

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: P952866

Luminaire Tested: **GALN-SB6C-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952866
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-SB6C-830-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41564 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

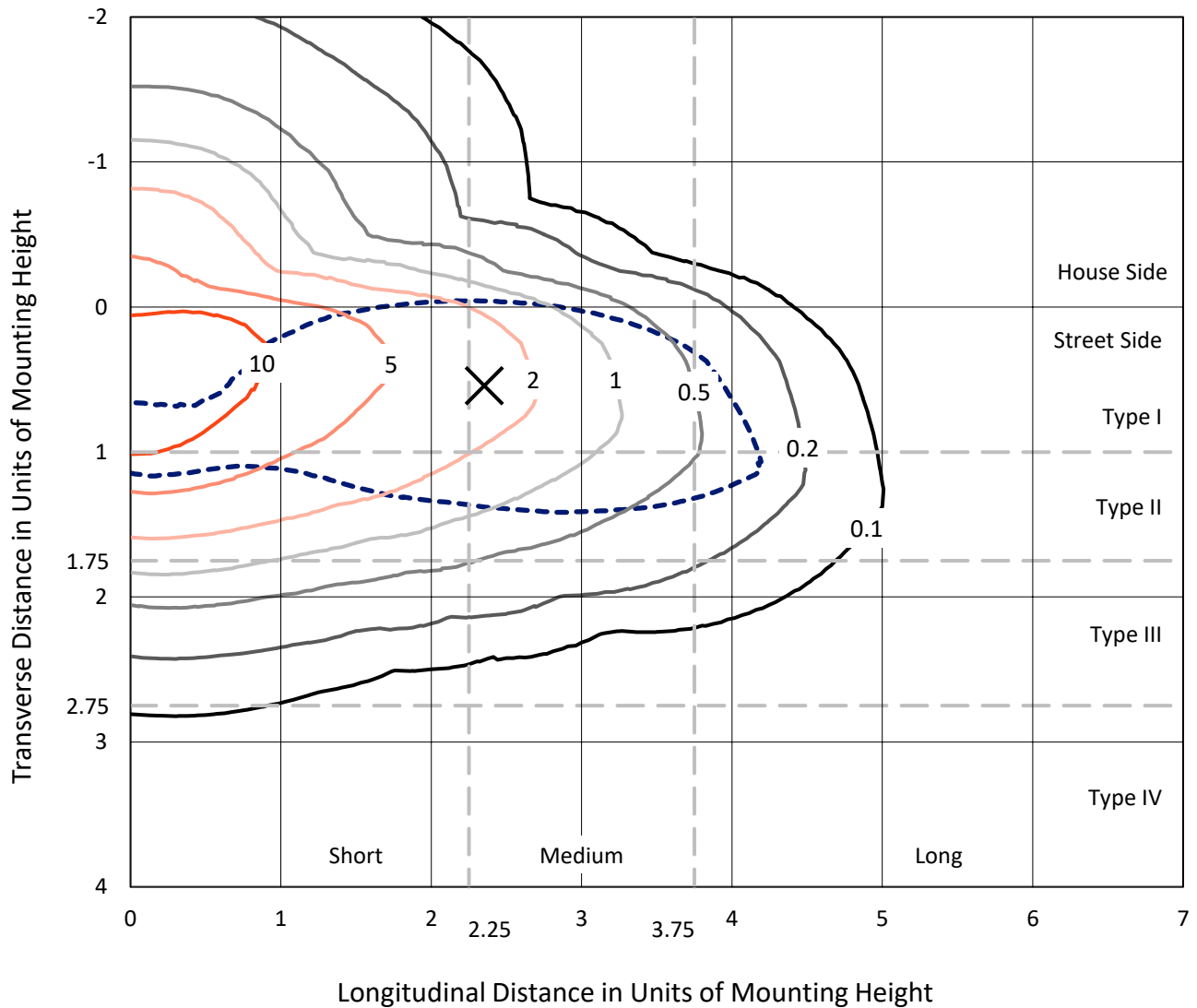
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

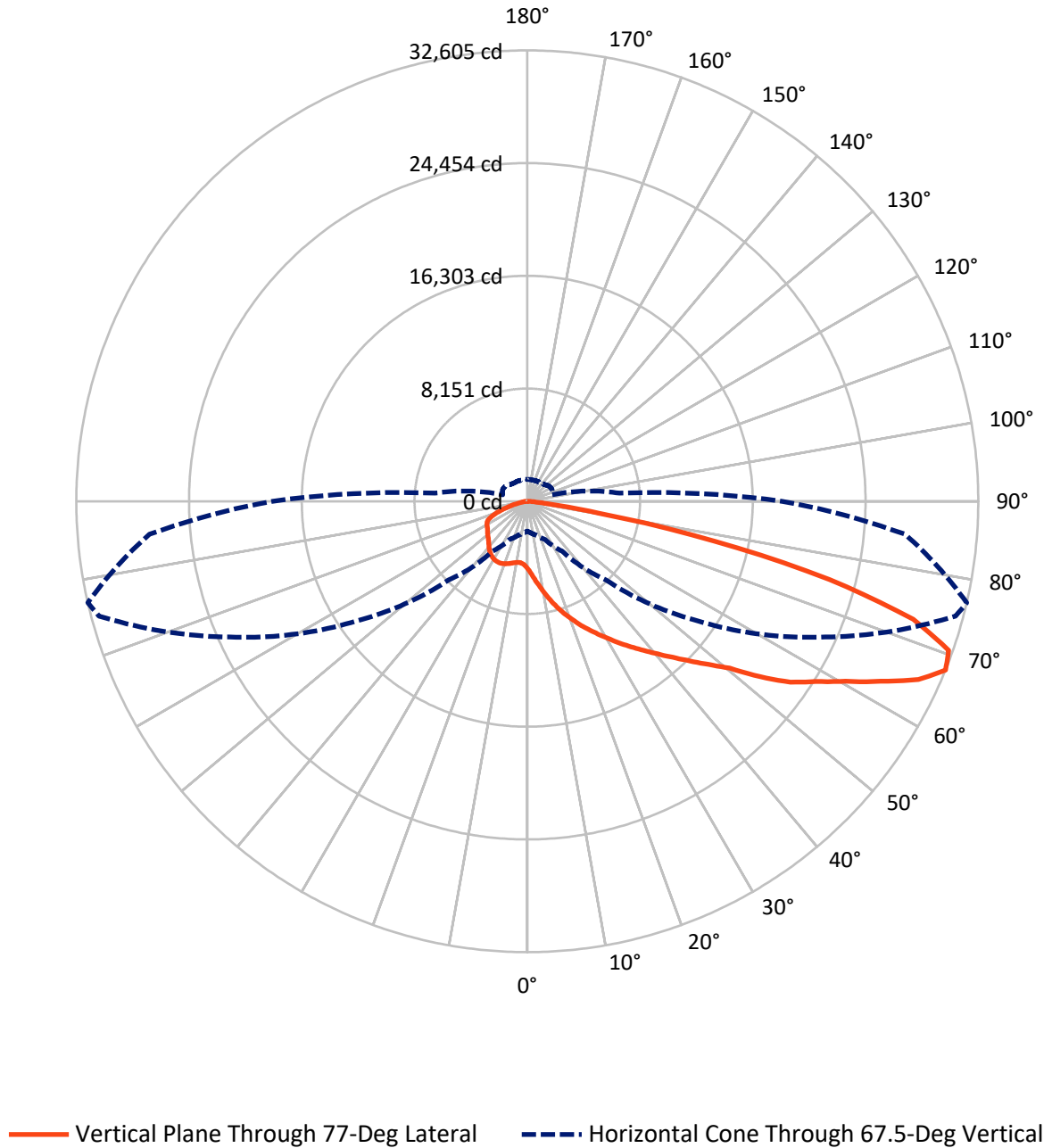
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 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	7862.2	0.0	7862.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	33701.8	0.0	33701.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	41564.0	0.0	41564.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.7	1.3
10°-20°	1877.9	4.5
20°-30°	3545.7	8.5
30°-40°	5712.1	13.7
40°-50°	7813.1	18.8
50°-60°	8813.2	21.2
60°-70°	8226.1	19.8
70°-80°	4509.3	10.8
80°-90°	543.9	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°	41564.0	100.0
0°-180°	41564.0	100.0



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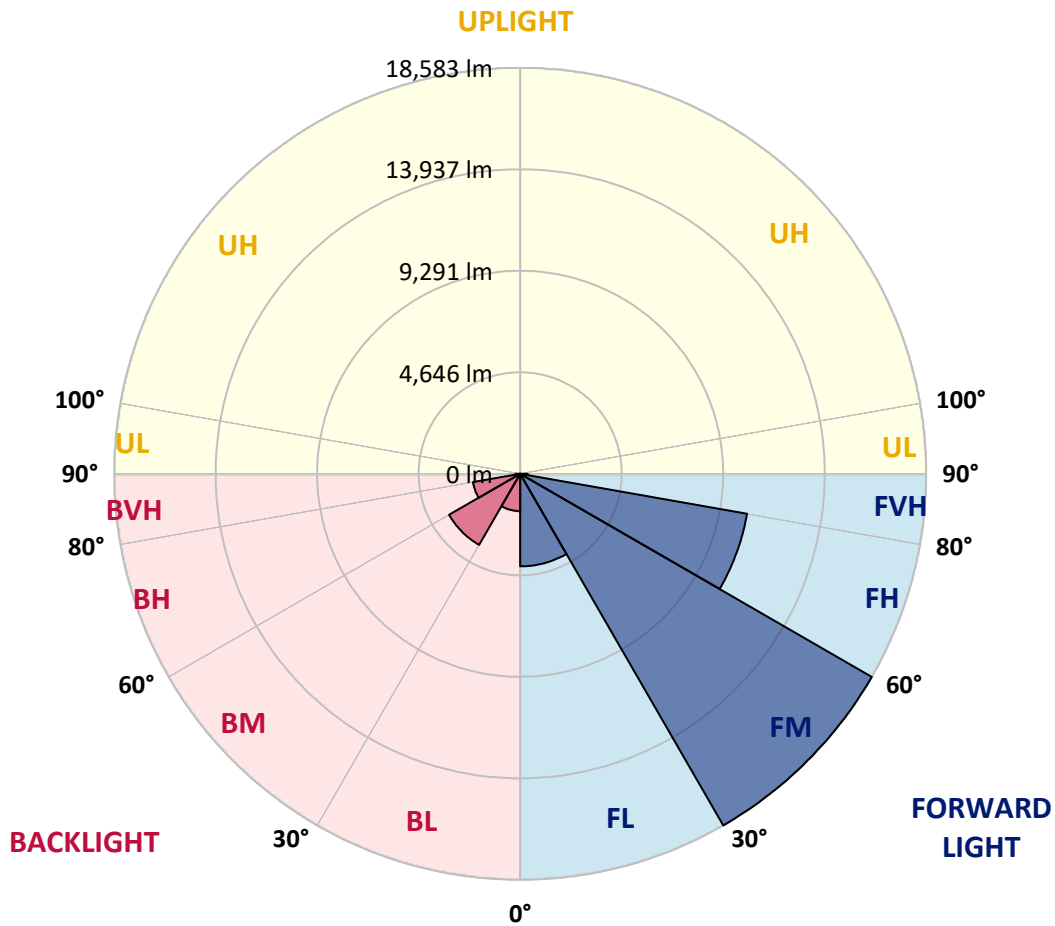
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4236.9	10.2			
FM (30°-60°)	18582.8	44.7			
FH (60°-80°)	10541.9	25.4			G4/12000
FVH (80°-90°)	340.2	0.8			G3/500
BL (0°-30°)	1709.4	4.1	B3/2500		
BM (30°-60°)	3755.6	9.0	B3/5000		
BH (60°-80°)	2193.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	203.8	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°	4876.7	4876.7	4876.7	4876.7	4876.7	4876.7	4876.7	4876.7	4876.7	4876.7
2.5°	6106.1	6149.0	6095.4	6095.4	5915.2	5820.8	5640.6	5503.2	5256.5	5213.6
5°	7217.5	7271.1	7196.0	7163.9	6951.5	6756.2	6453.7	6155.5	5715.6	5670.6
7.5°	8077.9	8146.5	8080.0	8045.7	7856.9	7638.0	7284.0	6867.8	6247.7	6159.8
10°	8779.4	8790.2	8768.7	8781.6	8633.5	8453.3	8090.7	7605.8	6831.3	6711.2
12.5°	9176.4	9225.7	9268.6	9345.8	9320.1	9208.5	8882.4	8303.1	7449.2	7294.7
15°	9363.0	9448.8	9545.4	9723.5	9867.2	9895.1	9646.2	9051.9	8077.9	7891.2
17.5°	9429.5	9511.1	9663.4	9920.8	10229.8	10437.9	10326.3	9779.2	8700.1	8485.5
20°	9766.4	9790.0	9882.2	10126.8	10461.5	10806.9	10890.6	10478.7	9315.8	9073.4
22.5°	10487.3	10440.1	10465.8	10577.4	10817.7	11152.4	11343.3	11096.6	9948.7	9669.8
25°	11678.0	11540.7	11403.4	11274.7	11397.0	11585.8	11802.5	11714.5	10611.7	10257.7
27.5°	13182.0	13014.7	12712.2	12289.5	12141.5	12208.0	12304.5	12287.3	11225.3	10867.0
30°	14662.4	14467.2	14106.7	13495.3	13104.8	12928.9	12855.9	12806.6	11892.6	11510.7
32.5°	15844.6	15690.1	15336.1	14651.7	14085.3	13784.9	13542.5	13366.5	12589.9	12208.0
35°	16878.7	16735.0	16329.5	15582.9	14967.1	14647.4	14329.9	13954.4	13315.0	12928.9
37.5°	17822.8	17679.0	17123.3	16346.7	15726.6	15505.6	15222.4	14585.2	14042.4	13677.6
40°	18419.2	18387.0	17867.8	16988.2	16344.5	16235.1	16140.7	15316.8	14849.1	14510.1
42.5°	18571.6	18642.4	18230.4	17507.4	16893.8	16805.8	17026.8	16145.0	15754.5	15430.5
45°	18204.7	18408.5	18138.2	17646.8	17284.2	17237.0	17812.0	17050.4	16756.4	16460.4
47.5°	17275.7	17621.1	17509.5	17440.9	17389.4	17593.2	18502.9	18011.6	17891.4	17634.0
50°	15400.5	16054.9	16250.1	16683.5	17181.3	17870.0	19131.5	19060.7	19217.3	18957.7
52.5°	12158.6	13059.7	14192.6	15278.2	16541.9	17777.7	19822.4	20566.9	21227.7	21086.1
55°	10036.7	10442.2	11313.3	13304.3	15301.8	17389.4	20133.5	21783.4	23223.0	23096.4
57.5°	8406.1	8768.7	9305.1	10967.9	13426.6	16507.6	20326.6	22525.7	24589.7	24576.8
60°	6657.5	7041.6	7590.8	8768.7	11236.0	14984.3	20283.7	23371.1	26334.0	26441.3
62.5°	4683.7	5106.3	5715.6	6814.1	8998.3	13010.4	19408.3	23982.5	28387.3	28679.1
65°	3078.8	3357.7	3816.9	4765.2	6704.7	10472.2	17736.9	24061.9	30584.3	31077.7
67.5°	2158.4	2265.7	2536.0	3050.9	4419.8	8030.7	15074.4	23240.2	32049.7	32605.3
70°	1684.2	1737.9	1875.2	2081.1	2776.3	5400.3	11551.4	21103.3	31736.4	32315.7
72.5°	1454.7	1506.1	1557.6	1583.4	1862.3	3334.1	7824.7	17644.7	28786.3	29179.0
75°	1319.5	1332.4	1375.3	1366.7	1420.3	2162.7	4516.3	12855.9	22712.4	22577.2
77.5°	1109.2	1126.4	1197.2	1186.5	1261.6	1478.3	2345.0	8296.7	14724.6	13806.4
80°	939.7	948.3	1025.6	1012.7	1096.4	1070.6	1197.2	4228.8	6245.6	5290.8
82.5°	326.1	403.4	783.1	806.7	836.7	647.9	690.9	1725.0	1907.4	1461.1
85°	158.8	169.5	399.1	566.4	564.3	326.1	336.8	615.8	600.7	472.0
87.5°	25.7	32.2	47.2	221.0	175.9	85.8	115.9	120.1	124.4	107.3
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°
4876.7	0°	4876.7	4876.7	4876.7	4876.7	4876.7	4876.7	4876.7	4876.7	4876.7	4876.7
5050.5	2.5°	4930.4	4823.1	4597.8	4389.7	4226.7	4070.0	3982.1	3907.0	3864.1	3855.5
5286.5	5°	5063.4	4842.4	4432.6	4087.2	3861.9	3694.6	3606.6	3550.8	3522.9	3505.8
5604.1	7.5°	5254.4	4930.4	4346.8	3954.2	3718.2	3598.0	3553.0	3544.4	3542.2	3544.4
5988.1	10°	5518.3	5074.1	4338.2	3922.0	3724.6	3658.1	3656.0	3658.1	3666.7	3668.8
6406.5	12.5°	5803.6	5222.2	4372.6	3949.9	3806.1	3769.7	3763.2	3761.1	3767.5	3771.8
6829.2	15°	6114.7	5417.4	4430.5	4010.0	3896.2	3857.6	3851.2	3838.3	3836.2	3834.0
7273.3	17.5°	6434.4	5610.5	4494.8	4074.3	3954.2	3900.5	3876.9	3846.9	3823.3	3816.9
7732.4	20°	6758.4	5801.5	4539.9	4106.5	3958.5	3883.4	3836.2	3784.7	3743.9	3720.3
8195.9	22.5°	7103.8	6001.0	4567.8	4097.9	3919.9	3816.9	3731.0	3671.0	3608.8	3568.0
8663.6	25°	7440.6	6174.8	4565.6	4052.9	3844.8	3713.9	3604.5	3527.2	3441.4	3398.5
9146.3	27.5°	7764.6	6331.4	4512.0	3973.5	3737.5	3591.6	3460.7	3368.5	3284.8	3244.0
9633.3	30°	8099.3	6462.3	4428.3	3857.6	3610.9	3450.0	3306.2	3226.8	3151.8	3113.1
10148.3	32.5°	8431.9	6582.4	4310.3	3713.9	3465.0	3310.5	3168.9	3096.0	3050.9	3050.9
10701.8	35°	8783.7	6666.1	4153.7	3546.5	3310.5	3162.5	3050.9	3008.0	3003.7	2978.0
11287.5	37.5°	9154.9	6719.7	3962.8	3374.9	3158.2	3018.7	2984.4	2932.9	2890.0	2834.2
11931.2	40°	9545.4	6773.4	3733.2	3196.8	2997.3	2920.0	2905.0	2836.4	2714.1	2576.8
12660.7	42.5°	10019.5	6809.9	3495.0	3018.7	2827.8	2802.0	2823.5	2705.5	2510.2	2407.3
13540.3	45°	10568.8	6869.9	3276.2	2842.8	2654.0	2654.0	2744.1	2589.6	2428.7	2364.4
14544.4	47.5°	11281.1	7009.4	3072.4	2649.7	2493.1	2536.0	2568.2	2450.2	2360.1	2280.7
15767.4	50°	12310.9	7344.1	2862.1	2454.5	2370.8	2456.6	2411.6	2342.9	2237.8	2173.4
17711.2	52.5°	13589.7	7541.5	2675.5	2278.5	2265.7	2351.5	2287.1	2222.8	2143.4	2057.5
19185.2	55°	14460.8	7577.9	2518.8	2149.8	2194.9	2186.3	2162.7	2104.7	2061.8	1948.1
20639.8	57.5°	15434.8	7650.9	2390.1	2072.6	2149.8	2055.4	2046.8	1997.5	1941.7	1864.4
22414.2	60°	16599.8	7764.6	2278.5	2042.5	2111.2	1969.6	1926.7	1907.4	1851.6	1813.0
24548.9	62.5°	17870.0	7867.6	2164.8	2046.8	2066.1	1885.9	1821.5	1815.1	1780.8	1767.9
26552.9	65°	18736.8	7586.5	2023.2	2042.5	1995.3	1800.1	1718.6	1716.4	1688.5	1684.2
27421.8	67.5°	18434.2	6696.1	1832.3	1982.5	1922.4	1714.3	1624.2	1615.6	1579.1	1581.2
26514.2	70°	16919.5	5426.0	1568.4	1834.4	1832.3	1637.0	1525.5	1497.6	1448.2	1456.8
23053.5	72.5°	14078.8	4020.7	1214.4	1587.7	1688.5	1566.2	1411.7	1366.7	1304.5	1313.1
17018.2	75°	10167.6	2733.4	884.0	1207.9	1469.7	1482.5	1300.2	1222.9	1147.8	1160.7
9472.4	77.5°	5202.9	1549.1	650.1	832.5	1154.3	1347.4	1199.3	1096.4	1079.2	1199.3
2731.2	80°	1697.1	776.7	450.6	583.6	757.4	1102.8	1051.3	933.3	929.0	956.9
572.9	82.5°	506.3	328.3	289.6	384.0	418.4	845.3	907.6	705.9	607.2	639.4
191.0	85°	173.8	158.8	165.2	191.0	199.5	495.6	635.1	467.7	442.0	487.0
42.9	87.5°	40.8	55.8	47.2	42.9	42.9	120.1	246.7	195.2	270.3	180.2
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>
4876.7
3855.5
3503.6
3550.8
3671.0
3774.0
3831.9
3823.3
3728.9
3570.1
3398.5
3241.9
3111.0
3053.1
2971.5
2825.6
2557.5
2409.4
2375.1
2278.5
2167.0
2040.4
1950.3
1838.7
1823.7
1767.9
1682.1
1581.2
1465.4
1310.9
1165.0
1182.2
821.7
660.8
480.6
173.8
0.0

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