	4591.5	4687.9
8383.7	27.5°	8912.7	8987.9	7991.1	5790.6	4363.5	4119.0	4130.7	4285.9	4488.1	4622.1
8743.4	30°	9260.7	9176.0	7706.6	5005.3	3938.0	3834.5	3933.2	4114.3	4316.5	4436.4
9197.2	32.5°	9653.3	9338.2	7255.2	4278.8	3637.0	3606.5	3768.7	3886.2	3975.6	4010.8
9799.0	35°	10142.3	9566.3	6676.9	3768.7	3366.7	3439.5	3594.7	3535.9	3500.7	3481.9
10607.8	37.5°	10777.1	9874.3	5999.8	3437.2	3148.0	3319.6	3383.1	3199.7	3061.0	2992.8
11588.2	40°	11541.1	10325.7	5348.6	3180.9	3009.3	3216.2	3105.7	2884.7	2708.4	2612.0
12690.8	42.5°	12389.9	10798.2	4800.8	2988.1	2931.7	3131.6	2901.2	2637.8	2353.4	2322.8
14005.0	45°	13280.9	11284.9	4427.0	2840.0	2894.1	3058.7	2783.6	2358.1	2155.9	2280.5
15323.9	47.5°	14171.9	11731.6	4201.3	2729.5	2875.3	2976.4	2680.2	2202.9	2059.5	2240.5
16736.9	50°	15164.1	12131.2	4100.2	2649.6	2854.1	2943.5	2525.0	2162.9	1958.4	2078.3
18199.2	52.5°	16149.1	12441.6	4024.9	2569.7	2823.6	2917.6	2449.8	2115.9	1836.1	1843.2
19670.9	55°	17131.9	12643.8	3942.7	2463.9	2755.4	2861.2	2442.7	2064.2	1744.5	1711.5
21227.3	57.5°	18180.4	12759.0	3841.6	2346.3	2637.8	2717.8	2435.7	2024.2	1716.2	1662.2
22819.0	60°	19247.8	12928.2	3709.9	2202.9	2480.3	2546.1	2419.2	2010.1	1699.8	1608.1
24318.9	62.5°	20204.6	12987.0	3552.4	2066.5	2278.1	2376.9	2383.9	1998.4	1655.1	1497.6
25564.9	65°	20832.3	12733.1	3277.3	1911.4	2059.5	2202.9	2315.8	1958.4	1575.2	1417.7
26180.9	67.5°	20806.5	12009.0	2847.1	1711.5	1847.9	2010.1	2217.0	1890.2	1478.8	1318.9
25715.4	70°	19837.9	10579.6	2301.6	1478.8	1615.1	1803.2	2090.1	1789.1	1363.6	1210.8
22866.0	72.5°	17014.3	8280.3	1671.6	1206.1	1344.8	1589.3	1925.5	1666.9	1246.0	1114.4
16899.1	75°	12154.8	5240.4	1133.2	926.3	1046.2	1347.1	1720.9	1523.5	1137.9	1119.1
8463.7	77.5°	6209.0	2503.8	750.0	677.1	728.8	1062.7	1445.9	1361.2	1154.3	923.9
2407.4	80°	2019.5	923.9	472.6	460.8	484.3	707.7	1119.1	1116.7	874.6	627.7
583.1	82.5°	644.2	397.3	308.0	296.2	284.5	444.3	780.5	884.0	590.1	397.3
209.2	85°	256.3	237.5	181.0	166.9	119.9	209.2	409.1	587.8	439.6	286.8
54.1	87.5°	94.0	94.0	49.4	35.3	25.9	70.5	110.5	176.3	251.6	148.1
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>
6404.2
6900.2
7137.7
7090.7
6733.3
6152.6
5567.2
5129.9
4873.7
4772.6
4713.8
4655.0
4464.6
4029.6
3500.7
3009.3
2619.0
2353.4
2346.3
2325.2
2167.6
1892.6
1735.0
1669.2
1615.1
1497.6
1417.7
1326.0
1224.9
1107.3
1055.6
822.9
554.8
395.0
293.9
145.8
0.0

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