

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: P951774

Luminaire Tested: **GALN-SB5D-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951774
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-SB5D-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45528 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

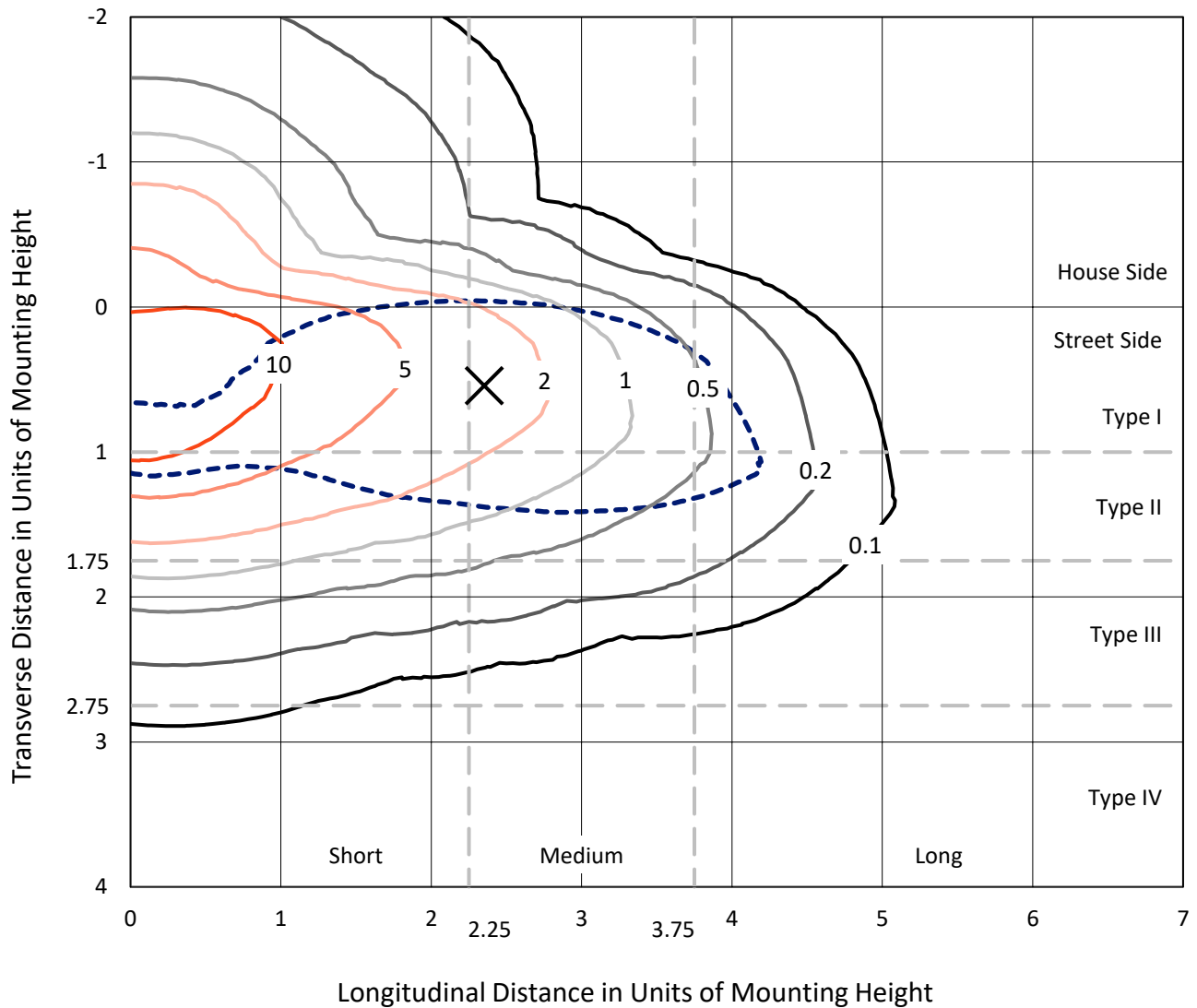
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

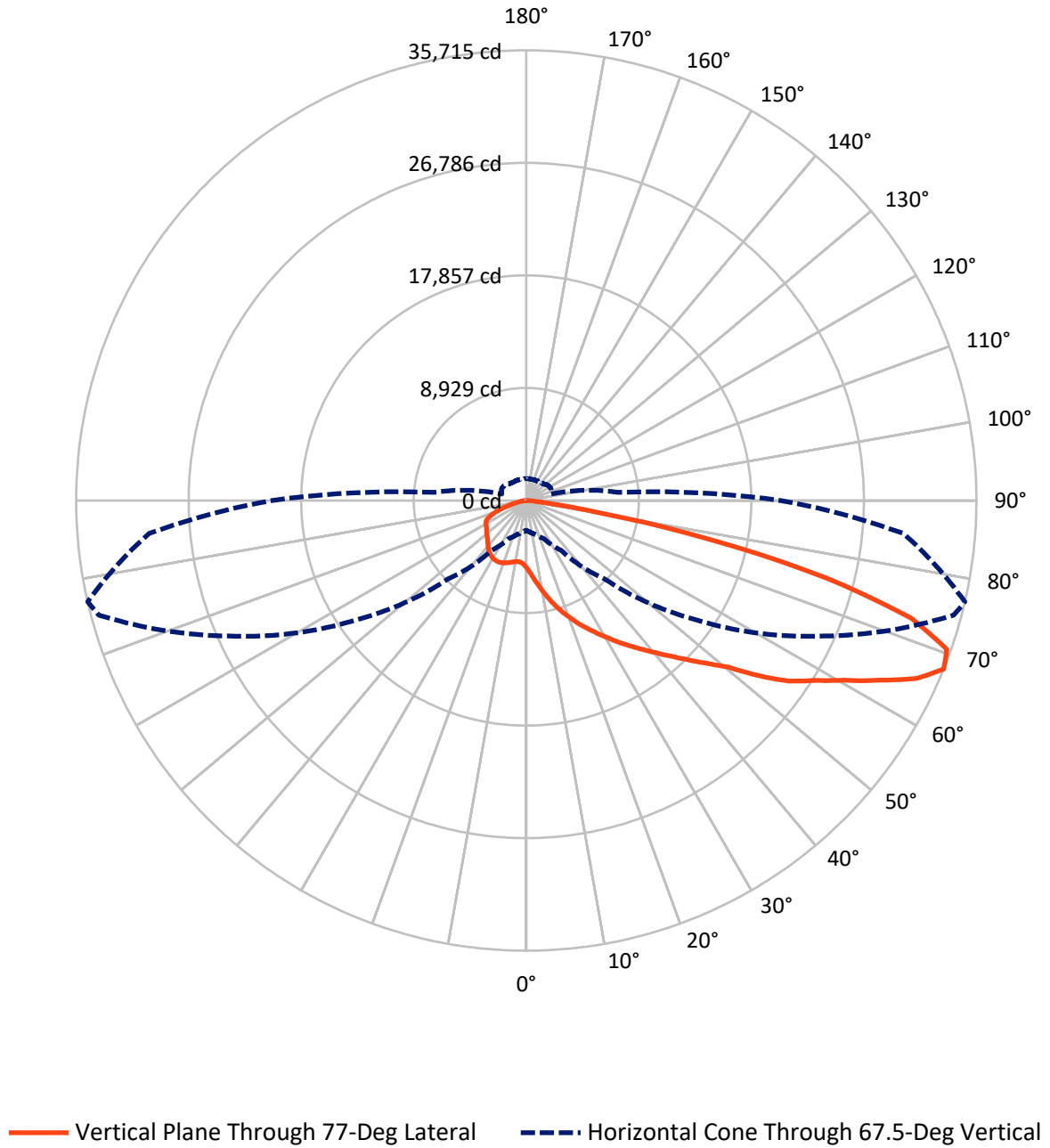
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 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	8612.1	0.0	8612.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	36915.9	0.0	36915.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	45528.0	0.0	45528.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.6	1.3
10°-20°	2057.0	4.5
20°-30°	3883.9	8.5
30°-40°	6256.9	13.7
40°-50°	8558.2	18.8
50°-60°	9653.7	21.2
60°-70°	9010.6	19.8
70°-80°	4939.3	10.8
80°-90°	595.8	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°	45528.0	100.0
0°-180°	45528.0	100.0

Coefficient of Utilization



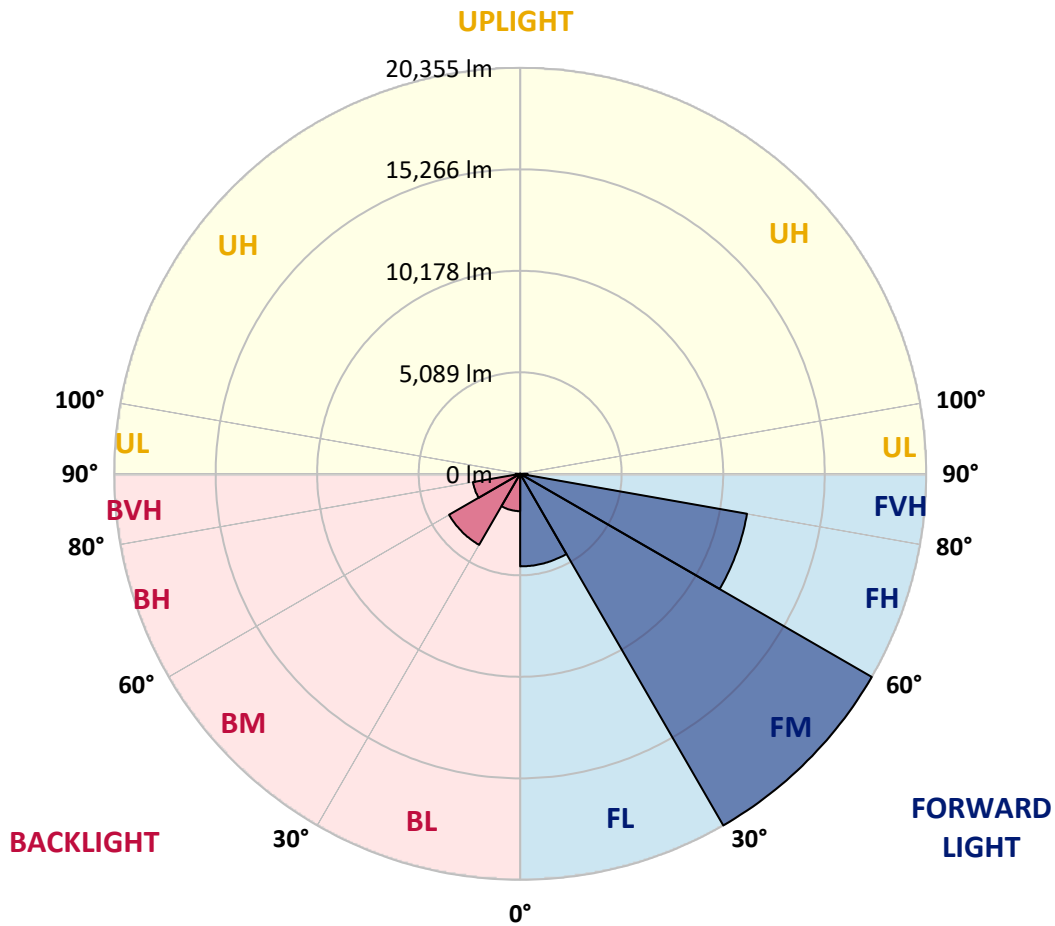
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4641.0	10.2			
FM (30°-60°)	20355.1	44.7			
FH (60°-80°)	11547.2	25.4			G4/12000
FVH (80°-90°)	372.6	0.8			G3/500
BL (0°-30°)	1872.5	4.1	B3/2500		
BM (30°-60°)	4113.8	9.0	B3/5000		
BH (60°-80°)	2402.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	223.2	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°	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8
2.5°	6688.5	6735.5	6676.7	6676.7	6479.3	6375.9	6178.5	6028.1	5757.8	5710.8
5°	7905.8	7964.6	7882.3	7847.1	7614.4	7400.6	7069.2	6742.5	6260.8	6211.4
7.5°	8848.2	8923.4	8850.6	8813.0	8606.2	8366.5	7978.7	7522.8	6843.6	6747.2
10°	9616.7	9628.5	9605.0	9619.1	9456.9	9259.5	8862.3	8331.2	7482.8	7351.2
12.5°	10051.5	10105.6	10152.6	10237.2	10209.0	10086.8	9729.5	9095.0	8159.7	7990.4
15°	10256.0	10350.0	10455.7	10650.8	10808.3	10838.8	10566.2	9915.2	8848.2	8643.8
17.5°	10328.8	10418.1	10585.0	10867.0	11205.4	11433.4	11311.2	10711.9	9529.8	9294.8
20°	10697.8	10723.6	10824.7	11092.6	11459.2	11837.6	11929.3	11478.0	10204.3	9938.7
22.5°	11487.4	11435.7	11463.9	11586.1	11849.4	12216.0	12425.1	12154.9	10897.6	10592.0
25°	12791.8	12641.4	12490.9	12349.9	12483.9	12690.7	12928.1	12831.7	11623.8	11236.0
27.5°	14439.2	14255.9	13924.5	13461.6	13299.4	13372.2	13478.0	13459.2	12295.9	11903.4
30°	16060.8	15846.9	15452.1	14782.3	14354.6	14161.9	14082.0	14027.9	13026.8	12608.5
32.5°	17355.7	17186.5	16798.7	16049.0	15428.6	15099.6	14834.0	14641.3	13790.6	13372.2
35°	18488.5	18331.0	17886.9	17069.0	16394.5	16044.3	15696.5	15285.3	14584.9	14161.9
37.5°	19522.5	19365.1	18756.4	17905.7	17226.5	16984.4	16674.2	15976.2	15381.6	14982.1
40°	20175.9	20140.6	19571.9	18608.3	17903.3	17783.4	17680.0	16777.6	16265.3	15893.9
42.5°	20342.7	20420.3	19969.1	19177.1	18504.9	18408.6	18650.6	17684.7	17257.0	16902.1
45°	19940.9	20164.1	19868.0	19329.8	18932.7	18881.0	19510.8	18676.5	18354.5	18030.2
47.5°	18923.3	19301.6	19179.4	19104.2	19047.8	19271.1	20267.5	19729.4	19597.7	19315.7
50°	16869.2	17586.0	17799.9	18274.6	18819.9	19574.2	20956.1	20878.6	21050.1	20765.8
52.5°	13318.2	14305.3	15546.1	16735.3	18119.5	19473.2	21712.9	22528.4	23252.2	23097.1
55°	10993.9	11438.1	12392.2	14573.2	16761.1	19047.8	22053.6	23860.9	25437.8	25299.2
57.5°	9207.8	9605.0	10192.5	12013.9	14707.1	18081.9	22265.1	24674.0	26934.9	26920.8
60°	7292.5	7713.1	8314.8	9605.0	12307.6	16413.3	22218.1	25600.0	28845.5	28963.0
62.5°	5130.3	5593.3	6260.8	7464.0	9856.5	14251.2	21259.3	26269.8	31094.6	31414.2
65°	3372.4	3678.0	4180.9	5219.6	7344.2	11471.0	19428.5	26356.7	33501.1	34041.7
67.5°	2364.2	2481.7	2777.9	3341.9	4841.3	8796.5	16512.0	25456.6	35106.3	35714.9
70°	1844.9	1903.6	2054.0	2279.6	3041.1	5915.3	12653.1	23115.9	34763.1	35397.7
72.5°	1593.4	1649.8	1706.2	1734.4	2039.9	3652.1	8570.9	19327.5	31531.7	31961.8
75°	1445.3	1459.4	1506.4	1497.0	1555.8	2368.9	4947.0	14082.0	24878.5	24730.4
77.5°	1215.0	1233.8	1311.4	1299.6	1381.9	1619.2	2568.7	9088.0	16129.0	15123.1
80°	1029.4	1038.8	1123.4	1109.3	1200.9	1172.7	1311.4	4632.1	6841.2	5795.4
82.5°	357.2	441.8	857.8	883.6	916.6	709.7	756.7	1889.5	2089.3	1600.4
85°	173.9	185.7	437.1	620.4	618.1	357.2	369.0	674.5	658.0	517.0
87.5°	28.2	35.3	51.7	242.1	192.7	94.0	126.9	131.6	136.3	117.5
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°
5341.8	0°	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8	5341.8
5532.2	2.5°	5400.6	5283.1	5036.3	4808.4	4629.8	4458.2	4361.8	4279.6	4232.6	4223.2
5790.7	5°	5546.3	5304.2	4855.4	4477.0	4230.2	4046.9	3950.6	3889.5	3858.9	3840.1
6138.5	7.5°	5755.5	5400.6	4761.4	4331.3	4072.8	3941.2	3891.8	3882.4	3880.1	3882.4
6559.2	10°	6044.5	5558.1	4752.0	4296.0	4079.8	4007.0	4004.6	4007.0	4016.4	4018.7
7017.5	12.5°	6357.1	5720.2	4789.6	4326.6	4169.1	4129.2	4122.1	4119.8	4126.8	4131.5
7480.5	15°	6697.9	5934.1	4853.0	4392.4	4267.8	4225.5	4218.5	4204.4	4202.0	4199.7
7966.9	17.5°	7048.0	6145.6	4923.5	4462.9	4331.3	4272.5	4246.7	4213.8	4187.9	4180.9
8469.9	20°	7402.9	6354.8	4972.9	4498.2	4336.0	4253.7	4202.0	4145.6	4101.0	4075.1
8977.5	22.5°	7781.3	6573.3	5003.4	4488.8	4293.7	4180.9	4086.9	4021.1	3952.9	3908.3
9489.8	25°	8150.3	6763.7	5001.1	4439.4	4211.4	4068.1	3948.2	3863.6	3769.6	3722.6
10018.6	27.5°	8505.1	6935.2	4942.3	4352.4	4093.9	3934.1	3790.8	3689.7	3598.1	3553.4
10552.1	30°	8871.7	7078.6	4850.7	4225.5	3955.3	3779.0	3621.6	3534.6	3452.3	3410.0
11116.1	32.5°	9236.0	7210.2	4721.4	4068.1	3795.5	3626.3	3471.1	3391.2	3341.9	3341.9
11722.5	35°	9621.4	7301.9	4549.9	3884.8	3626.3	3464.1	3341.9	3294.9	3290.2	3262.0
12364.0	37.5°	10028.0	7360.6	4340.7	3696.8	3459.4	3306.6	3269.0	3212.6	3165.6	3104.5
13069.1	40°	10455.7	7419.4	4089.2	3501.7	3283.1	3198.5	3182.1	3106.9	2972.9	2822.5
13868.1	42.5°	10975.1	7459.3	3828.4	3306.6	3097.5	3069.3	3092.8	2963.5	2749.7	2636.8
14831.7	45°	11576.7	7525.1	3588.7	3113.9	2907.1	2907.1	3005.8	2836.6	2660.3	2589.8
15931.5	47.5°	12357.0	7677.9	3365.4	2902.4	2730.9	2777.9	2813.1	2683.9	2585.1	2498.2
17271.1	50°	13485.1	8044.5	3135.1	2688.6	2596.9	2690.9	2641.5	2566.3	2451.2	2380.7
19400.3	52.5°	14885.7	8260.7	2930.6	2495.8	2481.7	2575.7	2505.2	2434.7	2347.8	2253.8
21014.9	55°	15839.9	8300.7	2759.1	2354.8	2404.2	2394.8	2368.9	2305.5	2258.5	2133.9
22608.3	57.5°	16906.8	8380.6	2618.0	2270.2	2354.8	2251.4	2242.0	2188.0	2126.9	2042.3
24551.8	60°	18183.0	8505.1	2495.8	2237.3	2312.5	2157.4	2110.4	2089.3	2028.2	1985.9
26890.2	62.5°	19574.2	8617.9	2371.3	2242.0	2263.2	2065.8	1995.3	1988.2	1950.6	1936.5
29085.2	65°	20523.7	8310.1	2216.2	2237.3	2185.6	1971.8	1882.5	1880.1	1849.6	1844.9
30037.0	67.5°	20192.3	7334.8	2007.0	2171.5	2105.7	1877.8	1779.0	1769.6	1729.7	1732.0
29042.9	70°	18533.1	5943.5	1717.9	2009.4	2007.0	1793.2	1670.9	1640.4	1586.3	1595.7
25252.2	72.5°	15421.6	4404.1	1330.2	1739.1	1849.6	1715.6	1546.4	1497.0	1428.9	1438.3
18641.2	75°	11137.3	2994.1	968.3	1323.1	1609.8	1623.9	1424.2	1339.6	1257.3	1271.4
10375.8	77.5°	5699.1	1696.8	712.1	911.9	1264.4	1475.9	1313.7	1200.9	1182.1	1313.7
2991.7	80°	1859.0	850.7	493.5	639.2	829.6	1208.0	1151.6	1022.3	1017.6	1048.2
627.5	82.5°	554.6	359.6	317.3	420.7	458.3	926.0	994.1	773.2	665.1	700.3
209.2	85°	190.4	173.9	181.0	209.2	218.6	542.9	695.6	512.3	484.1	533.5
47.0	87.5°	44.7	61.1	51.7	47.0	47.0	131.6	270.3	213.9	296.1	197.4
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>
5341.8
4223.2
3837.8
3889.5
4021.1
4133.9
4197.3
4187.9
4084.5
3910.6
3722.6
3551.0
3407.7
3344.2
3254.9
3095.1
2801.4
2639.2
2601.6
2495.8
2373.6
2235.0
2136.3
2014.1
1997.6
1936.5
1842.5
1732.0
1605.1
1435.9
1276.1
1294.9
900.1
723.8
526.4
190.4
0.0

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