

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: P953013

Luminaire Tested: **GALN-SB6C-940-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6C-940-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33519 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

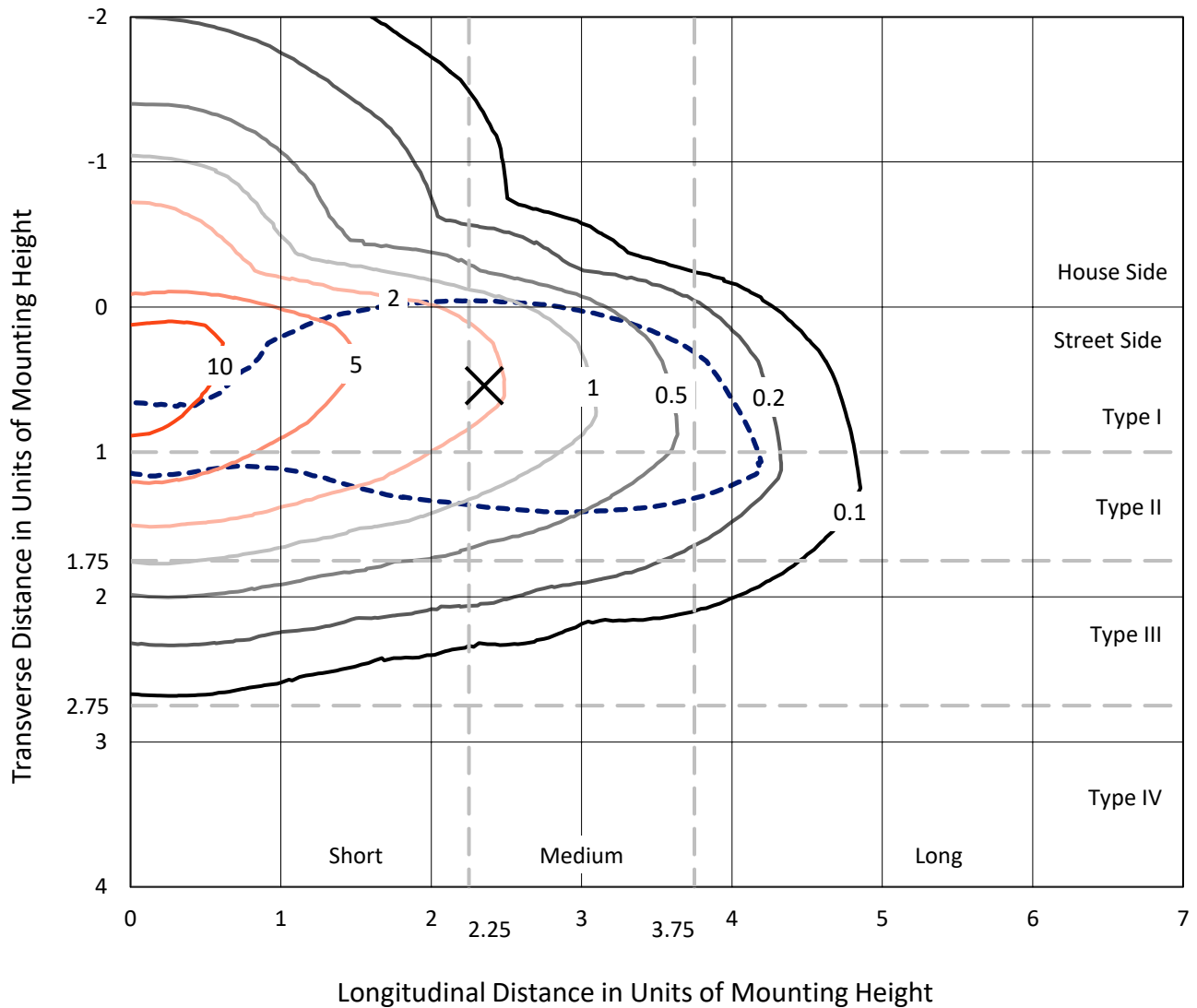
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

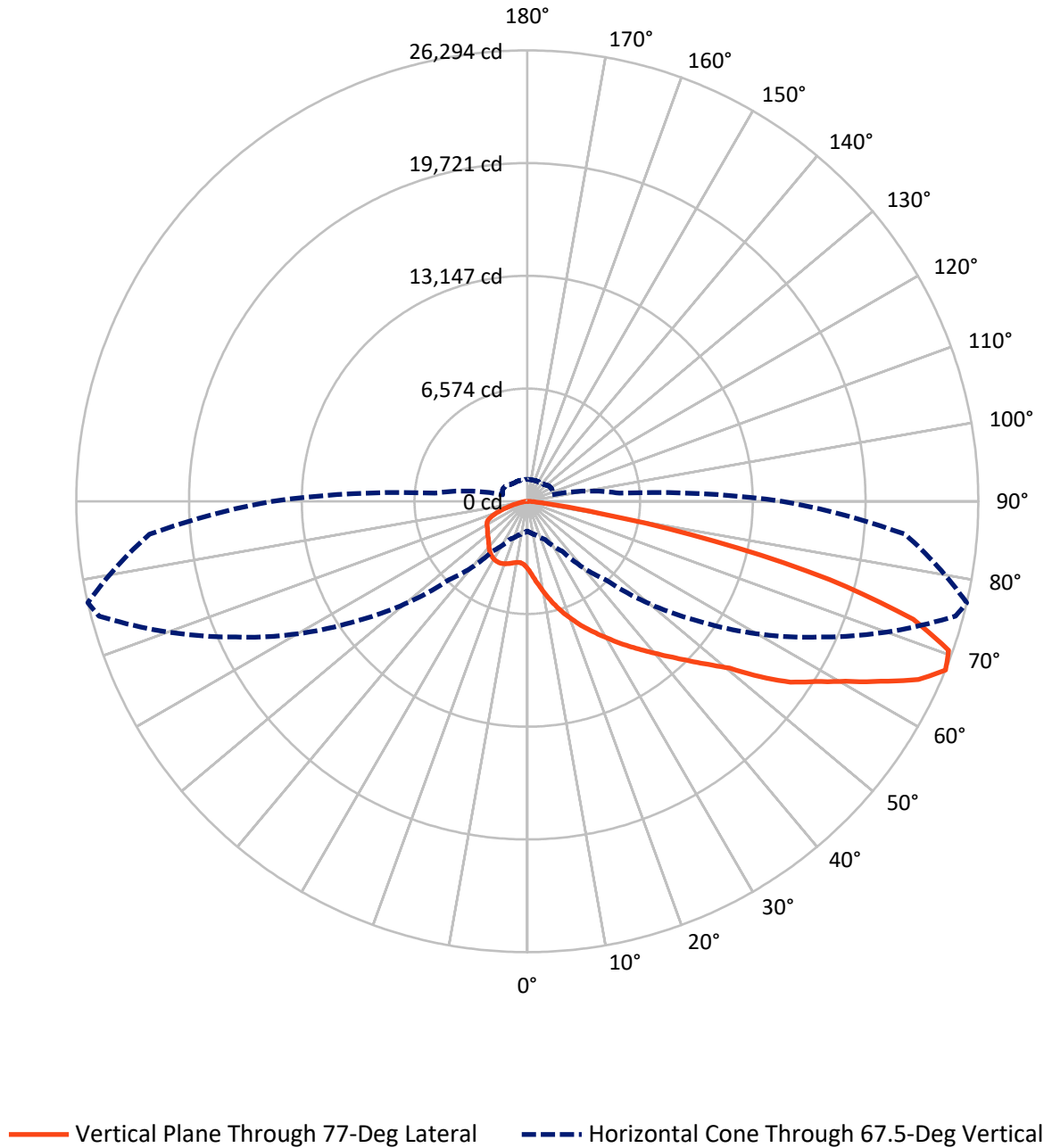
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6340.5	0.0	6340.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	27178.5	0.0	27178.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	33519.0	0.0	33519.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.5	1.3
10°-20°	1514.4	4.5
20°-30°	2859.4	8.5
30°-40°	4606.5	13.7
40°-50°	6300.8	18.8
50°-60°	7107.4	21.2
60°-70°	6633.8	19.8
70°-80°	3636.5	10.8
80°-90°	438.6	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°	33519.0	100.0
0°-180°	33519.0	100.0



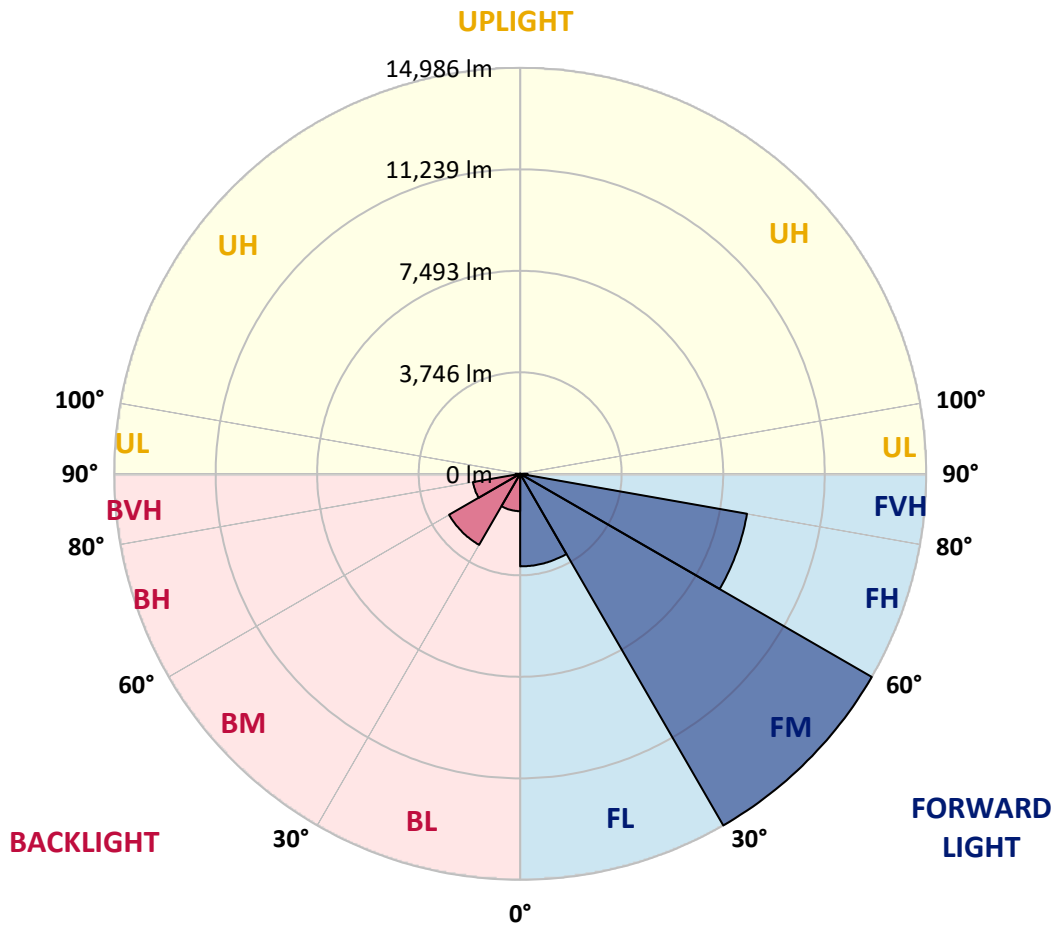
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3416.8	10.2			
FM (30°-60°)	14986.0	44.7			
FH (60°-80°)	8501.4	25.4			G4/12000
FVH (80°-90°)	274.3	0.8			G3/500
BL (0°-30°)	1378.6	4.1	B3/2500		
BM (30°-60°)	3028.7	9.0	B3/5000		
BH (60°-80°)	1768.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	164.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3932.8	3932.8	3932.8	3932.8	3932.8	3932.8	3932.8	3932.8	3932.8	3932.8
2.5°	4924.2	4958.8	4915.6	4915.6	4770.3	4694.1	4548.8	4438.0	4239.1	4204.5
5°	5820.5	5863.8	5803.2	5777.2	5606.0	5448.5	5204.5	4964.0	4609.3	4573.0
7.5°	6514.3	6569.7	6516.1	6488.4	6336.1	6159.6	5874.1	5538.5	5038.4	4967.5
10°	7080.1	7088.8	7071.5	7081.8	6962.5	6817.1	6524.7	6133.7	5509.1	5412.2
12.5°	7400.2	7440.0	7474.6	7536.9	7516.1	7426.2	7163.2	6696.0	6007.4	5882.8
15°	7550.7	7619.9	7697.8	7841.4	7957.3	7979.8	7779.1	7299.9	6514.3	6363.8
17.5°	7604.4	7670.1	7793.0	8000.6	8249.8	8417.6	8327.6	7886.4	7016.1	6843.1
20°	7876.0	7895.1	7969.5	8166.7	8436.6	8715.2	8782.7	8450.5	7512.7	7317.2
22.5°	8457.4	8419.3	8440.1	8530.0	8723.8	8993.8	9147.7	8948.8	8023.1	7798.2
25°	9417.7	9306.9	9196.2	9092.4	9191.0	9343.3	9518.0	9447.1	8557.7	8272.2
27.5°	10630.6	10495.6	10251.6	9910.8	9791.4	9845.0	9922.9	9909.0	9052.6	8763.6
30°	11824.4	11667.0	11376.3	10883.2	10568.3	10426.4	10367.6	10327.8	9590.7	9282.7
32.5°	12777.8	12653.2	12367.7	11815.8	11359.0	11116.7	10921.2	10779.4	10153.0	9845.0
35°	13611.7	13495.8	13168.8	12566.7	12070.1	11812.3	11556.2	11253.4	10737.8	10426.4
37.5°	14373.0	14257.1	13809.0	13182.6	12682.6	12504.4	12276.0	11762.1	11324.4	11030.2
40°	14854.1	14828.1	14409.4	13700.0	13180.9	13092.7	13016.5	12352.1	11974.9	11701.6
42.5°	14976.9	15034.0	14701.8	14118.7	13623.9	13552.9	13731.1	13020.0	12705.1	12443.8
45°	14681.0	14845.4	14627.4	14231.2	13938.8	13900.7	14364.4	13750.2	13513.1	13274.3
47.5°	13931.8	14210.4	14120.4	14065.1	14023.5	14187.9	14921.5	14525.3	14428.4	14220.8
50°	12419.6	12947.3	13104.8	13454.3	13855.7	14411.1	15428.5	15371.4	15497.7	15288.3
52.5°	9805.2	10531.9	11445.5	12321.0	13340.1	14336.7	15985.6	16586.0	17118.9	17004.7
55°	8094.0	8421.0	9123.5	10729.2	12340.0	14023.5	16236.5	17567.1	18728.0	18626.0
57.5°	6779.1	7071.5	7504.0	8845.0	10827.8	13312.4	16392.2	18165.7	19830.2	19819.8
60°	5368.9	5678.6	6121.6	7071.5	9061.2	12083.9	16357.6	18847.4	21236.9	21323.4
62.5°	3777.1	4118.0	4609.3	5495.2	7256.6	10492.1	15651.7	19340.5	22892.7	23128.0
65°	2482.9	2707.8	3078.1	3842.8	5407.0	8445.3	14303.8	19404.6	24664.5	25062.4
67.5°	1740.6	1827.1	2045.1	2460.4	3564.3	6476.3	12156.6	18741.9	25846.2	26294.4
70°	1358.2	1401.5	1512.2	1678.3	2238.9	4355.0	9315.6	17018.6	25593.6	26060.8
72.5°	1173.1	1214.6	1256.1	1276.9	1501.8	2688.8	6310.2	14229.4	23214.5	23531.2
75°	1064.1	1074.5	1109.1	1102.2	1145.4	1744.1	3642.1	10367.6	18316.2	18207.2
77.5°	894.5	908.4	965.5	956.8	1017.4	1192.1	1891.1	6690.8	11874.6	11134.1
80°	757.8	764.8	827.1	816.7	884.1	863.4	965.5	3410.3	5036.7	4266.8
82.5°	263.0	325.3	631.5	650.6	674.8	522.5	557.1	1391.1	1538.2	1178.3
85°	128.0	136.7	321.8	456.8	455.1	263.0	271.6	496.6	484.5	380.7
87.5°	20.8	26.0	38.1	178.2	141.9	69.2	93.4	96.9	100.4	86.5
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°
3932.8	0°	3932.8	3932.8	3932.8	3932.8	3932.8	3932.8	3932.8	3932.8	3932.8	3932.8
4073.0	2.5°	3976.1	3889.6	3707.9	3540.1	3408.6	3282.3	3211.3	3150.8	3116.1	3109.2
4263.3	5°	4083.4	3905.1	3574.7	3296.1	3114.4	2979.5	2908.5	2863.5	2841.0	2827.2
4519.4	7.5°	4237.3	3976.1	3505.5	3188.8	2998.5	2901.6	2865.3	2858.3	2856.6	2858.3
4829.1	10°	4450.2	4092.0	3498.5	3162.9	3003.7	2950.0	2948.3	2950.0	2957.0	2958.7
5166.5	12.5°	4680.3	4211.4	3526.2	3185.4	3069.4	3040.0	3034.8	3033.1	3038.3	3041.7
5507.3	15°	4931.2	4368.8	3572.9	3233.8	3142.1	3111.0	3105.8	3095.4	3093.7	3091.9
5865.5	17.5°	5189.0	4524.6	3624.8	3285.7	3188.8	3145.6	3126.5	3102.3	3083.3	3078.1
6235.8	20°	5450.2	4678.6	3661.2	3311.7	3192.3	3131.7	3093.7	3052.1	3019.3	3000.2
6609.5	22.5°	5728.8	4839.5	3683.7	3304.7	3161.1	3078.1	3008.9	2960.4	2910.3	2877.4
6986.7	25°	6000.4	4979.6	3681.9	3268.4	3100.6	2995.0	2906.8	2844.5	2775.3	2740.7
7376.0	27.5°	6261.7	5105.9	3638.7	3204.4	3014.1	2896.4	2790.9	2716.5	2649.0	2616.1
7768.7	30°	6531.6	5211.5	3571.2	3111.0	2912.0	2782.2	2666.3	2602.3	2541.7	2510.6
8184.0	32.5°	6799.8	5308.4	3476.0	2995.0	2794.3	2669.7	2555.6	2496.7	2460.4	2460.4
8630.4	35°	7083.6	5375.8	3349.7	2860.1	2669.7	2550.4	2460.4	2425.8	2422.3	2401.6
9102.8	37.5°	7382.9	5419.1	3195.7	2721.7	2546.9	2434.4	2406.8	2365.2	2330.6	2285.6
9621.8	40°	7697.8	5462.3	3010.6	2578.0	2417.1	2354.8	2342.7	2287.4	2188.7	2078.0
10210.1	42.5°	8080.2	5491.8	2818.5	2434.4	2280.4	2259.7	2277.0	2181.8	2024.4	1941.3
10919.5	45°	8523.1	5540.2	2642.1	2292.6	2140.3	2140.3	2213.0	2088.4	1958.6	1906.7
11729.3	47.5°	9097.6	5652.7	2477.7	2136.8	2010.5	2045.1	2071.1	1975.9	1903.3	1839.2
12715.5	50°	9928.1	5922.6	2308.1	1979.4	1911.9	1981.1	1944.8	1889.4	1804.6	1752.7
14283.1	52.5°	10959.3	6081.8	2157.6	1837.5	1827.1	1896.3	1844.4	1792.5	1728.5	1659.3
15471.7	55°	11661.8	6111.2	2031.3	1733.7	1770.0	1763.1	1744.1	1697.4	1662.8	1571.1
16644.8	57.5°	12447.3	6170.0	1927.5	1671.4	1733.7	1657.6	1650.6	1610.8	1565.9	1503.6
18075.7	60°	13386.8	6261.7	1837.5	1647.2	1702.5	1588.4	1553.7	1538.2	1493.2	1462.0
19797.3	62.5°	14411.1	6344.8	1745.8	1650.6	1666.2	1520.9	1469.0	1463.8	1436.1	1425.7
21413.4	65°	15110.1	6118.1	1631.6	1647.2	1609.1	1451.7	1385.9	1384.2	1361.7	1358.2
22114.1	67.5°	14866.2	5400.1	1477.6	1598.7	1550.3	1382.5	1309.8	1302.9	1273.5	1275.2
21382.2	70°	13644.6	4375.8	1264.8	1479.3	1477.6	1320.2	1230.2	1207.7	1167.9	1174.8
18591.4	72.5°	11353.8	3242.5	979.3	1280.4	1361.7	1263.1	1138.5	1102.2	1052.0	1058.9
13724.2	75°	8199.6	2204.3	712.9	974.1	1185.2	1195.6	1048.5	986.2	925.7	936.1
7639.0	77.5°	4195.8	1249.2	524.3	671.3	930.9	1086.6	967.2	884.1	870.3	967.2
2202.6	80°	1368.6	626.3	363.3	470.6	610.8	889.3	847.8	752.7	749.2	771.7
462.0	82.5°	408.3	264.7	233.6	309.7	337.4	681.7	731.9	569.2	489.7	515.6
154.0	85°	140.1	128.0	133.2	154.0	160.9	399.7	512.1	377.2	356.4	392.8
34.6	87.5°	32.9	45.0	38.1	34.6	34.6	96.9	199.0	157.5	218.0	145.3
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>
3932.8
3109.2
2825.5
2863.5
2960.4
3043.5
3090.2
3083.3
3007.1
2879.1
2740.7
2614.4
2508.8
2462.1
2396.4
2278.7
2062.4
1943.1
1915.4
1837.5
1747.5
1645.5
1572.8
1482.8
1470.7
1425.7
1356.5
1275.2
1181.7
1057.2
939.5
953.4
662.7
532.9
387.6
140.1
0.0

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