

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: P954441

Luminaire Tested: **GALN-SB7C-940-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954441
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-SB7C-940-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 39310 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

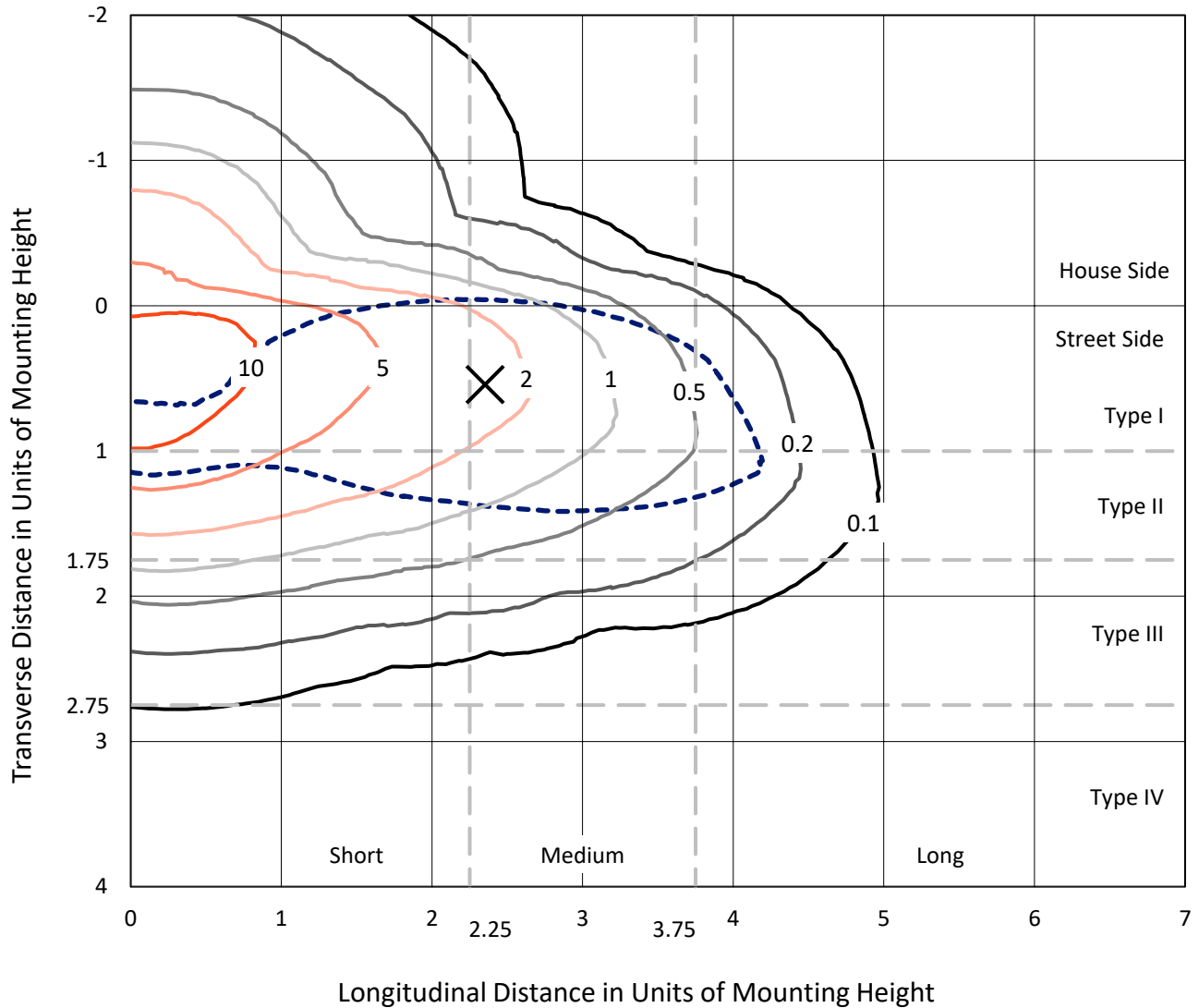
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

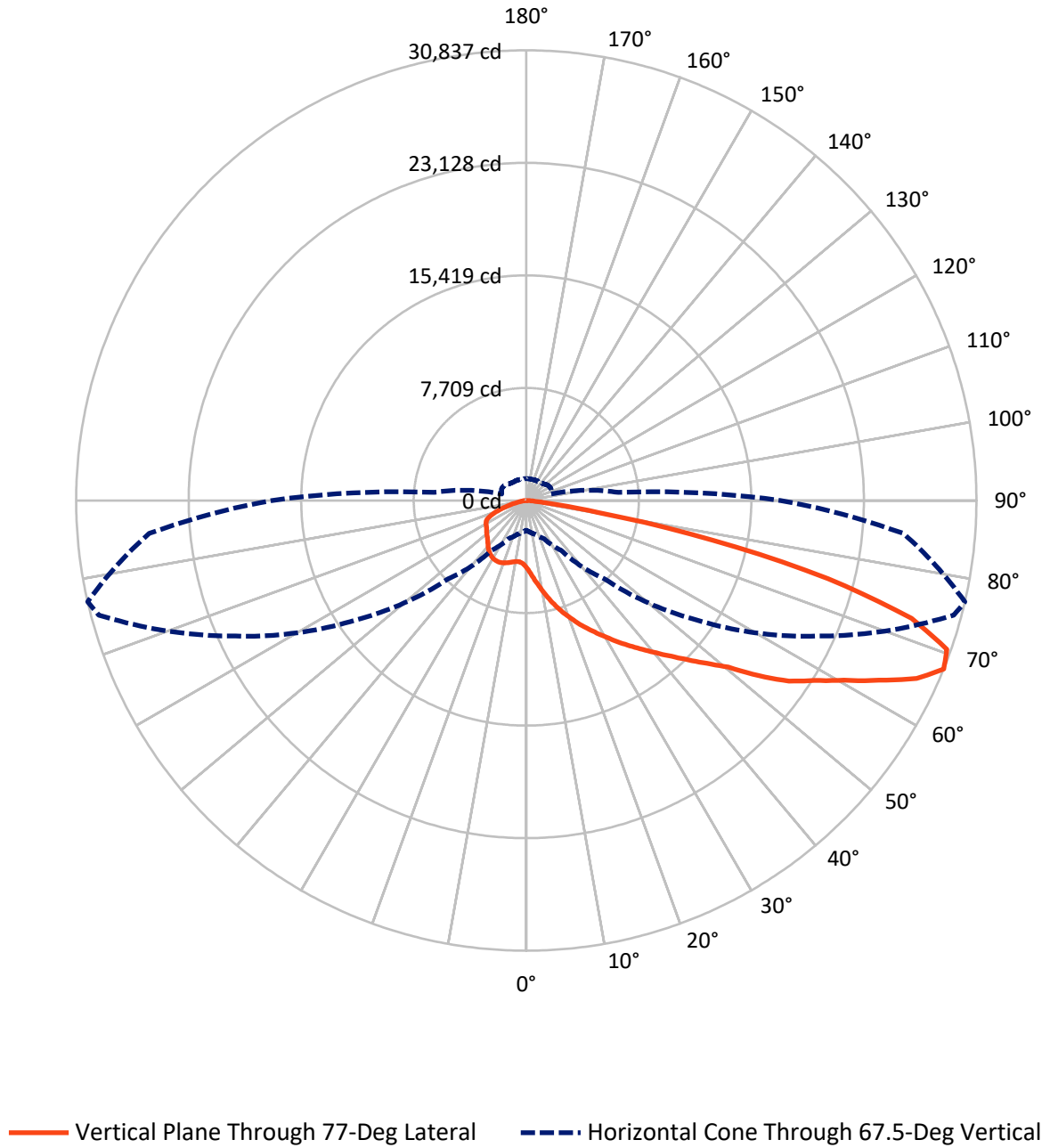
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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	7435.9	0.0	7435.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	31874.1	0.0	31874.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	39310.0	0.0	39310.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.4	1.3
10°-20°	1776.1	4.5
20°-30°	3353.4	8.5
30°-40°	5402.3	13.7
40°-50°	7389.4	18.8
50°-60°	8335.3	21.2
60°-70°	7780.0	19.8
70°-80°	4264.7	10.8
80°-90°	514.4	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°	39310.0	100.0
0°-180°	39310.0	100.0

Coefficient of Utilization

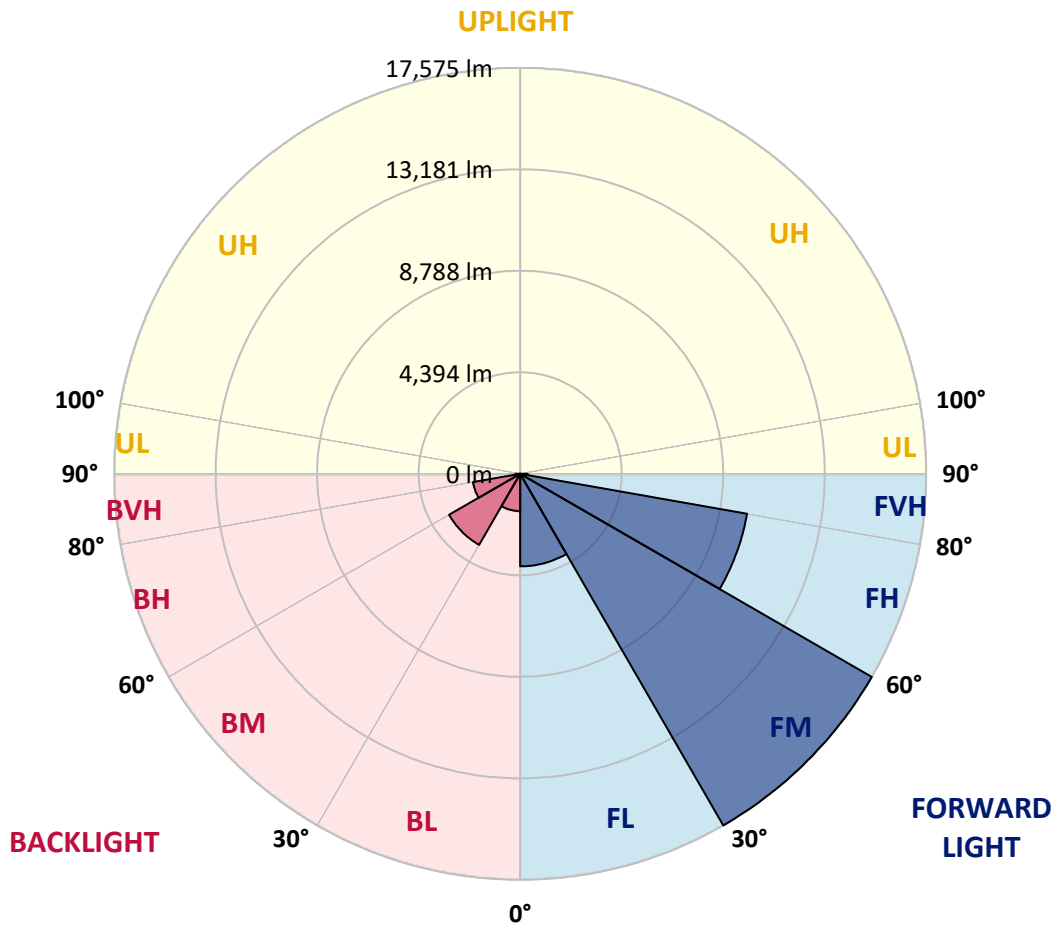


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4007.2	10.2			
FM (30°-60°)	17575.1	44.7			
FH (60°-80°)	9970.2	25.4			G4/12000
FVH (80°-90°)	321.7	0.8			G3/500
BL (0°-30°)	1616.7	4.1	B3/2500		
BM (30°-60°)	3551.9	9.0	B3/5000		
BH (60°-80°)	2074.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	192.7	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°	4612.3	4612.3	4612.3	4612.3	4612.3	4612.3	4612.3	4612.3	4612.3	4612.3
2.5°	5775.0	5815.6	5764.8	5764.8	5594.4	5505.1	5334.7	5204.8	4971.4	4930.9
5°	6826.1	6876.8	6805.8	6775.4	6574.5	6389.8	6103.7	5821.7	5405.7	5363.1
7.5°	7639.8	7704.7	7641.8	7609.4	7430.8	7223.8	6889.0	6495.3	5908.9	5825.7
10°	8303.3	8313.5	8293.2	8305.4	8165.3	7994.9	7652.0	7193.4	6460.9	6347.2
12.5°	8678.7	8725.4	8766.0	8839.0	8814.7	8709.2	8400.7	7852.9	7045.2	6899.1
15°	8855.3	8936.4	9027.7	9196.2	9332.1	9358.5	9123.1	8561.0	7639.8	7463.3
17.5°	8918.2	8995.3	9139.3	9382.8	9675.0	9871.9	9766.4	9248.9	8228.3	8025.3
20°	9236.7	9259.1	9346.3	9577.6	9894.2	10220.9	10300.0	9910.4	8810.6	8581.3
22.5°	9918.5	9873.9	9898.3	10003.8	10231.0	10547.6	10728.2	10494.8	9409.2	9145.4
25°	11044.7	10914.9	10785.0	10663.2	10778.9	10957.5	11162.4	11079.2	10036.2	9701.4
27.5°	12467.2	12308.9	12022.8	11623.0	11483.0	11545.9	11637.2	11621.0	10616.6	10277.7
30°	13867.3	13682.6	13341.7	12763.4	12394.1	12227.7	12158.7	12112.1	11247.6	10886.5
32.5°	14985.4	14839.3	14504.4	13857.1	13321.4	13037.4	12808.1	12641.7	11907.1	11545.9
35°	15963.4	15827.5	15443.9	14737.8	14155.4	13853.1	13552.8	13197.7	12593.0	12227.7
37.5°	16856.2	16720.3	16194.7	15460.2	14873.8	14664.8	14396.9	13794.2	13280.9	12935.9
40°	17420.4	17389.9	16898.9	16066.9	15458.2	15354.7	15265.4	14486.2	14043.8	13723.2
42.5°	17564.4	17631.4	17241.8	16558.0	15977.6	15894.4	16103.4	15269.4	14900.1	14593.7
45°	17217.4	17410.2	17154.5	16689.9	16346.9	16302.3	16846.1	16125.7	15847.8	15567.7
47.5°	16338.8	16665.5	16560.0	16495.1	16446.4	16639.1	17499.5	17034.8	16921.2	16677.7
50°	14565.3	15184.2	15368.9	15778.8	16249.5	16900.9	18094.0	18027.1	18175.2	17929.7
52.5°	11499.3	12351.5	13422.9	14449.7	15644.8	16813.6	18747.4	19451.5	20076.5	19942.6
55°	9492.4	9875.9	10699.8	12582.8	14472.0	16446.4	19041.7	20602.1	21963.6	21843.9
57.5°	7950.3	8293.2	8800.5	10373.1	12698.5	15612.4	19224.3	21304.2	23256.2	23244.0
60°	6296.5	6659.7	7179.2	8293.2	10626.7	14171.7	19183.7	22103.7	24905.9	25007.4
62.5°	4429.7	4829.4	5405.7	6444.6	8510.3	12304.8	18355.8	22682.0	26847.8	27123.8
65°	2911.8	3175.6	3609.9	4506.8	6341.1	9904.3	16775.1	22757.0	28925.7	29392.4
67.5°	2041.3	2142.8	2398.5	2885.5	4180.1	7595.2	14256.9	21979.9	30311.6	30837.2
70°	1592.9	1643.6	1773.5	1968.3	2625.7	5107.4	10925.0	19958.8	30015.4	30563.2
72.5°	1375.8	1424.5	1473.2	1497.5	1761.3	3153.3	7400.4	16687.8	27225.3	27596.6
75°	1247.9	1260.1	1300.7	1292.6	1343.3	2045.4	4271.4	12158.7	21480.7	21352.9
77.5°	1049.1	1065.3	1132.3	1122.1	1193.1	1398.1	2217.9	7846.8	13926.1	13057.7
80°	888.8	896.9	969.9	957.8	1036.9	1012.6	1132.3	3999.5	5906.9	5003.9
82.5°	308.4	381.5	740.6	763.0	791.4	612.8	653.4	1631.4	1803.9	1381.9
85°	150.2	160.3	377.4	535.7	533.7	308.4	318.6	582.4	568.2	446.4
87.5°	24.3	30.4	44.6	209.0	166.4	81.2	109.6	113.6	117.7	101.5
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°
4612.3	0°	4612.3	4612.3	4612.3	4612.3	4612.3	4612.3	4612.3	4612.3	4612.3	4612.3
4776.6	2.5°	4663.0	4561.6	4348.5	4151.7	3997.4	3849.3	3766.1	3695.1	3654.5	3646.4
4999.9	5°	4788.8	4579.8	4192.2	3865.6	3652.5	3494.2	3411.0	3358.3	3331.9	3315.7
5300.2	7.5°	4969.4	4663.0	4111.1	3739.7	3516.5	3402.9	3360.3	3352.2	3350.1	3352.2
5663.4	10°	5219.0	4799.0	4103.0	3709.3	3522.6	3459.7	3457.7	3459.7	3467.8	3469.9
6059.1	12.5°	5488.9	4939.0	4135.4	3735.7	3599.7	3565.2	3559.1	3557.1	3563.2	3567.3
6458.8	15°	5783.1	5123.6	4190.2	3792.5	3685.0	3648.4	3642.3	3630.2	3628.1	3626.1
6878.9	17.5°	6085.5	5306.3	4251.1	3853.4	3739.7	3689.0	3666.7	3638.3	3616.0	3609.9
7313.1	20°	6391.9	5486.9	4293.7	3883.8	3743.8	3672.8	3628.1	3579.4	3540.9	3518.6
7751.4	22.5°	6718.6	5675.6	4320.1	3875.7	3707.3	3609.9	3528.7	3471.9	3413.0	3374.5
8193.8	25°	7037.1	5839.9	4318.1	3833.1	3636.3	3512.5	3409.0	3335.9	3254.8	3214.2
8650.3	27.5°	7343.5	5988.1	4267.3	3758.0	3534.8	3396.8	3273.0	3185.8	3106.6	3068.1
9110.9	30°	7660.1	6111.8	4188.2	3648.4	3415.1	3262.9	3126.9	3051.9	2980.8	2944.3
9597.9	32.5°	7974.6	6225.5	4076.6	3512.5	3277.1	3131.0	2997.1	2928.1	2885.5	2885.5
10121.5	35°	8307.4	6304.6	3928.5	3354.2	3131.0	2991.0	2885.5	2844.9	2840.8	2816.5
10675.4	37.5°	8658.4	6355.3	3747.9	3191.9	2986.9	2855.0	2822.6	2773.9	2733.3	2680.5
11284.2	40°	9027.7	6406.1	3530.7	3023.5	2834.7	2761.7	2747.5	2682.6	2566.9	2437.0
11974.1	42.5°	9476.2	6440.6	3305.5	2855.0	2674.4	2650.1	2670.4	2558.8	2374.1	2276.7
12806.0	45°	9995.6	6497.4	3098.5	2688.6	2510.1	2510.1	2595.3	2449.2	2297.0	2236.1
13755.7	47.5°	10669.3	6629.3	2905.8	2506.0	2357.9	2398.5	2428.9	2317.3	2232.1	2157.0
14912.3	50°	11643.3	6945.8	2706.9	2321.4	2242.2	2323.4	2280.8	2215.8	2116.4	2055.5
16750.7	52.5°	12852.7	7132.5	2530.4	2155.0	2142.8	2224.0	2163.1	2102.2	2027.1	1946.0
18144.8	55°	13676.5	7167.0	2382.2	2033.2	2075.8	2067.7	2045.4	1990.6	1950.0	1842.5
19520.5	57.5°	14597.8	7236.0	2260.5	1960.2	2033.2	1943.9	1935.8	1889.1	1836.4	1763.3
21198.7	60°	15699.6	7343.5	2155.0	1931.8	1996.7	1862.8	1822.2	1803.9	1751.2	1714.6
23217.7	62.5°	16900.9	7440.9	2047.4	1935.8	1954.1	1783.6	1722.8	1716.7	1684.2	1672.0
25112.9	65°	17720.7	7175.1	1913.5	1931.8	1887.1	1702.5	1625.4	1623.3	1597.0	1592.9
25934.7	67.5°	17434.6	6333.0	1732.9	1874.9	1818.1	1621.3	1536.1	1528.0	1493.5	1495.5
25076.4	70°	16002.0	5131.7	1483.3	1734.9	1732.9	1548.3	1442.7	1416.4	1369.7	1377.8
21803.3	72.5°	13315.4	3802.6	1148.5	1501.6	1597.0	1481.3	1335.2	1292.6	1233.7	1241.8
16095.3	75°	9616.2	2585.2	836.0	1142.4	1390.0	1402.2	1229.7	1156.6	1085.6	1097.8
8958.7	77.5°	4920.7	1465.1	614.8	787.3	1091.7	1274.3	1134.3	1036.9	1020.7	1134.3
2583.1	80°	1605.1	734.6	426.1	551.9	716.3	1043.0	994.3	882.7	878.6	905.0
541.8	82.5°	478.9	310.5	273.9	363.2	395.7	799.5	858.3	667.6	574.3	604.7
180.6	85°	164.4	150.2	156.2	180.6	188.7	468.7	600.6	442.4	418.0	460.6
40.6	87.5°	38.6	52.8	44.6	40.6	40.6	113.6	233.4	184.7	255.7	170.4
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>
4612.3
3646.4
3313.6
3358.3
3471.9
3569.3
3624.1
3616.0
3526.7
3376.5
3214.2
3066.1
2942.3
2887.5
2810.4
2672.4
2418.8
2278.7
2246.3
2155.0
2049.5
1929.7
1844.5
1739.0
1724.8
1672.0
1590.9
1495.5
1385.9
1239.8
1101.8
1118.1
777.2
625.0
454.5
164.4
0.0

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