

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: P955365

Luminaire Tested: **GALN-SB8B-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955365
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-SB8B-830-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 41673 lumens
Efficiency: N/A
Efficacy: 142.3 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

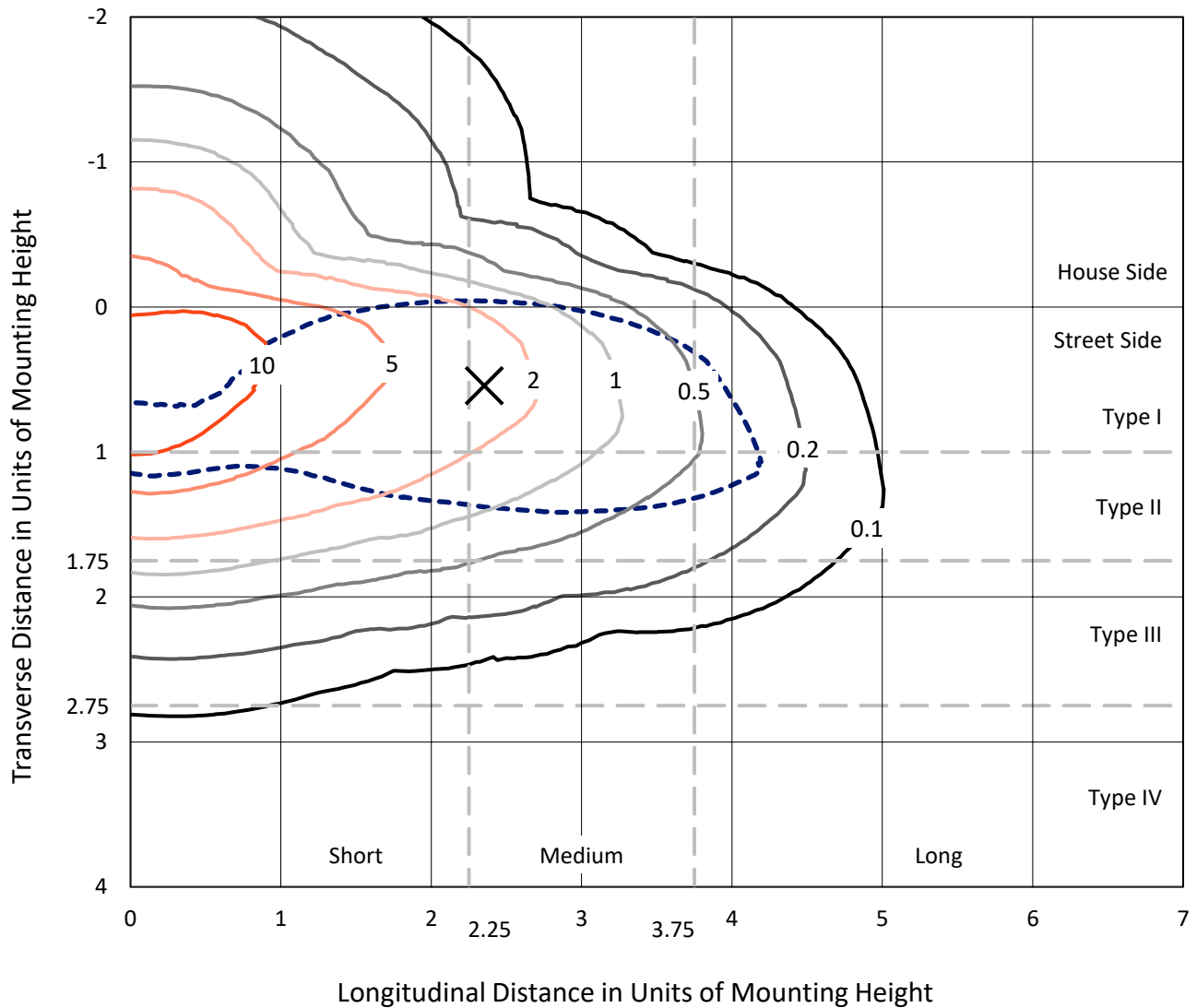
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

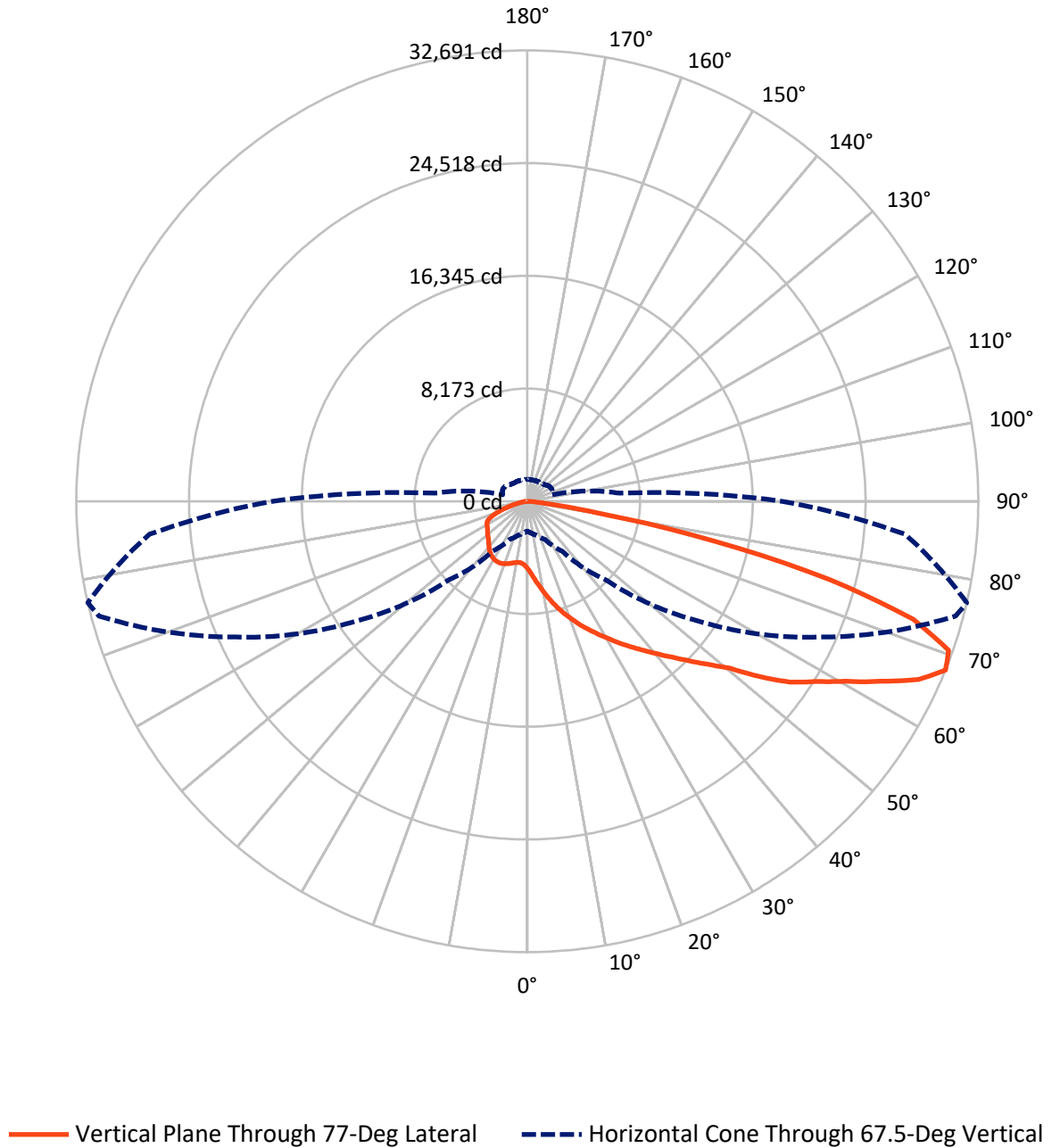
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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	7882.8	0.0	7882.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	33790.1	0.0	33790.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	41673.0	0.0	41673.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.1	1.3
10°-20°	1882.9	4.5
20°-30°	3555.0	8.5
30°-40°	5727.1	13.7
40°-50°	7833.6	18.8
50°-60°	8836.3	21.2
60°-70°	8247.6	19.8
70°-80°	4521.1	10.8
80°-90°	545.3	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°	41673.0	100.0
0°-180°	41673.0	100.0

Coefficient of Utilization



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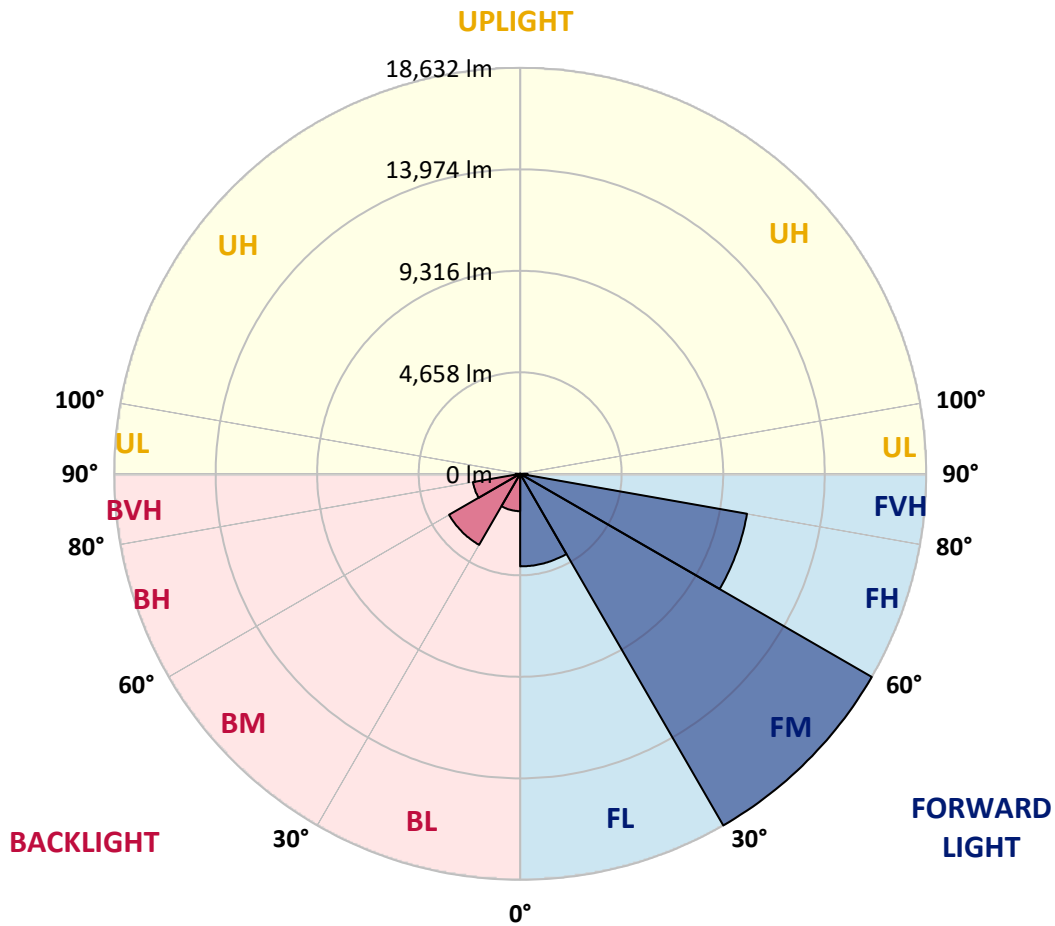
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4248.0	10.2			
FM (30°-60°)	18631.5	44.7			
FH (60°-80°)	10569.5	25.4			G4/12000
FVH (80°-90°)	341.0	0.8			G3/500
BL (0°-30°)	1713.9	4.1	B3/2500		
BM (30°-60°)	3765.4	9.0	B3/5000		
BH (60°-80°)	2199.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	204.3	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°	4889.5	4889.5	4889.5	4889.5	4889.5	4889.5	4889.5	4889.5	4889.5	4889.5
2.5°	6122.1	6165.2	6111.4	6111.4	5930.7	5836.0	5655.3	5517.7	5270.3	5227.3
5°	7236.4	7290.2	7214.9	7182.7	6969.7	6773.9	6470.6	6171.6	5730.6	5685.5
7.5°	8099.0	8167.9	8101.2	8066.8	7877.5	7658.1	7303.1	6885.8	6264.1	6175.9
10°	8802.5	8813.2	8791.7	8804.6	8656.2	8475.5	8111.9	7625.8	6849.2	6728.8
12.5°	9200.4	9249.9	9292.9	9370.4	9344.5	9232.7	8905.7	8324.9	7468.8	7313.9
15°	9387.6	9473.6	9570.4	9749.0	9893.1	9921.1	9671.5	9075.7	8099.0	7911.9
17.5°	9454.3	9536.0	9688.7	9946.9	10256.6	10465.3	10353.4	9804.9	8722.9	8507.8
20°	9792.0	9815.6	9908.1	10153.4	10489.0	10835.3	10919.2	10506.2	9340.2	9097.2
22.5°	10514.8	10467.4	10493.3	10605.1	10846.0	11181.6	11373.1	11125.7	9974.8	9695.2
25°	11708.6	11571.0	11433.3	11304.2	11426.8	11616.1	11833.4	11745.2	10639.5	10284.6
27.5°	13216.6	13048.8	12745.5	12321.7	12173.3	12240.0	12336.8	12319.6	11254.8	10895.5
30°	14700.9	14505.1	14143.7	13530.7	13139.2	12962.8	12889.6	12840.1	11923.8	11540.9
32.5°	15886.2	15731.3	15376.3	14690.1	14122.2	13821.1	13578.0	13401.6	12622.9	12240.0
35°	16923.0	16778.9	16372.3	15623.7	15006.3	14685.8	14367.5	13991.0	13350.0	12962.8
37.5°	17869.5	17725.4	17168.2	16389.5	15767.8	15546.3	15262.3	14623.4	14079.2	13713.5
40°	18467.5	18435.3	17914.7	17032.7	16387.4	16277.7	16183.0	15357.0	14888.0	14548.1
42.5°	18620.3	18691.2	18278.2	17553.3	16938.1	16849.9	17071.4	16187.3	15795.8	15471.0
45°	18252.4	18456.8	18185.7	17693.1	17329.6	17282.2	17858.8	17095.1	16800.4	16503.5
47.5°	17321.0	17667.3	17555.4	17486.6	17435.0	17639.3	18551.4	18058.8	17938.3	17680.2
50°	15440.9	16097.0	16292.7	16727.3	17226.3	17916.8	19181.7	19110.7	19267.7	19007.5
52.5°	12190.5	13094.0	14229.8	15318.3	16585.3	17824.3	19874.4	20620.8	21283.4	21141.4
55°	10063.0	10469.6	11343.0	13339.2	15341.9	17435.0	20186.3	21840.5	23283.9	23157.0
57.5°	8428.2	8791.7	9329.5	10996.6	13461.8	16550.9	20379.9	22584.8	24654.2	24641.3
60°	6675.0	7060.0	7610.7	8791.7	11265.5	15023.6	20336.9	23432.4	26403.1	26510.6
62.5°	4695.9	5119.7	5730.6	6832.0	9021.9	13044.5	19459.2	24045.4	28461.7	28754.3
65°	3086.9	3366.5	3826.9	4777.7	6722.3	10499.7	17783.5	24125.0	30664.5	31159.2
67.5°	2164.0	2271.6	2542.6	3058.9	4431.3	8051.7	15113.9	23301.1	32133.7	32690.9
70°	1688.6	1742.4	1880.1	2086.6	2783.6	5414.4	11581.7	21158.6	31819.6	32400.4
72.5°	1458.5	1510.1	1561.7	1587.5	1867.2	3342.9	7845.2	17691.0	28861.8	29255.5
75°	1323.0	1335.9	1378.9	1370.3	1424.1	2168.3	4528.1	12889.6	22772.0	22636.4
77.5°	1112.1	1129.3	1200.3	1189.6	1264.9	1482.1	2351.2	8318.5	14763.3	13842.6
80°	942.2	950.8	1028.2	1015.3	1099.2	1073.4	1200.3	4239.9	6262.0	5304.7
82.5°	327.0	404.4	785.2	808.8	838.9	649.6	692.7	1729.5	1912.4	1464.9
85°	159.2	169.9	400.1	567.9	565.7	327.0	337.7	617.4	602.3	473.3
87.5°	25.8	32.3	47.3	221.6	176.4	86.0	116.2	120.5	124.8	107.6
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°
4889.5	0°	4889.5	4889.5	4889.5	4889.5	4889.5	4889.5	4889.5	4889.5	4889.5	4889.5
5063.8	2.5°	4943.3	4835.8	4609.9	4401.2	4237.7	4080.7	3992.5	3917.2	3874.2	3865.6
5300.4	5°	5076.7	4855.1	4444.3	4097.9	3872.0	3704.3	3616.1	3560.1	3532.2	3515.0
5618.8	7.5°	5268.1	4943.3	4358.2	3964.5	3727.9	3607.5	3562.3	3553.7	3551.5	3553.7
6003.8	10°	5532.7	5087.4	4349.6	3932.3	3734.4	3667.7	3665.5	3667.7	3676.3	3678.4
6423.3	12.5°	5818.8	5235.9	4384.0	3960.2	3816.1	3779.6	3773.1	3770.9	3777.4	3781.7
6847.1	15°	6130.7	5431.6	4442.1	4020.5	3906.5	3867.7	3861.3	3848.4	3846.2	3844.1
7292.4	17.5°	6451.3	5625.2	4506.6	4085.0	3964.5	3910.8	3887.1	3857.0	3833.3	3826.9
7752.7	20°	6776.1	5816.7	4551.8	4117.3	3968.9	3893.6	3846.2	3794.6	3753.7	3730.1
8217.3	22.5°	7122.4	6016.7	4579.8	4108.7	3930.1	3826.9	3740.8	3680.6	3618.2	3577.3
8686.3	25°	7460.1	6191.0	4577.6	4063.5	3854.8	3723.6	3613.9	3536.5	3450.4	3407.4
9170.3	27.5°	7785.0	6348.0	4523.8	3983.9	3747.3	3601.0	3469.8	3377.3	3293.4	3252.5
9658.6	30°	8120.5	6479.2	4439.9	3867.7	3620.4	3459.0	3314.9	3235.3	3160.0	3121.3
10174.9	32.5°	8454.0	6599.7	4321.6	3723.6	3474.1	3319.2	3177.2	3104.1	3058.9	3058.9
10729.9	35°	8806.8	6683.6	4164.6	3555.8	3319.2	3170.8	3058.9	3015.9	3011.6	2985.8
11317.1	37.5°	9178.9	6737.4	3973.2	3383.7	3166.5	3026.7	2992.2	2940.6	2897.6	2841.7
11962.5	40°	9570.4	6791.1	3743.0	3205.2	3005.1	2927.7	2912.6	2843.8	2721.2	2583.5
12693.9	42.5°	10045.8	6827.7	3504.2	3026.7	2835.2	2809.4	2830.9	2712.6	2516.8	2413.6
13575.8	45°	10596.5	6887.9	3284.8	2850.3	2661.0	2661.0	2751.3	2596.4	2435.1	2370.6
14582.6	47.5°	11310.7	7027.8	3080.4	2656.7	2499.6	2542.6	2574.9	2456.6	2366.3	2286.7
15808.7	50°	12343.2	7363.3	2869.6	2460.9	2377.0	2463.1	2417.9	2349.0	2243.6	2179.1
17757.6	52.5°	13625.3	7561.3	2682.5	2284.5	2271.6	2357.6	2293.1	2228.6	2149.0	2062.9
19235.5	55°	14498.7	7597.8	2525.4	2155.4	2200.6	2192.0	2168.3	2110.3	2067.2	1953.2
20694.0	57.5°	15475.3	7671.0	2396.4	2078.0	2155.4	2060.8	2052.2	2002.7	1946.8	1869.3
22472.9	60°	16643.4	7785.0	2284.5	2047.9	2116.7	1974.7	1931.7	1912.4	1856.4	1817.7
24613.3	62.5°	17916.8	7888.2	2170.5	2052.2	2071.5	1890.9	1826.3	1819.9	1785.4	1772.5
26622.5	65°	18785.9	7606.4	2028.5	2047.9	2000.6	1804.8	1723.1	1720.9	1692.9	1688.6
27493.7	67.5°	18482.6	6713.7	1837.1	1987.7	1927.4	1718.8	1628.4	1619.8	1583.2	1585.4
26583.8	70°	16963.9	5440.2	1572.5	1839.2	1837.1	1641.3	1529.5	1501.5	1452.0	1460.6
23114.0	72.5°	14115.8	4031.2	1217.5	1591.8	1692.9	1570.3	1415.4	1370.3	1307.9	1316.5
17062.8	75°	10194.2	2740.6	886.3	1211.1	1473.5	1486.4	1303.6	1226.1	1150.9	1163.8
9497.3	77.5°	5216.5	1553.1	651.8	834.6	1157.3	1350.9	1202.5	1099.2	1082.0	1202.5
2738.4	80°	1701.6	778.7	451.7	585.1	759.4	1105.7	1054.1	935.7	931.4	959.4
574.4	82.5°	507.7	329.1	290.4	385.1	419.5	847.5	909.9	707.7	608.8	641.0
191.5	85°	174.2	159.2	165.6	191.5	200.1	496.9	636.7	468.9	443.1	488.3
43.0	87.5°	40.9	55.9	47.3	43.0	43.0	120.5	247.4	195.8	271.0	180.7
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>
4889.5
3865.6
3512.8
3560.1
3680.6
3783.9
3841.9
3833.3
3738.7
3579.5
3407.4
3250.4
3119.2
3061.1
2979.3
2833.0
2564.2
2415.7
2381.3
2284.5
2172.6
2045.7
1955.4
1843.5
1828.5
1772.5
1686.5
1585.4
1469.2
1314.3
1168.1
1185.3
823.9
662.6
481.9
174.2
0.0

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