

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: P942225

Luminaire Tested: **GALN-SB6A-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942225
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-SB6A-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25781 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

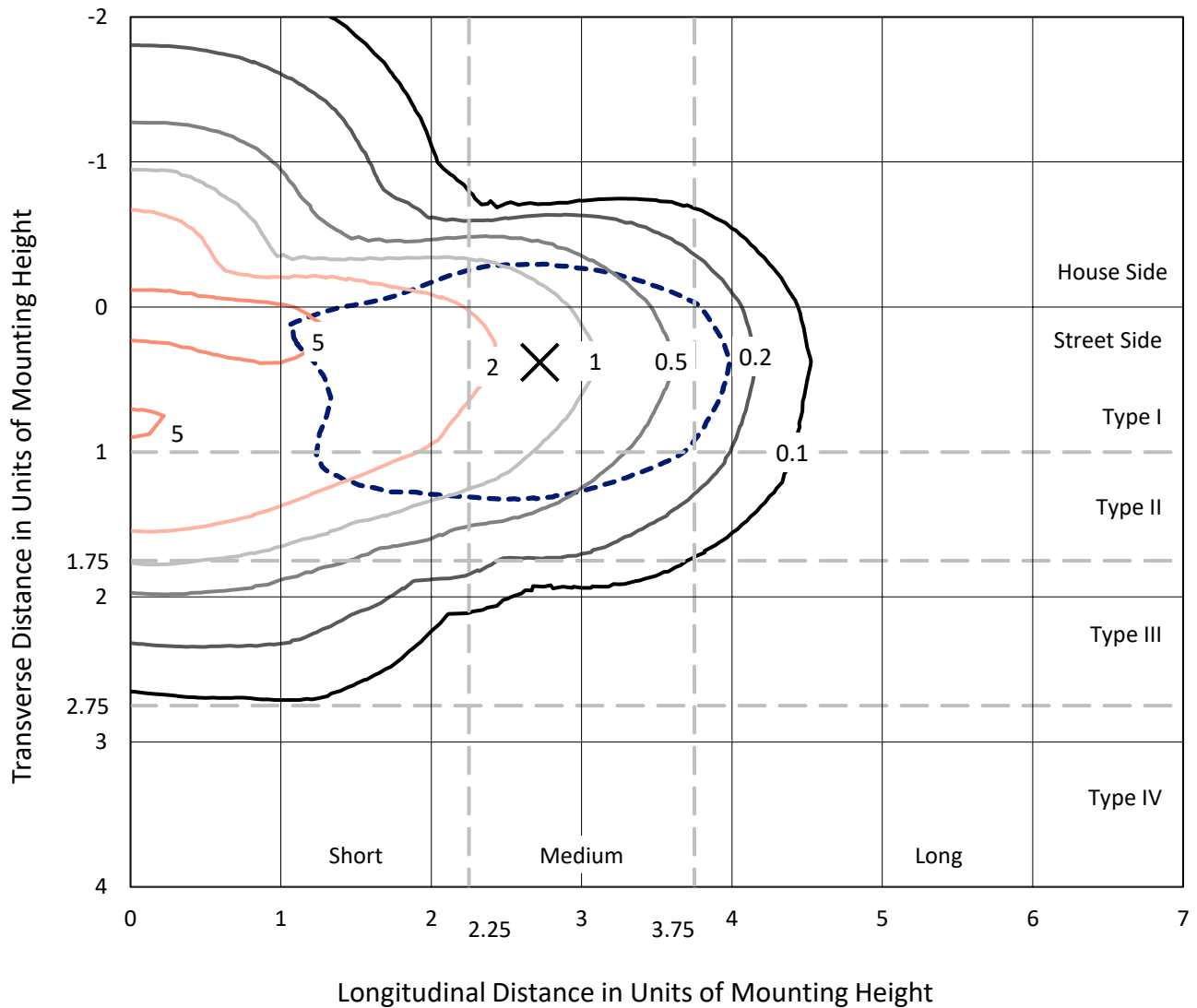
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

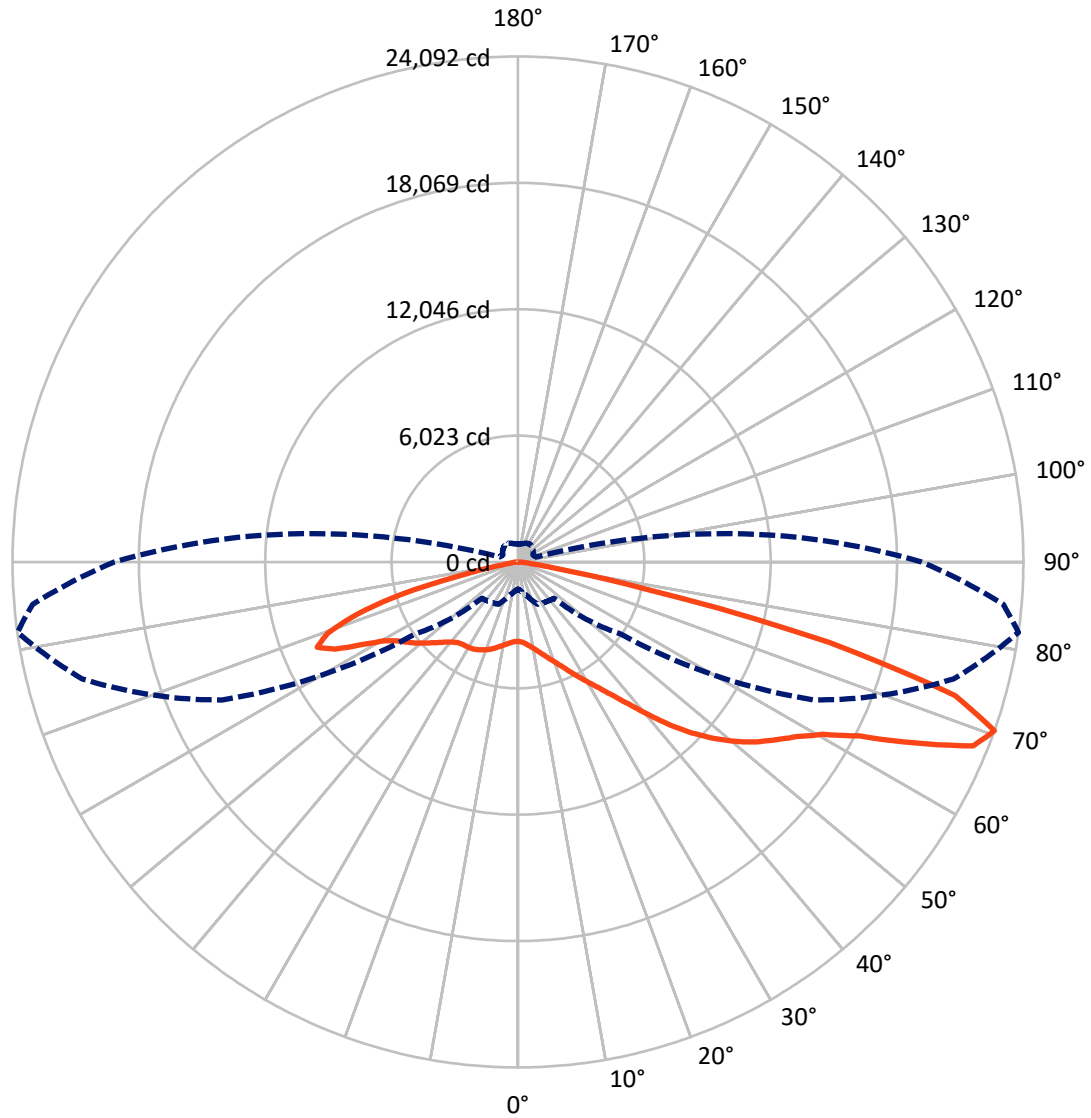
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	6355.6	0.0	6355.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	19425.4	0.0	19425.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	25781.0	0.0	25781.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.9	1.4
10°-20°	1025.3	4.0
20°-30°	1715.3	6.7
30°-40°	2679.7	10.4
40°-50°	4267.8	16.6
50°-60°	5939.1	23.0
60°-70°	6212.6	24.1
70°-80°	3247.0	12.6
80°-90°	337.2	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°	25781.0	100.0
0°-180°	25781.0	100.0

Coefficient of Utilization



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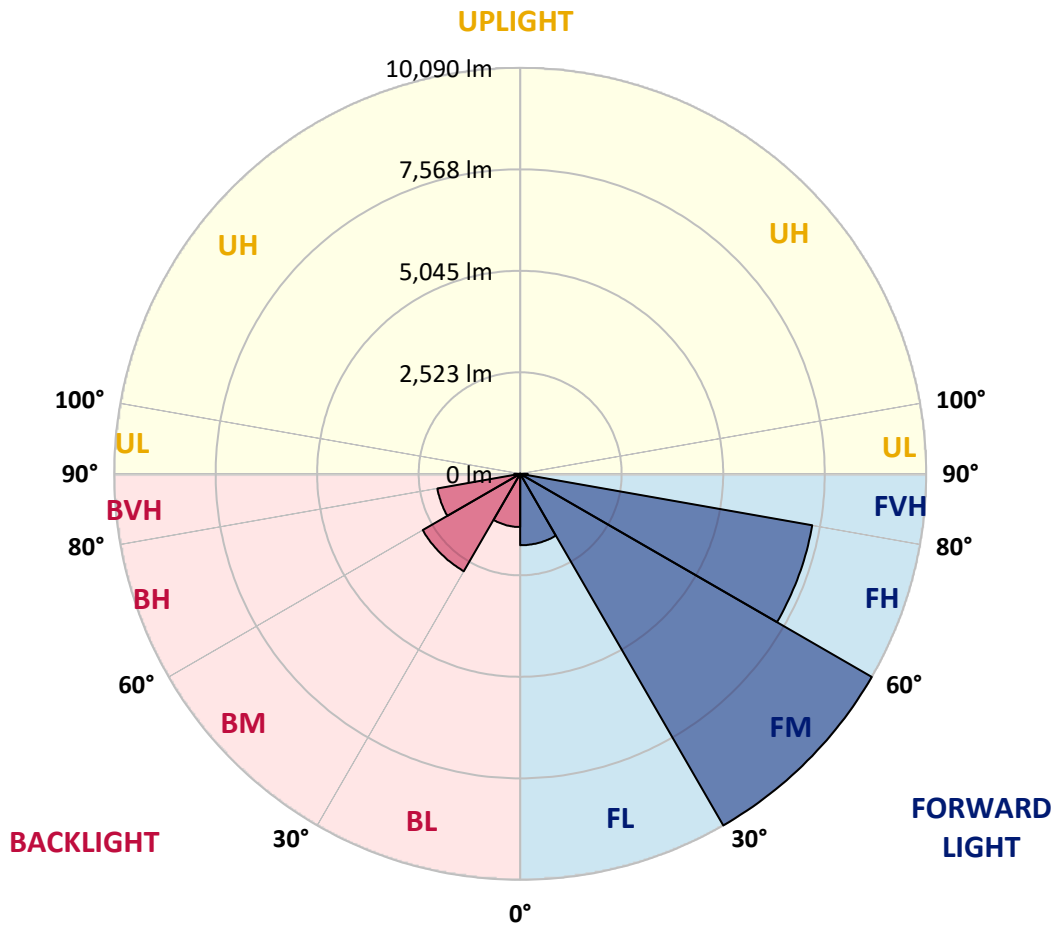
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1775.3	6.9			
FM (30°-60°)	10090.4	39.1			
FH (60°-80°)	7370.9	28.6			G3/7500
FVH (80°-90°)	188.7	0.7			G2/225
BL (0°-30°)	1322.2	5.1	B3/2500		
BM (30°-60°)	2796.2	10.8	B3/5000		
BH (60°-80°)	2088.8	8.1	B3/2500		G3/2500
BVH (80°-90°)	148.4	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3779.8	3779.8	3779.8	3779.8	3779.8	3779.8	3779.8	3779.8	3779.8	3779.8
2.5°	3870.1	3892.0	3885.2	3878.3	3878.3	3868.7	3867.4	3853.7	3842.7	3825.0
5°	3919.4	3942.6	3939.9	3945.3	3963.1	3967.2	3971.3	3963.1	3941.2	3919.4
7.5°	3875.6	3901.6	3909.8	3942.6	3997.3	4046.6	4083.5	4098.6	4078.0	4046.6
10°	3727.8	3756.6	3785.3	3863.3	3960.4	4076.7	4175.2	4234.0	4229.9	4199.8
12.5°	3428.2	3458.3	3519.9	3671.7	3849.6	4054.8	4238.1	4361.2	4403.6	4381.7
15°	3188.8	3214.8	3261.3	3417.3	3648.5	3960.4	4261.4	4500.8	4608.8	4596.5
17.5°	3182.0	3192.9	3221.7	3295.5	3473.4	3812.6	4236.7	4637.6	4844.1	4842.8
20°	3302.4	3306.5	3322.9	3337.9	3439.2	3700.5	4173.8	4751.1	5108.2	5108.2
22.5°	3469.3	3466.5	3483.0	3469.3	3518.5	3690.9	4134.1	4851.0	5402.3	5424.2
25°	3719.6	3705.9	3701.8	3670.4	3680.0	3779.8	4177.9	4964.5	5751.1	5796.3
27.5°	4053.4	4031.5	4016.5	3944.0	3919.4	3963.1	4312.0	5101.3	6139.6	6217.6
30°	4488.4	4448.8	4426.9	4301.0	4212.1	4218.9	4514.4	5283.3	6545.9	6671.8
32.5°	5082.2	5020.6	4961.8	4755.2	4592.4	4539.1	4775.7	5535.0	6986.4	7187.5
35°	5747.0	5697.8	5634.8	5316.1	5065.7	4942.6	5128.7	5886.6	7502.2	7820.9
37.5°	6387.2	6344.8	6374.9	5945.4	5622.5	5443.3	5591.1	6358.5	8138.3	8608.9
40°	7049.4	7016.5	7020.6	6610.2	6234.0	6032.9	6151.9	6950.9	8867.5	9546.0
42.5°	7768.9	7744.3	7662.2	7298.3	6875.6	6688.2	6797.7	7634.9	9650.0	10613.0
45°	8574.7	8559.7	8483.0	8065.8	7581.5	7370.8	7518.6	8390.0	10436.6	11617.2
47.5°	9271.0	9283.3	9273.8	8922.2	8420.1	8110.9	8287.4	9178.0	11168.4	12561.1
50°	9606.2	9670.5	9764.9	9655.4	9343.5	9028.9	9063.1	9938.6	11866.1	13446.2
52.5°	9431.1	9552.8	9810.0	9985.1	10105.5	10039.8	9948.2	10693.7	12522.8	14245.1
55°	8778.5	8949.5	9376.4	9799.1	10413.3	10890.7	11011.1	11531.0	13163.0	14948.3
57.5°	7589.7	7867.4	8250.5	9105.5	10139.7	11302.5	12250.5	12692.4	13841.5	15699.3
60°	5551.4	5923.5	6399.6	7671.8	9182.1	11082.3	13305.3	14476.3	14806.0	16672.0
62.5°	3552.7	3782.6	4220.3	5418.7	7154.7	9953.7	13628.1	16706.2	16440.8	18267.1
65°	2432.3	2580.1	2980.9	3654.0	4625.2	7409.2	12763.6	18377.9	19037.3	20795.1
67.5°	1767.5	1879.6	2221.7	2811.3	3013.7	4384.5	9904.4	18301.3	21561.2	23399.8
70°	1288.7	1368.0	1655.3	2221.7	2318.8	2439.2	6000.1	15557.0	21506.5	24092.1
72.5°	954.9	1009.6	1202.5	1723.7	1876.9	1647.1	2970.0	11306.6	18480.5	21791.1
75°	690.8	731.9	874.2	1318.8	1502.1	1254.5	1481.6	6607.5	12890.8	15328.6
77.5°	528.1	559.5	652.5	965.8	1202.5	941.2	919.3	3039.7	6112.3	6142.4
80°	424.1	444.6	495.2	679.9	922.0	704.5	599.2	1227.1	1931.6	1634.8
82.5°	311.9	346.1	418.6	477.4	659.4	485.6	365.3	619.7	734.6	632.0
85°	177.8	201.1	253.1	342.0	421.3	296.9	209.3	275.0	342.0	280.4
87.5°	62.9	82.1	88.9	134.1	183.3	123.1	80.7	79.3	112.2	83.4
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°
3779.8	0°	3779.8	3779.8	3779.8	3779.8	3779.8	3779.8	3779.8	3779.8	3779.8	3779.8
3820.9	2.5°	3807.2	3800.3	3773.0	3736.0	3697.7	3660.8	3648.5	3622.5	3604.7	3595.1
3909.8	5°	3883.8	3861.9	3797.6	3715.5	3629.3	3536.3	3470.6	3410.5	3366.7	3325.6
4031.5	7.5°	3993.2	3954.9	3844.1	3700.5	3547.3	3392.7	3277.8	3190.2	3131.4	3093.1
4173.8	10°	4120.5	4061.6	3892.0	3677.2	3440.6	3218.9	3083.5	3008.3	2971.3	2950.8
4336.6	12.5°	4266.8	4183.4	3941.2	3623.9	3277.8	3024.7	2931.6	2909.8	2911.1	2912.5
4541.8	15°	4447.4	4331.1	3980.9	3507.6	3065.7	2875.6	2859.1	2894.7	2931.6	2949.4
4774.4	17.5°	4651.2	4487.1	3987.8	3316.1	2857.8	2779.8	2831.8	2908.4	2964.5	2989.1
5034.3	20°	4870.1	4645.8	3938.5	3045.2	2686.8	2701.8	2794.8	2893.3	2954.9	2986.4
5331.1	22.5°	5120.5	4815.4	3820.9	2760.6	2547.2	2617.0	2726.4	2822.2	2886.5	2918.0
5680.0	25°	5406.4	5005.6	3636.2	2521.2	2426.9	2521.2	2630.7	2710.0	2762.0	2790.7
6069.9	27.5°	5723.8	5203.9	3389.9	2331.1	2321.5	2422.7	2513.0	2574.6	2602.0	2623.8
6484.4	30°	6042.5	5384.5	3091.7	2187.5	2229.9	2325.6	2389.9	2417.3	2425.5	2429.6
6946.8	32.5°	6387.2	5540.4	2778.4	2068.4	2142.3	2231.2	2269.5	2281.8	2243.5	2217.5
7507.6	35°	6804.5	5707.3	2472.0	1974.0	2056.1	2132.7	2145.0	2134.1	2089.0	2035.6
8210.8	37.5°	7320.2	5915.3	2227.1	1907.0	1975.4	2026.0	2011.0	2008.2	2012.3	1949.4
9056.2	40°	7952.3	6186.1	2047.9	1855.0	1909.7	1920.7	1878.3	1901.5	1922.1	1826.3
9983.8	42.5°	8654.0	6513.1	1934.4	1819.5	1855.0	1829.0	1763.4	1789.4	1786.6	1660.8
10915.4	45°	9369.5	6868.8	1894.7	1793.5	1804.4	1752.4	1679.9	1686.8	1629.3	1515.8
11808.7	47.5°	10080.9	7250.5	1919.3	1771.6	1741.5	1682.7	1626.6	1596.5	1511.7	1426.8
12665.1	50°	10778.6	7651.3	2009.6	1727.8	1655.3	1621.1	1580.1	1526.7	1436.4	1363.9
13474.9	52.5°	11425.6	8054.9	2110.8	1655.3	1547.2	1567.7	1541.7	1480.2	1391.3	1317.4
14241.0	55°	12038.5	8458.4	2150.5	1555.4	1446.0	1521.2	1506.2	1392.6	1285.9	1225.7
15042.7	57.5°	12706.1	8944.1	2106.7	1428.2	1363.9	1467.9	1410.4	1284.6	1223.0	1177.9
16086.5	60°	13630.9	9706.0	2012.3	1270.9	1285.9	1388.5	1290.0	1238.1	1171.0	1120.4
17651.5	62.5°	15167.1	11127.4	1860.5	1114.9	1194.3	1270.9	1232.6	1180.6	1112.2	1062.9
20327.3	65°	17438.0	13102.8	1574.6	993.2	1091.7	1156.0	1171.0	1119.0	1047.9	995.9
22672.1	67.5°	19353.3	14342.2	1191.5	891.9	986.3	1062.9	1105.4	1054.7	979.5	928.9
23220.6	70°	19247.9	13442.1	909.7	792.1	893.3	971.3	1026.0	986.3	905.6	857.7
21092.0	72.5°	17096.0	11245.1	736.0	690.8	798.9	875.5	941.2	911.1	829.0	782.5
15451.7	75°	12559.7	7982.3	588.2	588.2	681.3	775.7	848.2	829.0	753.8	720.9
6487.1	77.5°	5294.2	3348.9	461.0	488.4	566.4	666.2	756.5	763.4	697.7	738.7
1715.5	80°	1407.7	923.4	351.6	384.4	444.6	549.9	658.0	655.3	584.1	545.8
637.5	82.5°	536.3	363.9	250.3	270.9	321.5	421.3	521.2	537.6	466.5	403.6
250.3	85°	206.6	156.0	154.6	162.8	187.4	279.1	394.0	407.7	351.6	298.2
69.8	87.5°	53.4	46.5	57.5	54.7	86.2	149.1	225.7	233.9	214.8	124.5
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>
3779.8
3606.1
3342.1
3101.3
2956.3
2915.2
2948.1
2994.6
2994.6
2926.2
2799.0
2632.1
2439.2
2225.8
2038.3
1953.5
1829.0
1659.4
1519.9
1426.8
1358.4
1318.8
1220.3
1173.8
1117.7
1062.9
998.6
930.2
<i>861.8</i>
782.5
711.4
670.3
507.5
403.6
307.8
177.8
0.0

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