

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: P951459

Luminaire Tested: **GALN-SB5C-835-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951459
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-SB5C-835-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35740 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

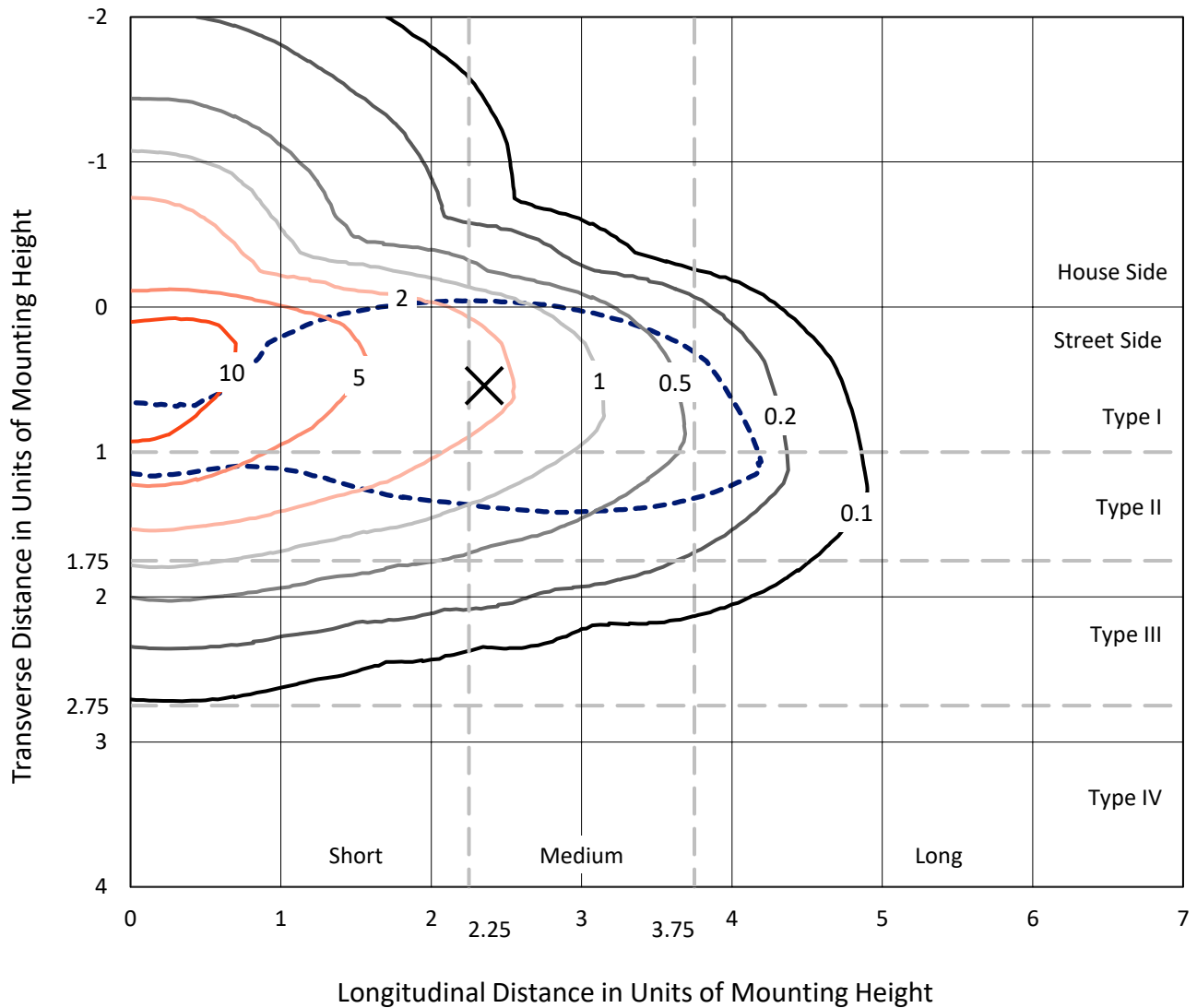
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

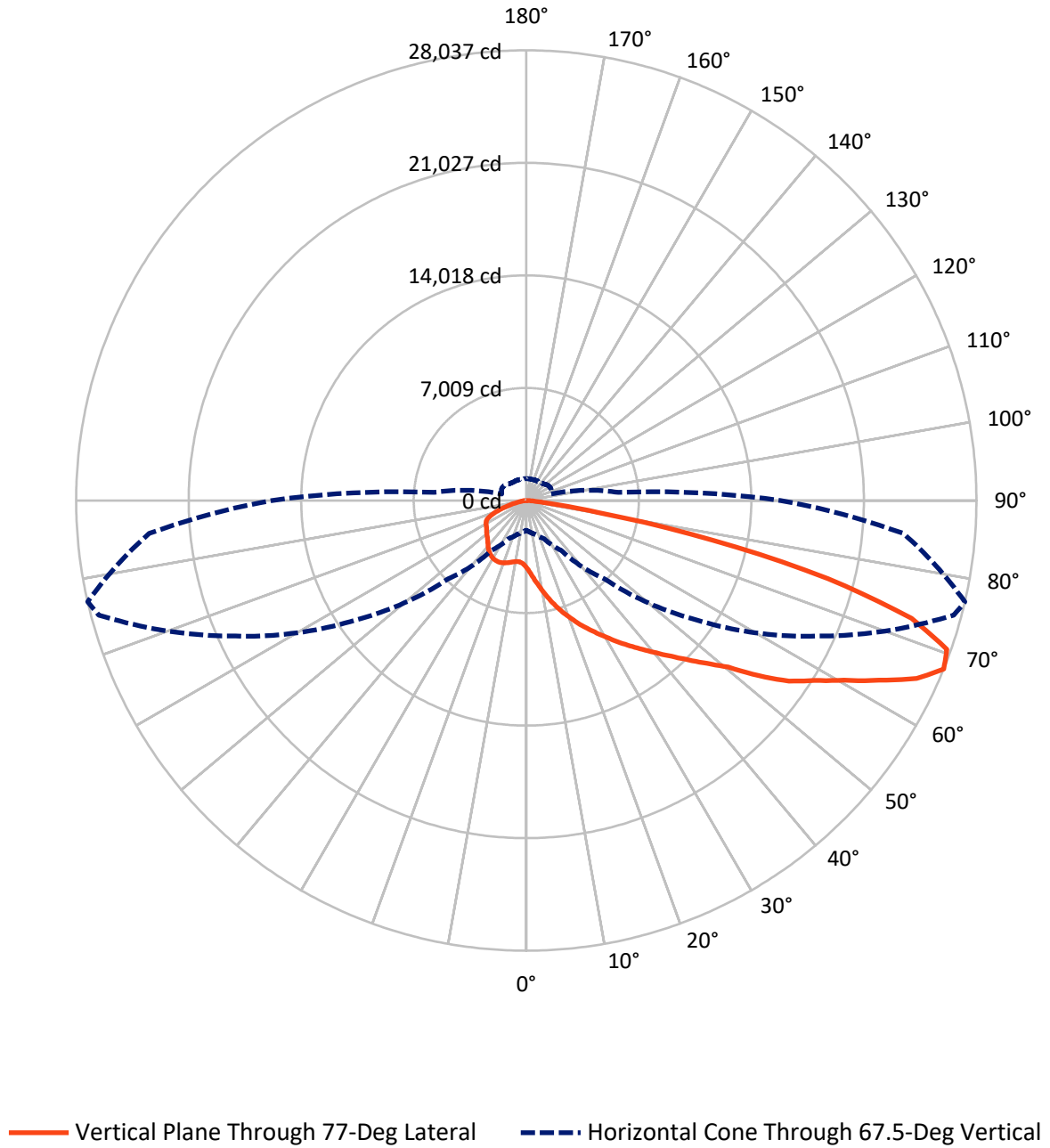
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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	6760.6	0.0	6760.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	28979.4	0.0	28979.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	35740.0	0.0	35740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.5	1.3
10°-20°	1614.8	4.5
20°-30°	3048.9	8.5
30°-40°	4911.7	13.7
40°-50°	6718.3	18.8
50°-60°	7578.3	21.2
60°-70°	7073.4	19.8
70°-80°	3877.4	10.8
80°-90°	467.7	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°	35740.0	100.0
0°-180°	35740.0	100.0

Coefficient of Utilization

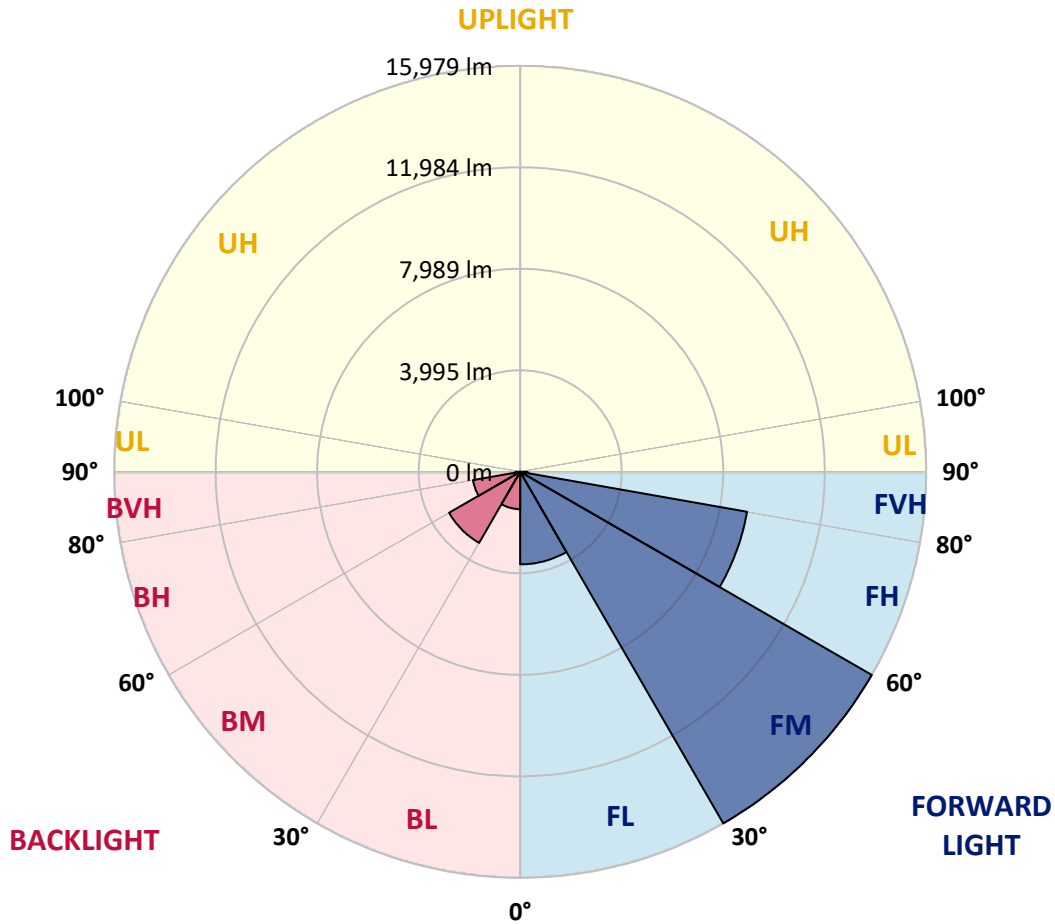


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3643.2	10.2			
FM (30°-60°)	15979.0	44.7			
FH (60°-80°)	9064.7	25.4			G4/12000
FVH (80°-90°)	292.5	0.8			G3/500
BL (0°-30°)	1469.9	4.1	B3/2500		
BM (30°-60°)	3229.4	9.0	B3/5000		
BH (60°-80°)	1886.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	175.2	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°	4193.4	4193.4	4193.4	4193.4	4193.4	4193.4	4193.4	4193.4	4193.4	4193.4
2.5°	5250.5	5287.4	5241.3	5241.3	5086.3	5005.2	4850.2	4732.1	4520.0	4483.1
5°	6206.2	6252.3	6187.7	6160.1	5977.4	5809.5	5549.4	5293.0	4914.8	4876.0
7.5°	6946.0	7005.0	6947.8	6918.3	6756.0	6567.8	6263.4	5905.5	5372.3	5296.7
10°	7549.2	7558.5	7540.0	7551.1	7423.8	7268.8	6957.0	6540.1	5874.1	5770.8
12.5°	7890.6	7933.0	7969.9	8036.3	8014.2	7918.2	7637.8	7139.7	6405.4	6272.6
15°	8051.1	8124.9	8207.9	8361.0	8484.6	8508.6	8294.6	7783.5	6946.0	6785.5
17.5°	8108.2	8178.4	8309.3	8530.7	8796.4	8975.3	8879.4	8409.0	7481.0	7296.5
20°	8397.9	8418.2	8497.5	8707.8	8995.6	9292.7	9364.6	9010.4	8010.5	7802.0
22.5°	9017.8	8977.2	8999.3	9095.3	9301.9	9589.7	9753.9	9541.7	8554.7	8314.9
25°	10041.7	9923.6	9805.5	9694.8	9800.0	9962.4	10148.7	10073.0	9124.8	8820.4
27.5°	11334.9	11191.0	10930.9	10567.5	10440.2	10497.4	10580.4	10565.6	9652.4	9344.3
30°	12607.9	12440.0	12130.1	11604.3	11268.5	11117.2	11054.5	11012.1	10226.2	9897.8
32.5°	13624.4	13491.6	13187.2	12598.7	12111.6	11853.4	11644.9	11493.6	10825.8	10497.4
35°	14513.7	14390.1	14041.4	13399.4	12869.9	12595.0	12322.0	11999.1	11449.3	11117.2
37.5°	15325.4	15201.8	14724.0	14056.1	13523.0	13332.9	13089.4	12541.5	12074.7	11761.1
40°	15838.3	15810.6	15364.2	14607.8	14054.3	13960.2	13879.0	13170.6	12768.4	12476.9
42.5°	15969.3	16030.2	15675.9	15054.2	14526.6	14450.9	14641.0	13882.7	13547.0	13268.4
45°	15653.8	15829.1	15596.6	15174.1	14862.4	14821.8	15316.2	14661.3	14408.5	14153.9
47.5°	14855.0	15152.0	15056.1	14997.0	14952.8	15128.0	15910.2	15487.8	15384.5	15163.1
50°	13242.5	13805.2	13973.1	14345.8	14773.8	15366.0	16450.8	16389.9	16524.6	16301.4
52.5°	10454.9	11229.8	12203.9	13137.4	14224.0	15286.7	17044.8	17685.0	18253.2	18131.5
55°	8630.3	8979.0	9728.1	11440.1	13157.7	14952.8	17312.4	18731.1	19969.0	19860.1
57.5°	7228.2	7540.0	8001.2	9431.0	11545.3	14194.5	17478.4	19369.4	21144.2	21133.1
60°	5724.7	6054.9	6527.2	7540.0	9661.6	12884.6	17441.5	20096.3	22644.1	22736.3
62.5°	4027.4	4390.8	4914.8	5859.3	7737.4	11187.4	16688.8	20622.1	24409.6	24660.5
65°	2647.4	2887.2	3282.0	4097.5	5765.3	9004.9	15251.6	20690.3	26298.8	26723.1
67.5°	1855.9	1948.2	2180.6	2623.4	3800.5	6905.4	12962.1	19983.7	27558.8	28036.6
70°	1448.2	1494.4	1612.4	1789.5	2387.3	4643.6	9932.8	18146.2	27289.5	27787.6
72.5°	1250.8	1295.1	1339.4	1361.5	1601.4	2866.9	6728.3	15172.3	24752.8	25090.4
75°	1134.6	1145.7	1182.6	1175.2	1221.3	1859.6	3883.5	11054.5	19529.9	19413.7
77.5°	953.8	968.6	1029.4	1020.2	1084.8	1271.1	2016.5	7134.2	12661.4	11871.8
80°	808.1	815.4	881.9	870.8	942.7	920.6	1029.4	3636.3	5370.4	4549.5
82.5°	280.4	346.8	673.4	693.7	719.5	557.2	594.1	1483.3	1640.1	1256.4
85°	136.5	145.7	343.1	487.0	485.2	280.4	289.6	529.5	516.6	405.9
87.5°	22.1	27.7	40.6	190.0	151.3	73.8	99.6	103.3	107.0	92.2
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°
4193.4	0°	4193.4	4193.4	4193.4	4193.4	4193.4	4193.4	4193.4	4193.4	4193.4	4193.4
4342.8	2.5°	4239.5	4147.3	3953.6	3774.6	3634.4	3499.7	3424.1	3359.5	3322.6	3315.2
4545.8	5°	4353.9	4163.9	3811.5	3514.5	3320.8	3176.9	3101.2	3053.3	3029.3	3014.5
4818.8	7.5°	4518.1	4239.5	3737.7	3400.1	3197.2	3093.9	3055.1	3047.7	3045.9	3047.7
5149.1	10°	4745.0	4363.1	3730.3	3372.4	3202.7	3145.5	3143.7	3145.5	3152.9	3154.7
5508.8	12.5°	4990.4	4490.4	3759.9	3396.4	3272.8	3241.5	3235.9	3234.1	3239.6	3243.3
5872.3	15°	5257.9	4658.3	3809.7	3448.1	3350.3	3317.1	3311.6	3300.5	3298.6	3296.8
6254.1	17.5°	5532.8	4824.4	3865.0	3503.4	3400.1	3354.0	3333.7	3307.9	3287.6	3282.0
6648.9	20°	5811.4	4988.6	3903.8	3531.1	3403.8	3339.2	3298.6	3254.4	3219.3	3199.0
7047.4	22.5°	6108.4	5160.1	3927.7	3523.7	3370.6	3282.0	3208.2	3156.6	3103.1	3068.0
7449.6	25°	6398.0	5309.6	3925.9	3485.0	3306.0	3193.5	3099.4	3033.0	2959.2	2922.3
7864.7	27.5°	6676.6	5444.2	3879.8	3416.7	3213.8	3088.3	2975.8	2896.5	2824.5	2789.5
8283.5	30°	6964.4	5556.8	3807.8	3317.1	3104.9	2966.6	2843.0	2774.7	2710.1	2676.9
8726.3	32.5°	7250.4	5660.1	3706.4	3193.5	2979.5	2846.6	2724.9	2662.2	2623.4	2623.4
9202.3	35°	7552.9	5732.0	3571.7	3049.6	2846.6	2719.4	2623.4	2586.5	2582.8	2560.7
9705.9	37.5°	7872.1	5778.2	3407.5	2902.0	2715.7	2595.7	2566.2	2522.0	2485.1	2437.1
10259.4	40°	8207.9	5824.3	3210.1	2748.9	2577.3	2510.9	2498.0	2438.9	2333.8	2215.7
10886.6	42.5°	8615.6	5855.6	3005.3	2595.7	2431.6	2409.4	2427.9	2326.4	2158.5	2070.0
11643.0	45°	9087.9	5907.3	2817.1	2444.5	2282.1	2282.1	2359.6	2226.8	2088.4	2033.1
12506.4	47.5°	9700.4	6027.2	2641.9	2278.4	2143.8	2180.6	2208.3	2106.9	2029.4	1961.1
13558.0	50°	10585.9	6315.0	2461.1	2110.5	2038.6	2112.4	2073.6	2014.6	1924.2	1868.9
15229.5	52.5°	11685.5	6484.8	2300.6	1959.3	1948.2	2022.0	1966.6	1911.3	1843.0	1769.2
16496.9	55°	12434.5	6516.1	2165.9	1848.6	1887.3	1879.9	1859.6	1809.8	1772.9	1675.2
17747.7	57.5°	13272.1	6578.8	2055.2	1782.2	1848.6	1767.4	1760.0	1717.6	1669.6	1603.2
19273.5	60°	14273.8	6676.6	1959.3	1756.3	1815.4	1693.6	1656.7	1640.1	1592.1	1558.9
21109.1	62.5°	15366.0	6765.2	1861.5	1760.0	1776.6	1621.6	1566.3	1560.8	1531.3	1520.2
22832.2	65°	16111.3	6523.5	1739.7	1756.3	1715.7	1547.9	1477.7	1475.9	1451.9	1448.2
23579.4	67.5°	15851.2	5757.9	1575.5	1704.7	1653.0	1474.1	1396.6	1389.2	1357.8	1359.7
22799.0	70°	14548.7	4665.7	1348.6	1577.4	1575.5	1407.6	1311.7	1287.7	1245.3	1252.7
19823.2	72.5°	12106.1	3457.3	1044.2	1365.2	1451.9	1346.8	1213.9	1175.2	1121.7	1129.1
14633.6	75°	8742.9	2350.4	760.1	1038.7	1263.7	1274.8	1118.0	1051.6	987.0	998.1
8145.1	77.5°	4473.8	1332.0	559.0	715.8	992.5	1158.6	1031.3	942.7	928.0	1031.3
2348.5	80°	1459.3	667.8	387.4	501.8	651.2	948.3	904.0	802.5	798.8	822.8
492.6	82.5°	435.4	282.3	249.1	330.2	359.8	726.9	780.4	607.0	522.1	549.8
164.2	85°	149.4	136.5	142.1	164.2	171.6	426.2	546.1	402.2	380.0	418.8
36.9	87.5°	35.1	48.0	40.6	36.9	36.9	103.3	212.2	167.9	232.5	155.0
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>
4193.4
3315.2
3012.7
3053.3
3156.6
3245.1
3295.0
3287.6
3206.4
3069.9
2922.3
2787.6
2675.1
2625.3
2555.2
2429.7
2199.1
2071.8
2042.3
1959.3
1863.3
1754.5
1677.0
1581.1
1568.1
1520.2
1446.4
1359.7
1260.1
1127.2
1001.8
1016.5
706.6
568.2
413.3
149.4
0.0

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