

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: P943625

Luminaire Tested: **GALN-SB8A-940-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943625
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-SB8A-940-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26044 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

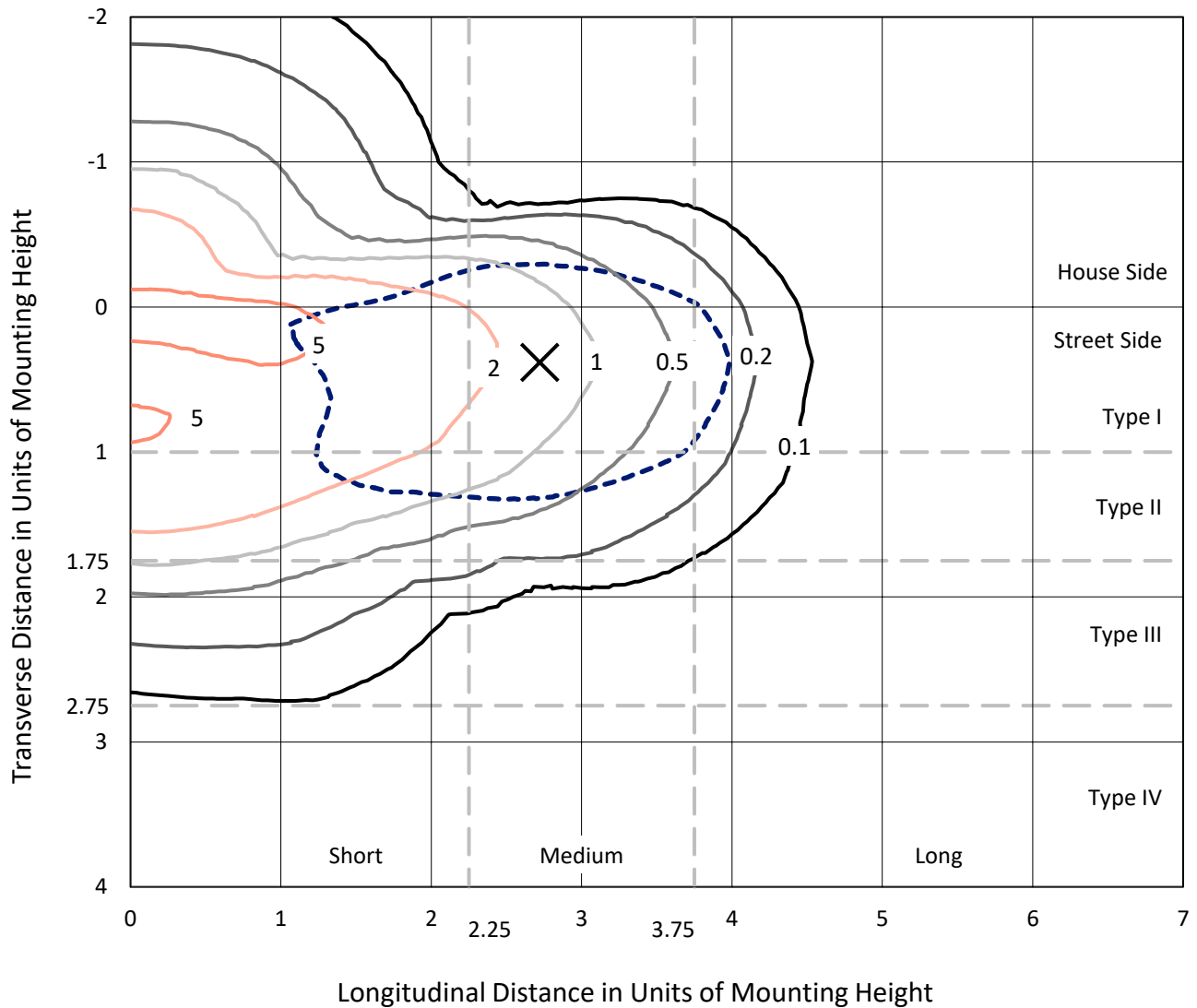
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

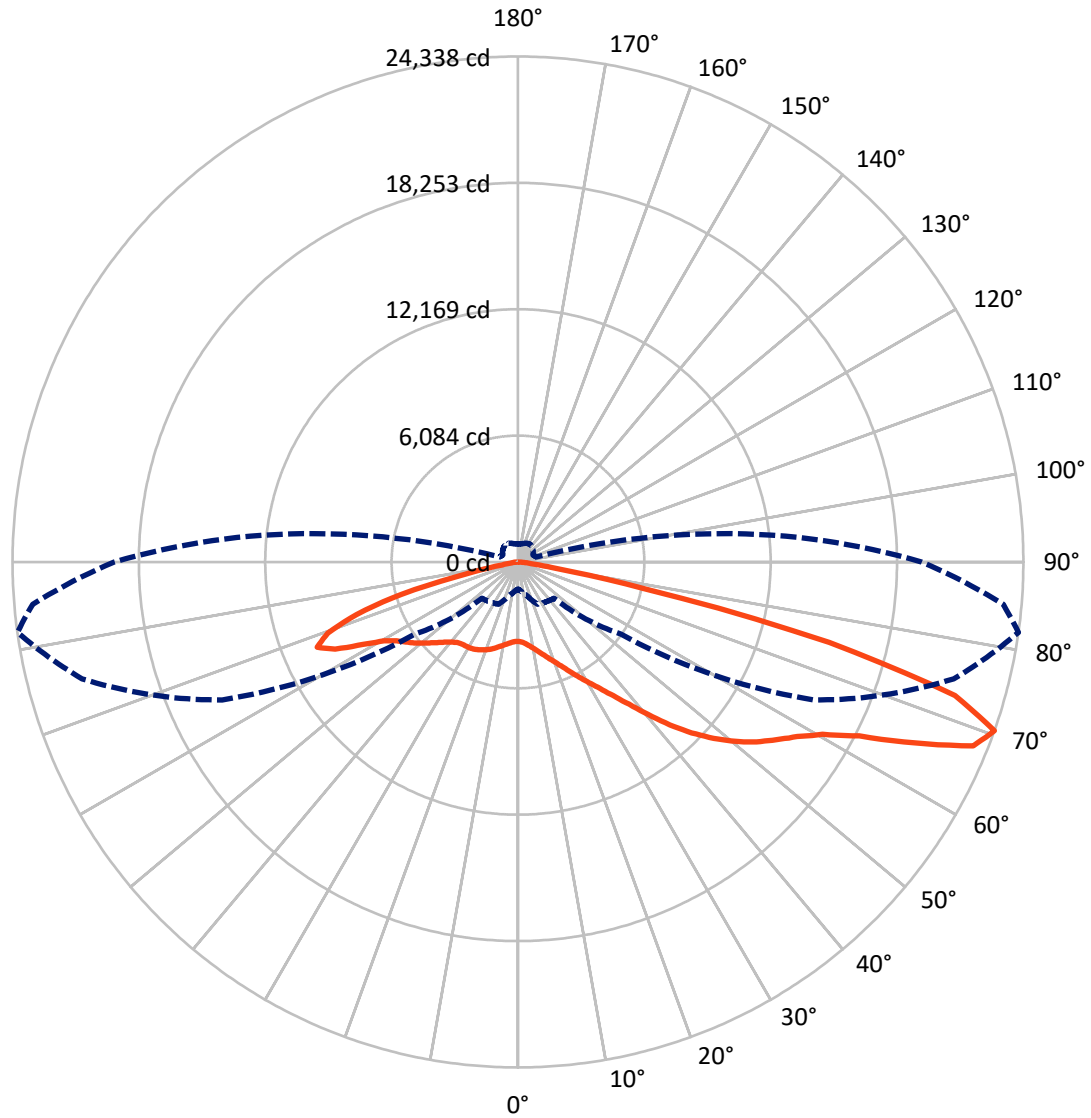
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	6420.5	0.0	6420.5
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	19623.5	0.0	19623.5
	% Fixture	75.3	0.0	75.3
Total	Lumens	26044.0	0.0	26044.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.5	1.4
10°-20°	1035.8	4.0
20°-30°	1732.8	6.7
30°-40°	2707.1	10.4
40°-50°	4311.3	16.6
50°-60°	5999.7	23.0
60°-70°	6276.0	24.1
70°-80°	3280.2	12.6
80°-90°	340.6	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°	26044.0	100.0
0°-180°	26044.0	100.0

Coefficient of Utilization



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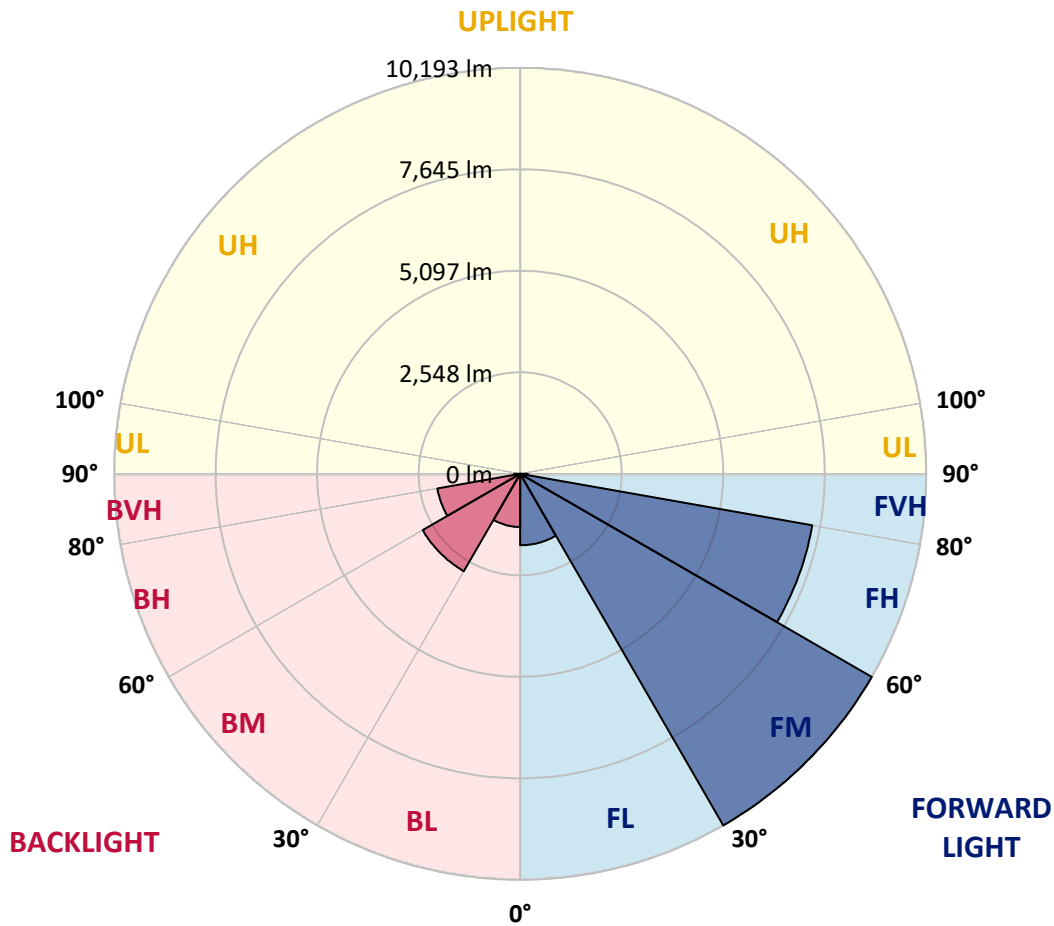
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1793.4	6.9			
FM (30°-60°)	10193.4	39.1			
FH (60°-80°)	7446.1	28.6			G3/7500
FVH (80°-90°)	190.7	0.7			G2/225
BL (0°-30°)	1335.7	5.1	B3/2500		
BM (30°-60°)	2824.8	10.8	B3/5000		
BH (60°-80°)	2110.1	8.1	B3/2500		G3/2500
BVH (80°-90°)	149.9	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°	3818.4	3818.4	3818.4	3818.4	3818.4	3818.4	3818.4	3818.4	3818.4	3818.4
2.5°	3909.6	3931.7	3924.8	3917.9	3917.9	3908.2	3906.8	3893.0	3881.9	3864.0
5°	3959.3	3982.8	3980.1	3985.6	4003.6	4007.7	4011.9	4003.6	3981.4	3959.3
7.5°	3915.1	3941.4	3949.7	3982.8	4038.1	4087.9	4125.2	4140.4	4119.6	4087.9
10°	3765.9	3794.9	3823.9	3902.7	4000.8	4118.3	4217.8	4277.2	4273.0	4242.6
12.5°	3463.2	3493.6	3555.8	3709.2	3888.9	4096.2	4281.3	4405.7	4448.6	4426.4
15°	3221.4	3247.6	3294.6	3452.2	3685.7	4000.8	4304.8	4546.7	4655.8	4643.4
17.5°	3214.5	3225.5	3254.5	3329.2	3508.8	3851.5	4280.0	4684.9	4893.5	4892.2
20°	3336.1	3340.2	3356.8	3372.0	3474.3	3738.2	4216.4	4799.6	5160.3	5160.3
22.5°	3504.7	3501.9	3518.5	3504.7	3554.4	3728.5	4176.3	4900.5	5457.4	5479.5
25°	3757.6	3743.7	3739.6	3707.8	3717.5	3818.4	4220.5	5015.2	5809.8	5855.4
27.5°	4094.8	4072.7	4057.5	3984.2	3959.3	4003.6	4356.0	5153.4	6202.3	6281.0
30°	4534.2	4494.2	4472.0	4344.9	4255.1	4262.0	4560.5	5337.2	6612.7	6739.9
32.5°	5134.0	5071.8	5012.4	4803.7	4639.3	4585.4	4824.4	5591.4	7057.7	7260.9
35°	5805.6	5755.9	5692.3	5370.3	5117.4	4993.0	5181.0	5946.6	7578.7	7900.7
37.5°	6452.4	6409.6	6440.0	6006.0	5679.9	5498.8	5648.1	6423.4	8221.3	8696.7
40°	7121.3	7088.1	7092.3	6677.7	6297.6	6094.5	6214.7	7021.8	8957.9	9643.4
42.5°	7848.2	7823.3	7740.4	7372.8	6945.8	6756.4	6867.0	7712.8	9748.4	10721.3
45°	8662.2	8647.0	8569.6	8148.1	7658.9	7446.0	7595.3	8475.6	10543.0	11735.7
47.5°	9365.6	9378.0	9368.4	9013.2	8506.0	8193.7	8372.0	9271.6	11282.4	12689.2
50°	9704.2	9769.1	9864.5	9753.9	9438.8	9121.0	9155.5	10040.0	11987.2	13583.4
52.5°	9527.3	9650.3	9910.1	10087.0	10208.6	10142.3	10049.7	10802.8	12650.5	14390.4
55°	8868.1	9040.8	9472.0	9899.0	10519.5	11001.8	11123.5	11648.6	13297.3	15100.8
57.5°	7667.2	7947.7	8334.6	9198.4	10243.1	11417.8	12375.5	12821.9	13982.7	15859.5
60°	5608.0	5983.9	6464.8	7750.1	9275.8	11195.3	13441.0	14624.0	14957.0	16842.0
62.5°	3589.0	3821.1	4263.4	5474.0	7227.7	10055.2	13767.2	16876.6	16608.5	18453.4
65°	2457.1	2606.4	3011.3	3691.2	4672.4	7484.7	12893.8	18565.4	19231.5	21007.3
67.5°	1785.5	1898.8	2244.3	2839.9	3044.5	4429.2	10005.4	18488.0	21781.2	23638.6
70°	1301.8	1382.0	1672.2	2244.3	2342.4	2464.0	6061.3	15715.7	21725.9	24337.8
72.5°	964.6	1019.9	1214.7	1741.3	1896.1	1663.9	3000.3	11422.0	18669.0	22013.4
75°	697.9	739.4	883.1	1332.2	1517.4	1267.3	1496.7	6674.9	13022.3	15484.9
77.5°	533.4	565.2	659.2	975.7	1214.7	950.8	928.7	3070.7	6174.6	6205.0
80°	428.4	449.1	500.3	686.8	931.4	711.7	605.3	1239.6	1951.3	1651.5
82.5°	315.1	349.6	422.9	482.3	666.1	490.6	369.0	626.0	742.1	638.5
85°	179.7	203.1	255.7	345.5	425.6	299.9	211.4	277.8	345.5	283.3
87.5°	63.6	82.9	89.8	135.4	185.2	124.4	81.5	80.2	113.3	84.3
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°
3818.4	0°	3818.4	3818.4	3818.4	3818.4	3818.4	3818.4	3818.4	3818.4	3818.4	3818.4
3859.8	2.5°	3846.0	3839.1	3811.5	3774.2	3735.5	3698.1	3685.7	3659.4	3641.5	3631.8
3949.7	5°	3923.4	3901.3	3836.3	3753.4	3666.4	3572.4	3506.1	3445.2	3401.0	3359.6
4072.7	7.5°	4034.0	3995.3	3883.3	3738.2	3583.4	3427.3	3311.2	3222.7	3163.3	3124.6
4216.4	10°	4162.5	4103.1	3931.7	3714.7	3475.6	3251.8	3115.0	3038.9	3001.6	2980.9
4380.8	12.5°	4310.4	4226.1	3981.4	3660.8	3311.2	3055.5	2961.6	2939.4	2940.8	2942.2
4588.1	15°	4492.8	4375.3	4021.5	3543.4	3097.0	2904.9	2888.3	2924.2	2961.6	2979.5
4823.1	17.5°	4698.7	4532.9	4028.4	3349.9	2886.9	2808.2	2860.7	2938.1	2994.7	3019.6
5085.6	20°	4919.8	4693.2	3978.7	3076.3	2714.2	2729.4	2823.4	2922.9	2985.0	3016.8
5385.5	22.5°	5172.7	4864.5	3859.8	2788.8	2573.2	2643.7	2754.3	2851.0	2916.0	2947.7
5737.9	25°	5461.5	5056.6	3673.3	2547.0	2451.6	2547.0	2657.5	2737.7	2790.2	2819.2
6131.8	27.5°	5782.2	5257.0	3424.5	2354.9	2345.2	2447.5	2538.7	2600.9	2628.5	2650.6
6550.5	30°	6104.2	5439.4	3123.2	2209.8	2252.6	2349.3	2414.3	2441.9	2450.2	2454.4
7017.6	32.5°	6452.4	5597.0	2806.8	2089.5	2164.2	2254.0	2292.7	2305.1	2266.4	2240.2
7584.2	35°	6873.9	5765.6	2497.2	1994.2	2077.1	2154.5	2166.9	2155.9	2110.3	2056.4
8294.6	37.5°	7394.9	5975.6	2249.8	1926.5	1995.6	2046.7	2031.5	2028.7	2032.9	1969.3
9148.6	40°	8033.4	6249.3	2068.8	1873.9	1929.2	1940.3	1897.4	1920.9	1941.7	1844.9
10085.6	42.5°	8742.3	6579.5	1954.1	1838.0	1873.9	1847.7	1781.4	1807.6	1804.8	1677.7
11026.7	45°	9465.1	6938.9	1914.0	1811.8	1822.8	1770.3	1697.1	1704.0	1645.9	1531.2
11929.1	47.5°	10183.7	7324.4	1938.9	1789.6	1759.2	1699.8	1643.2	1612.8	1527.1	1441.4
12794.3	50°	10888.5	7729.3	2030.1	1745.4	1672.2	1637.6	1596.2	1542.3	1451.1	1377.8
13612.4	52.5°	11542.2	8137.0	2132.4	1672.2	1563.0	1583.7	1557.5	1495.3	1405.5	1330.8
14386.3	55°	12161.3	8544.7	2172.5	1571.3	1460.7	1536.7	1521.5	1406.8	1299.0	1238.2
15196.1	57.5°	12835.7	9035.3	2128.2	1442.8	1377.8	1482.9	1424.8	1297.7	1235.5	1189.9
16250.6	60°	13769.9	9805.1	2032.9	1283.8	1299.0	1402.7	1303.2	1250.7	1183.0	1131.8
17831.5	62.5°	15321.9	11240.9	1879.5	1126.3	1206.5	1283.8	1245.2	1192.6	1123.5	1073.8
20534.7	65°	17615.9	13236.5	1590.6	1003.3	1102.8	1167.8	1183.0	1130.4	1058.6	1006.1
22903.3	67.5°	19550.7	14488.5	1203.7	901.0	996.4	1073.8	1116.6	1065.5	989.5	938.4
23457.5	70°	19444.3	13579.2	919.0	800.2	902.4	981.2	1036.5	996.4	914.9	866.5
21307.2	72.5°	17270.4	11359.8	743.5	697.9	807.1	884.5	950.8	920.4	837.5	790.5
15609.3	75°	12687.8	8063.8	594.2	594.2	688.2	783.6	856.8	837.5	761.5	728.3
6553.3	77.5°	5348.2	3383.1	465.7	493.4	572.1	673.0	764.2	771.1	704.8	746.3
1733.0	80°	1422.0	932.8	355.2	388.3	449.1	555.6	664.7	662.0	590.1	551.4
644.0	82.5°	541.7	367.6	252.9	273.6	324.8	425.6	526.5	543.1	471.3	407.7
252.9	85°	208.7	157.5	156.2	164.5	189.3	281.9	398.0	411.8	355.2	301.3
70.5	87.5°	53.9	47.0	58.0	55.3	87.1	150.6	228.0	236.3	217.0	125.8
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>
3818.4
3642.9
3376.1
3132.9
2986.4
2945.0
2978.1
3025.1
3025.1
2956.0
2827.5
2658.9
2464.0
2248.5
2059.1
1973.4
1847.7
1676.3
1535.4
1441.4
1372.3
1332.2
1232.7
1185.7
1129.1
1073.8
1008.8
939.7
870.6
790.5
718.6
677.2
512.7
407.7
310.9
179.7
0.0

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