

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: P956793

Luminaire Tested: **GALN-SB9B-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956793
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-SB9B-830-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46941 lumens
Efficiency: N/A
Efficacy: 142.5 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

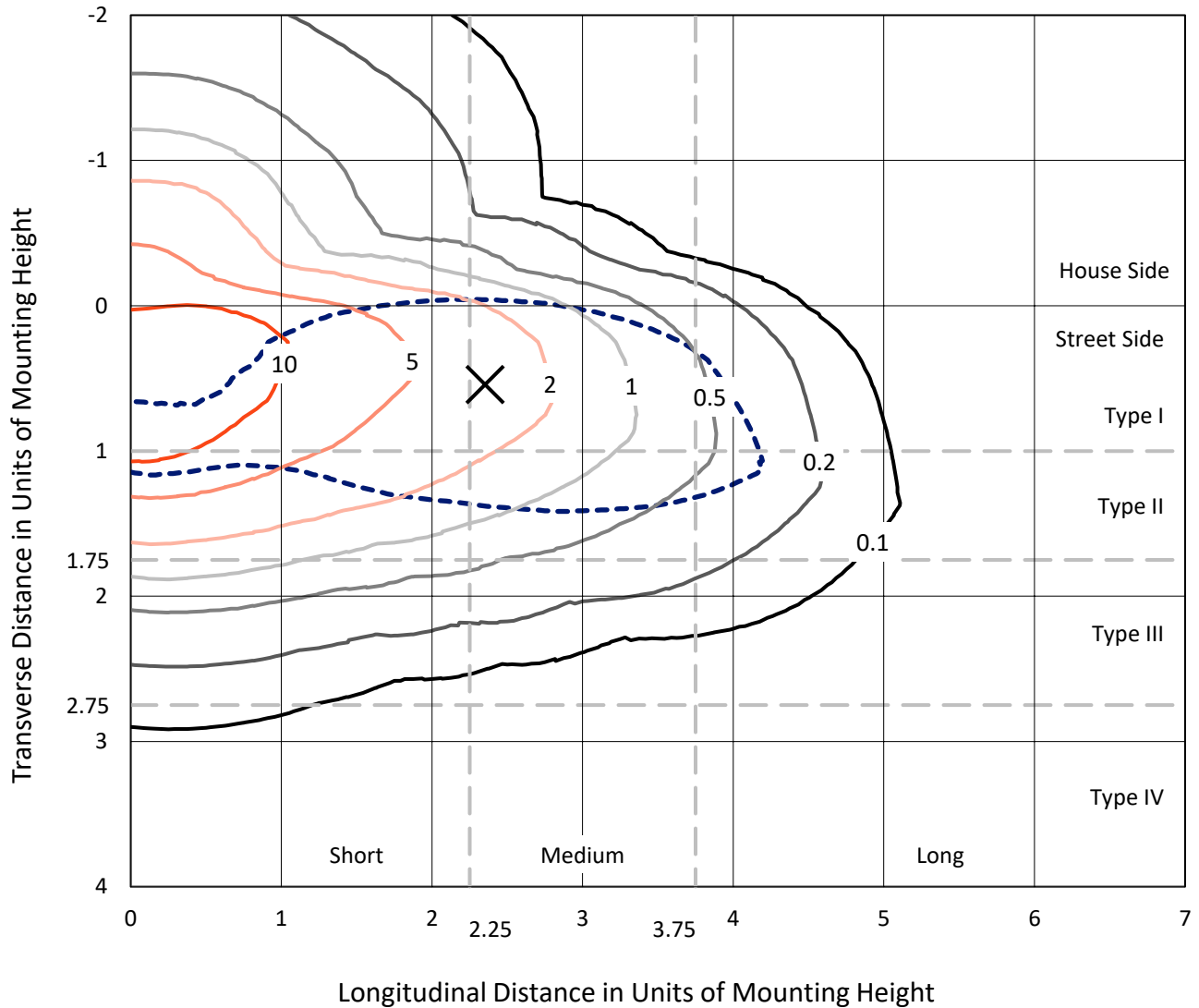
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

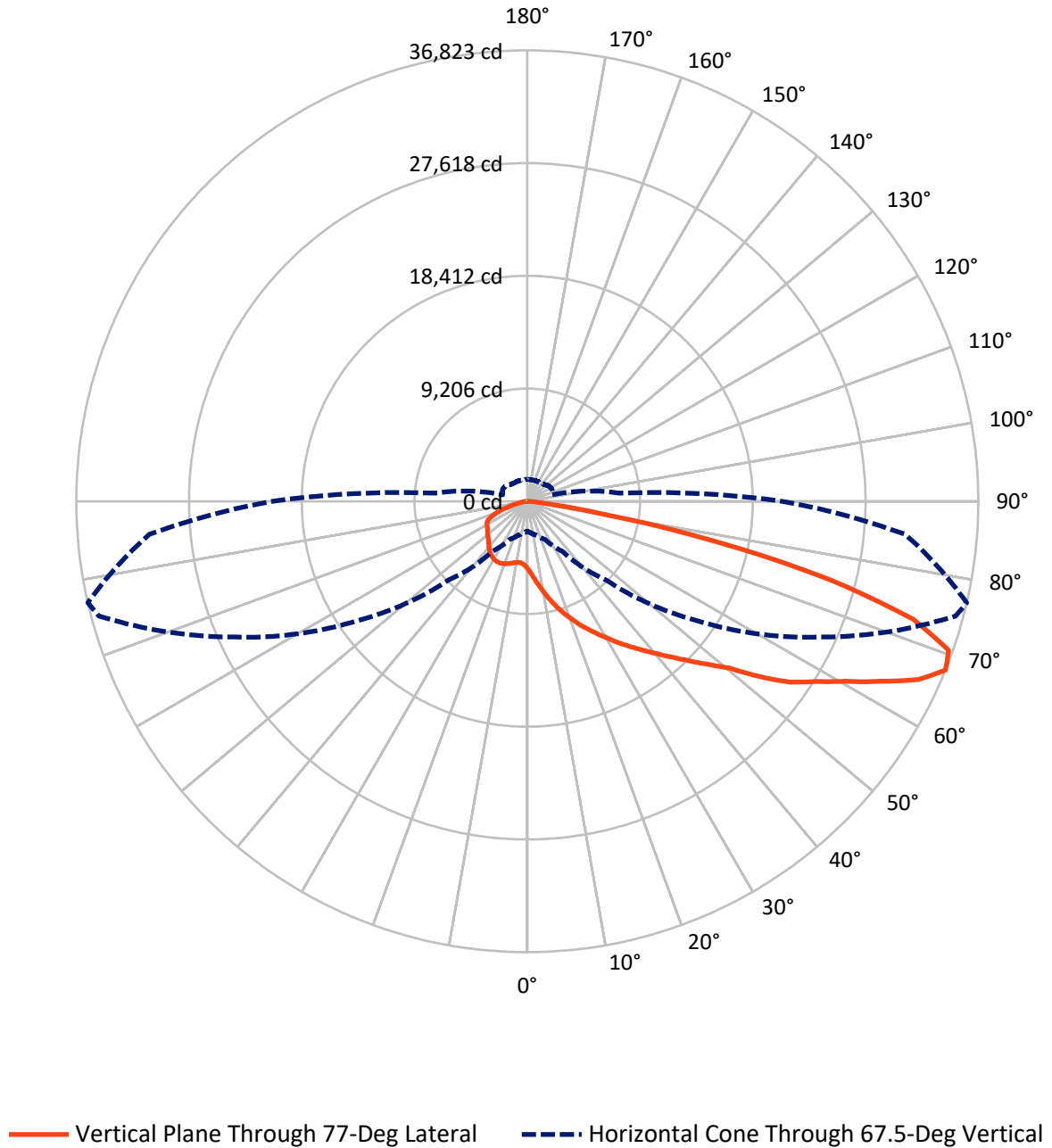
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 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	8879.4	0.0	8879.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	38061.6	0.0	38061.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	46941.0	0.0	46941.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.3	1.3
10°-20°	2120.9	4.5
20°-30°	4004.4	8.5
30°-40°	6451.0	13.7
40°-50°	8823.8	18.8
50°-60°	9953.4	21.2
60°-70°	9290.2	19.8
70°-80°	5092.6	10.8
80°-90°	614.3	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°	46941.0	100.0
0°-180°	46941.0	100.0

Coefficient of Utilization



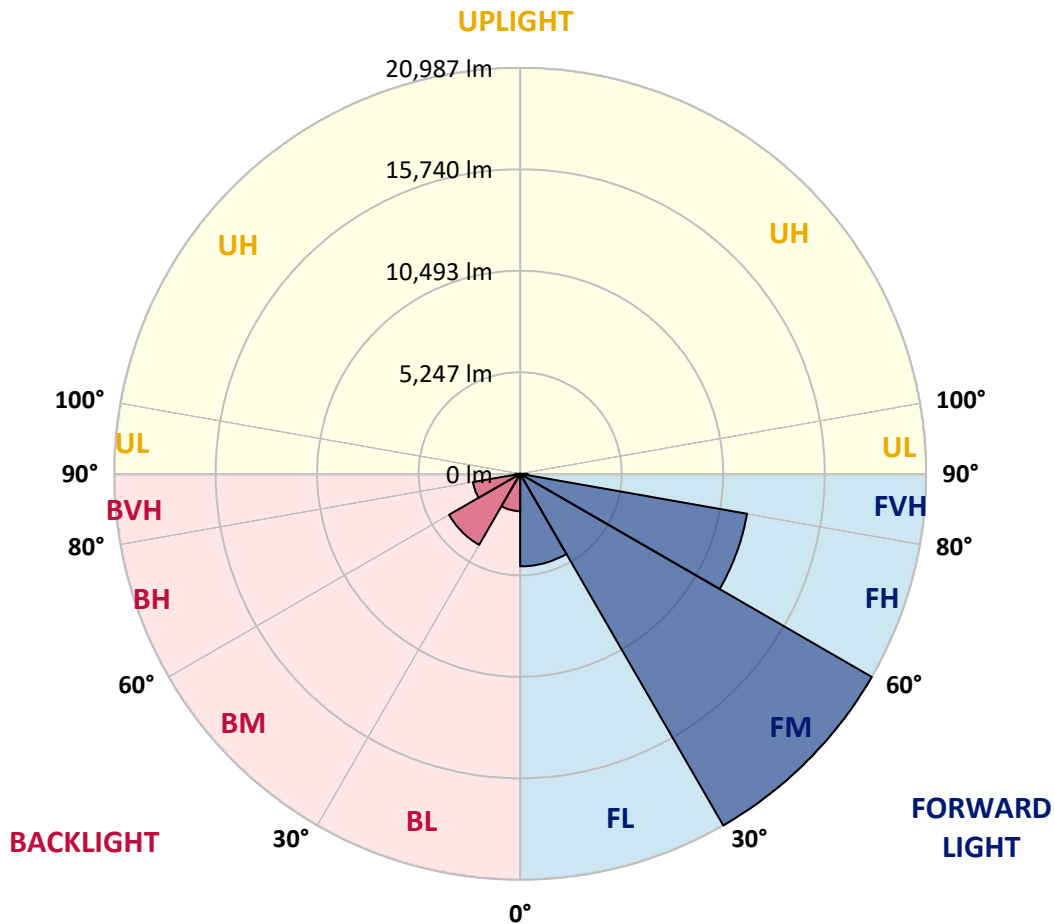
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4785.0	10.2			
FM (30°-60°)	20986.8	44.7			
FH (60°-80°)	11905.6	25.4			G4/12000
FVH (80°-90°)	384.2	0.8			G3/500
BL (0°-30°)	1930.6	4.1	B3/2500		
BM (30°-60°)	4241.4	9.0	B3/5000		
BH (60°-80°)	2477.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	230.1	0.5			G3/500
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°	5507.6	5507.6	5507.6	5507.6	5507.6	5507.6	5507.6	5507.6	5507.6	5507.6
2.5°	6896.1	6944.5	6883.9	6883.9	6680.4	6573.8	6370.3	6215.2	5936.5	5888.1
5°	8151.2	8211.8	8127.0	8090.6	7850.7	7630.2	7288.6	6951.8	6455.1	6404.2
7.5°	9122.9	9200.4	9125.3	9086.5	8873.3	8626.1	8226.3	7756.2	7056.0	6956.6
10°	9915.2	9927.3	9903.1	9917.6	9750.4	9546.9	9137.4	8589.8	7715.1	7579.4
12.5°	10363.5	10419.2	10467.7	10554.9	10525.8	10399.8	10031.5	9377.3	8412.9	8238.4
15°	10574.3	10671.2	10780.2	10981.4	11143.7	11175.2	10894.1	10222.9	9122.9	8912.1
17.5°	10649.4	10741.5	10913.5	11204.3	11553.2	11788.2	11662.2	11044.4	9825.5	9583.2
20°	11029.8	11056.5	11160.7	11436.9	11814.9	12205.0	12299.5	11834.3	10521.0	10247.2
22.5°	11844.0	11790.7	11819.7	11945.7	12217.1	12595.1	12810.8	12532.1	11235.8	10920.8
25°	13188.8	13033.7	12878.6	12733.2	12871.3	13084.6	13329.3	13230.0	11984.5	11584.7
27.5°	14887.3	14698.3	14356.7	13879.3	13712.2	13787.3	13896.3	13876.9	12677.5	12272.8
30°	16559.3	16338.8	15931.7	15241.1	14800.1	14601.4	14519.0	14463.3	13431.1	12999.8
32.5°	17894.4	17719.9	17320.1	16547.1	15907.5	15568.2	15294.4	15095.7	14218.6	13787.3
35°	19062.3	18899.9	18442.0	17598.8	16903.3	16542.3	16183.7	15759.6	15037.6	14601.4
37.5°	20128.4	19966.1	19338.5	18461.4	17761.1	17511.5	17191.7	16472.0	15859.0	15447.1
40°	20802.1	20765.7	20179.3	19185.9	18458.9	18335.4	18228.8	17298.3	16770.1	16387.2
42.5°	20974.1	21054.1	20588.8	19772.2	19079.3	18979.9	19229.5	18233.6	17792.6	17426.7
45°	20559.7	20789.9	20484.6	19929.7	19520.3	19466.9	20116.3	19256.1	18924.2	18589.8
47.5°	19510.6	19900.7	19774.7	19697.1	19639.0	19869.2	20896.6	20341.7	20206.0	19915.2
50°	17392.8	18131.8	18352.3	18841.8	19403.9	20181.7	21606.5	21526.6	21703.4	21410.2
52.5°	13731.5	14749.2	16028.6	17254.7	18681.9	20077.6	22386.7	23227.5	23973.9	23813.9
55°	11335.1	11793.1	12776.8	15025.5	17281.3	19639.0	22738.1	24601.4	26227.3	26084.3
57.5°	9493.6	9903.1	10508.9	12386.7	15163.6	18643.1	22956.2	25439.8	27770.8	27756.3
60°	7518.8	7952.5	8572.8	9903.1	12689.6	16922.7	22907.7	26394.5	29740.8	29861.9
62.5°	5289.6	5766.9	6455.1	7695.7	10162.4	14693.5	21919.1	27085.1	32059.6	32389.2
65°	3477.1	3792.1	4310.6	5381.6	7572.1	11827.0	20031.5	27174.7	34540.9	35098.2
67.5°	2437.6	2558.8	2864.1	3445.6	4991.5	9069.6	17024.5	26246.7	36195.8	36823.4
70°	1902.1	1962.7	2117.8	2350.4	3135.5	6098.9	13045.8	23833.3	35842.0	36496.3
72.5°	1642.8	1701.0	1759.1	1788.2	2103.2	3765.5	8836.9	19927.3	32510.3	32953.7
75°	1490.2	1504.7	1553.2	1543.5	1604.1	2442.5	5100.6	14519.0	25650.6	25498.0
77.5°	1252.7	1272.1	1352.1	1340.0	1424.8	1669.5	2648.4	9370.0	16629.5	15592.5
80°	1061.3	1071.0	1158.2	1143.7	1238.2	1209.1	1352.1	4775.9	7053.6	5975.3
82.5°	368.3	455.5	884.4	911.1	945.0	731.8	780.2	1948.1	2154.1	1650.1
85°	179.3	191.4	450.7	639.7	637.3	368.3	380.4	695.4	678.5	533.1
87.5°	29.1	36.3	53.3	249.6	198.7	96.9	130.8	135.7	140.5	121.2
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°
5507.6	0°	5507.6	5507.6	5507.6	5507.6	5507.6	5507.6	5507.6	5507.6	5507.6	5507.6
5703.9	2.5°	5568.2	5447.1	5192.6	4957.6	4773.4	4596.6	4497.2	4412.4	4363.9	4354.3
5970.4	5°	5718.4	5468.9	5006.1	4615.9	4361.5	4172.5	4073.2	4010.2	3978.7	3959.3
6329.1	7.5°	5934.1	5568.2	4909.1	4465.7	4199.2	4063.5	4012.6	4002.9	4000.5	4002.9
6762.8	10°	6232.1	5730.6	4899.4	4429.4	4206.4	4131.3	4128.9	4131.3	4141.0	4143.4
7235.3	12.5°	6554.4	5897.8	4938.2	4460.9	4298.5	4257.3	4250.1	4247.6	4254.9	4259.8
7712.6	15°	6905.7	6118.3	5003.6	4528.7	4400.3	4356.7	4349.4	4334.9	4332.4	4330.0
8214.2	17.5°	7266.8	6336.3	5076.3	4601.4	4465.7	4405.1	4378.5	4344.6	4317.9	4310.6
8732.7	20°	7632.7	6552.0	5127.2	4637.8	4470.6	4385.8	4332.4	4274.3	4228.3	4201.6
9256.1	22.5°	8022.8	6777.3	5158.7	4628.1	4426.9	4310.6	4213.7	4145.9	4075.6	4029.6
9784.4	25°	8403.2	6973.6	5156.3	4577.2	4342.1	4194.3	4070.8	3983.5	3886.6	3838.1
10329.5	27.5°	8769.1	7150.5	5095.7	4487.5	4221.0	4056.2	3908.4	3804.2	3709.7	3663.7
10879.6	30°	9147.1	7298.3	5001.2	4356.7	4078.0	3896.3	3734.0	3644.3	3559.5	3515.9
11461.1	32.5°	9522.7	7434.0	4867.9	4194.3	3913.3	3738.8	3578.9	3496.5	3445.6	3445.6
12086.3	35°	9920.0	7528.5	4691.1	4005.3	3738.8	3571.6	3445.6	3397.1	3392.3	3363.2
12747.8	37.5°	10339.2	7589.1	4475.4	3811.5	3566.8	3409.3	3370.5	3312.3	3263.9	3200.9
13474.7	40°	10780.2	7649.6	4216.1	3610.4	3385.0	3297.8	3280.8	3203.3	3065.2	2910.1
14298.5	42.5°	11315.7	7690.8	3947.2	3409.3	3193.6	3164.5	3188.8	3055.5	2835.0	2718.7
15292.0	45°	11936.0	7758.7	3700.0	3210.6	2997.3	2997.3	3099.1	2924.6	2742.9	2670.2
16426.0	47.5°	12740.5	7916.2	3469.8	2992.5	2815.6	2864.1	2900.4	2767.1	2665.4	2575.7
17807.1	50°	13903.6	8294.2	3232.4	2772.0	2677.5	2774.4	2723.5	2646.0	2527.3	2454.6
20002.4	52.5°	15347.7	8517.1	3021.6	2573.3	2558.8	2655.7	2583.0	2510.3	2420.6	2323.7
21667.1	55°	16331.5	8558.3	2844.7	2427.9	2478.8	2469.1	2442.5	2377.0	2328.6	2200.1
23309.9	57.5°	17431.6	8640.7	2699.3	2340.7	2427.9	2321.3	2311.6	2255.9	2192.9	2105.6
25313.8	60°	18747.3	8769.1	2573.3	2306.8	2384.3	2224.4	2175.9	2154.1	2091.1	2047.5
27724.8	62.5°	20181.7	8885.4	2444.9	2311.6	2333.4	2129.9	2057.2	2049.9	2011.1	1996.6
29987.9	65°	21160.7	8568.0	2285.0	2306.8	2253.5	2033.0	1940.9	1938.5	1907.0	1902.1
30969.3	67.5°	20819.0	7562.4	2069.3	2238.9	2171.1	1936.0	1834.3	1824.6	1783.4	1785.8
29944.3	70°	19108.3	6127.9	1771.3	2071.7	2069.3	1848.8	1722.8	1691.3	1635.6	1645.3
26035.9	72.5°	15900.2	4540.8	1371.5	1793.1	1907.0	1768.8	1594.4	1543.5	1473.2	1482.9
19219.8	75°	11482.9	3087.0	998.3	1364.2	1659.8	1674.3	1468.4	1381.1	1296.3	1310.9
10697.9	77.5°	5875.9	1749.5	734.2	940.2	1303.6	1521.7	1354.5	1238.2	1218.8	1354.5
3084.6	80°	1916.6	877.2	508.8	659.1	855.3	1245.5	1187.3	1054.0	1049.2	1080.7
647.0	82.5°	571.8	370.7	327.1	433.7	472.5	954.7	1025.0	797.2	685.7	722.1
215.7	85°	196.3	179.3	186.6	215.7	225.3	559.7	717.2	528.2	499.2	550.0
48.5	87.5°	46.0	63.0	53.3	48.5	48.5	135.7	278.7	220.5	305.3	203.5
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>
5507.6
4354.3
3956.9
4010.2
4145.9
4262.2
4327.6
4317.9
4211.3
4032.0
3838.1
3661.3
3513.5
3448.0
3356.0
3191.2
2888.3
2721.1
2682.3
2573.3
2447.3
2304.3
2202.6
2076.6
2059.6
1996.6
1899.7
1785.8
1655.0
1480.5
1315.7
1335.1
928.0
746.3
542.8
196.3
0.0

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