

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: P951776

Luminaire Tested: **GALN-SB5D-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
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-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45298 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

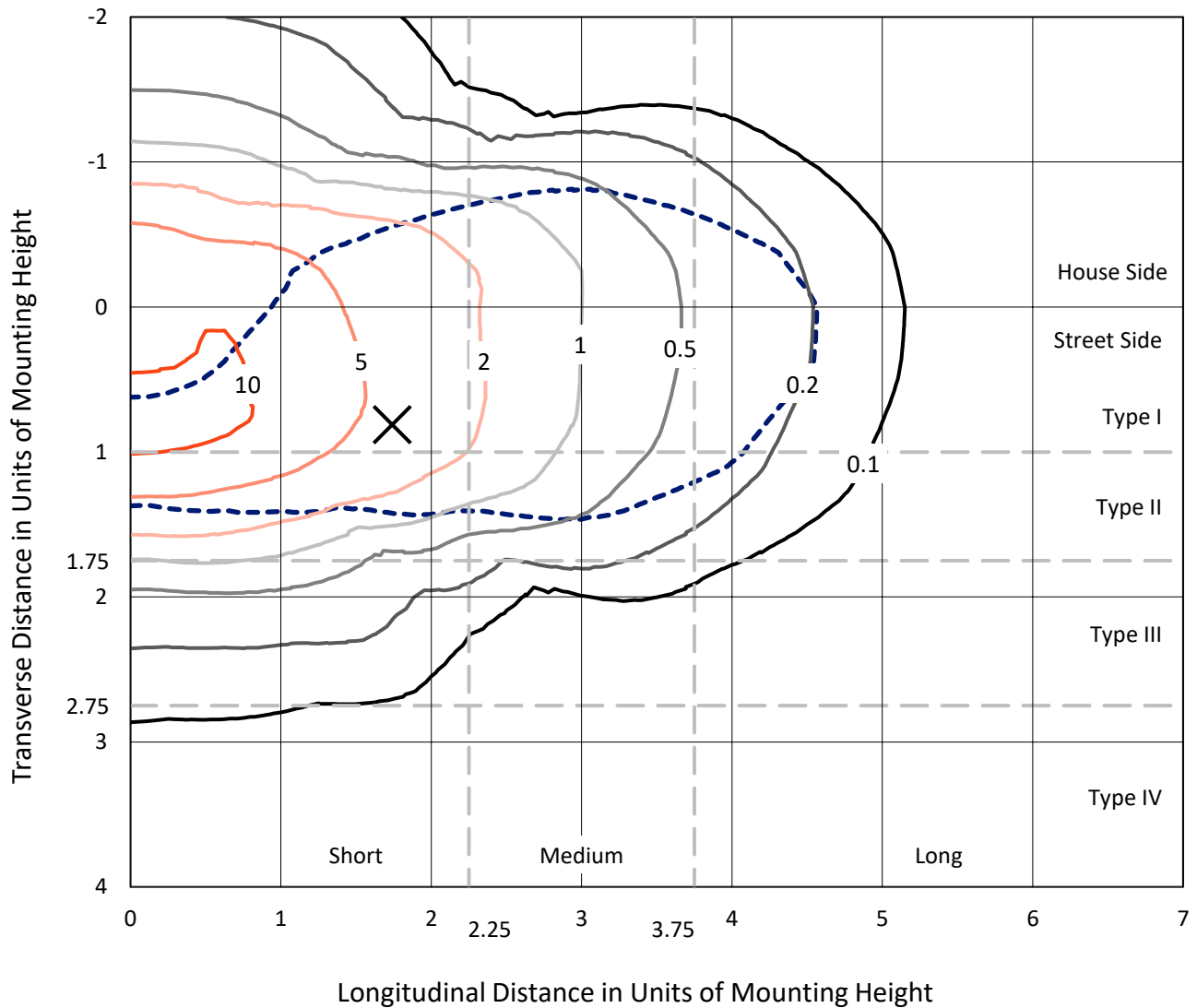
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

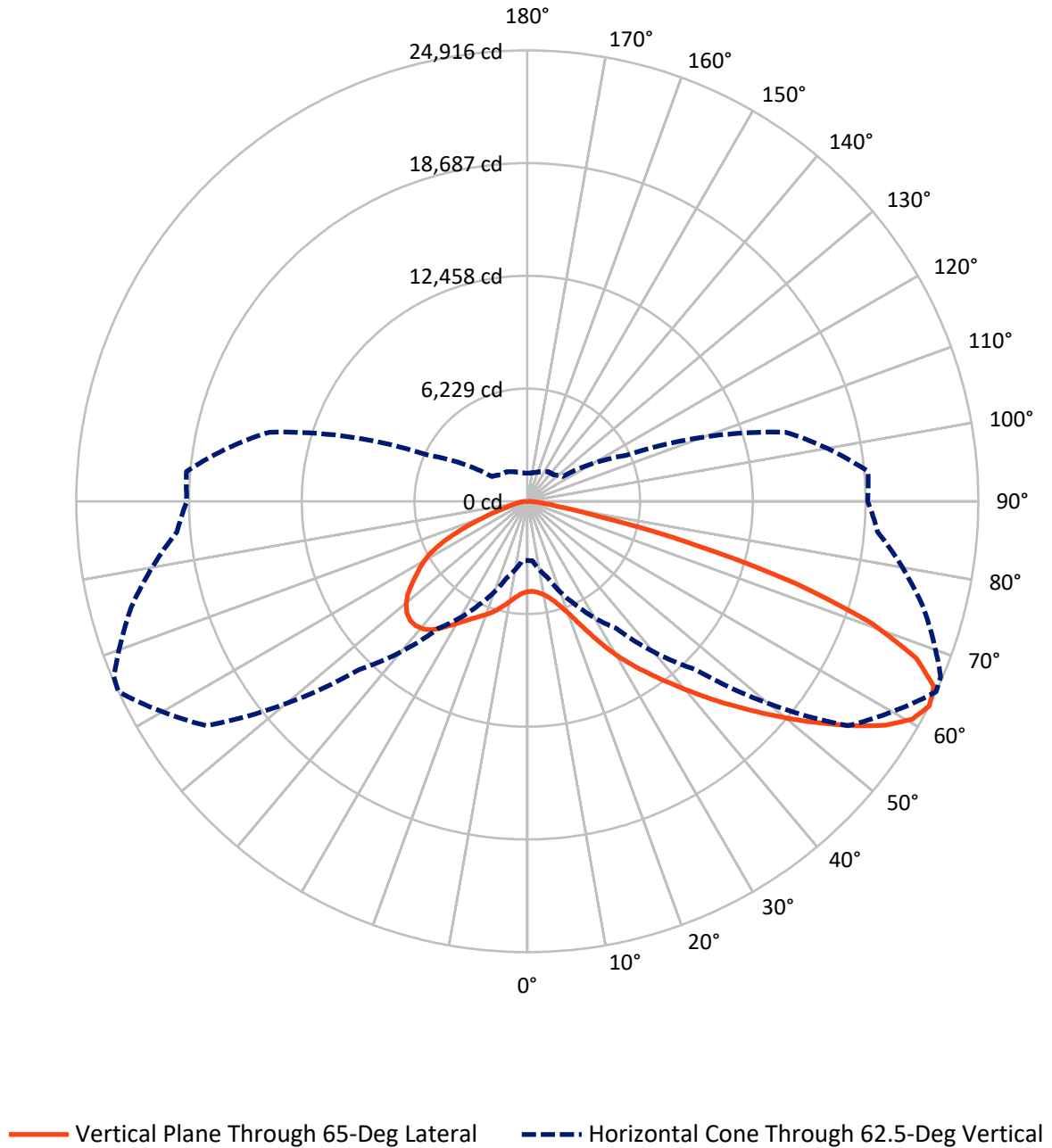
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14294.1	0.0	14294.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	31003.9	0.0	31003.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	45298.0	0.0	45298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.7	1.1
10°-20°	1687.6	3.7
20°-30°	3421.8	7.6
30°-40°	5921.4	13.1
40°-50°	8960.9	19.8
50°-60°	10506.1	23.2
60°-70°	8808.1	19.4
70°-80°	4862.8	10.7
80°-90°	631.7	1.4
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°	45298.0	100.0
0°-180°	45298.0	100.0

Coefficient of Utilization



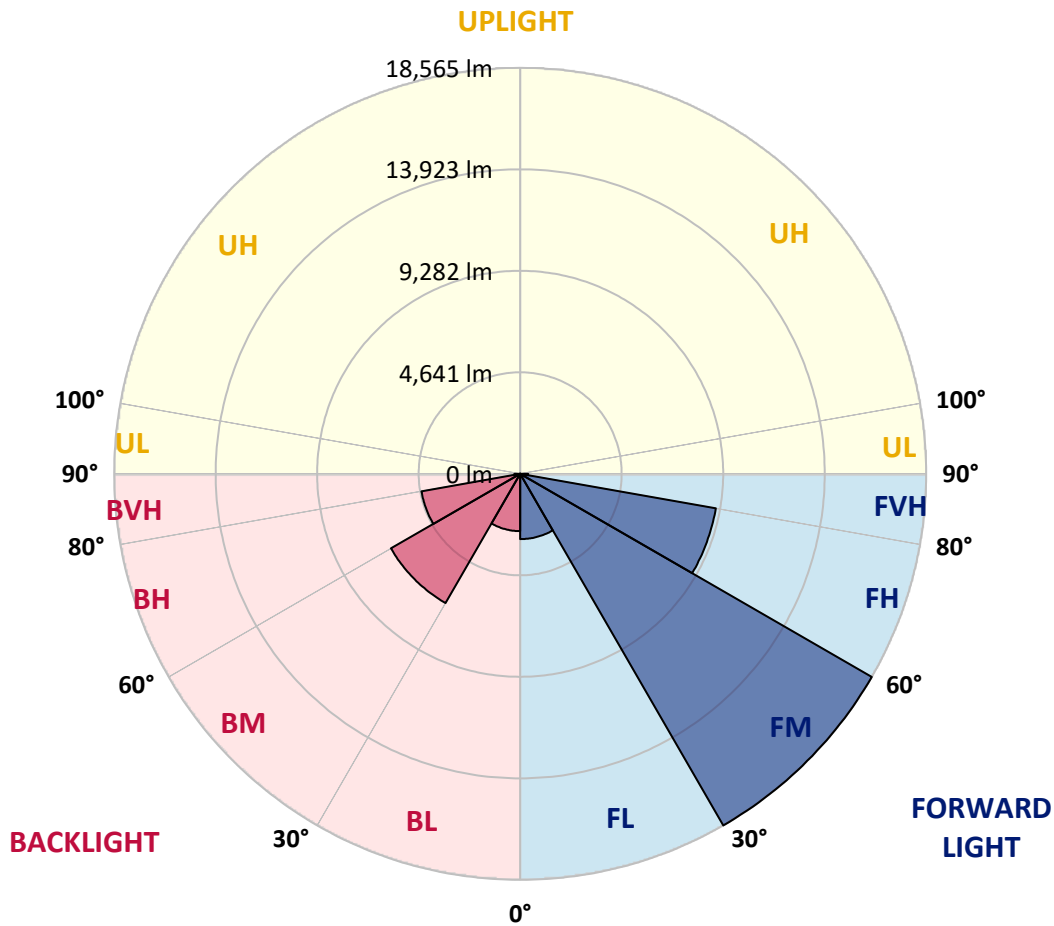
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2985.7	6.6			
FM (30°-60°)	18564.6	41.0			
FH (60°-80°)	9085.5	20.1			G4/12000
FVH (80°-90°)	368.1	0.8			G3/500
BL (0°-30°)	2621.4	5.8	B4/5000		
BM (30°-60°)	6823.8	15.1	B4/8500		
BH (60°-80°)	4585.4	10.1	B4/5000		G4/5000
BVH (80°-90°)	263.5	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	4991.6	4991.6	4991.6	4991.6	4991.6	4991.6	4991.6	4991.6	4991.6	4991.6
2.5°	4958.7	4944.6	4956.4	4956.4	4961.1	4958.7	4975.2	4979.9	4986.9	5001.0
5°	4909.4	4907.0	4928.2	4947.0	4965.8	4982.2	5003.4	5033.9	5038.6	5055.1
7.5°	4892.9	4878.8	4911.7	4935.2	4979.9	5019.8	5076.2	5127.9	5149.1	5156.2
10°	5019.8	4996.3	5026.9	5041.0	5078.6	5118.5	5184.4	5266.6	5290.1	5318.3
12.5°	5236.1	5210.2	5254.9	5276.0	5311.3	5346.5	5391.2	5471.1	5482.8	5534.5
15°	5532.2	5501.6	5529.8	5555.7	5614.4	5647.3	5692.0	5769.5	5769.5	5809.5
17.5°	5934.0	5894.1	5915.2	5924.6	5962.2	6011.6	6086.8	6154.9	6190.2	6176.1
20°	6533.3	6484.0	6484.0	6437.0	6422.9	6462.8	6561.5	6655.5	6693.1	6620.3
22.5°	7433.4	7362.9	7323.0	7163.1	7099.7	7104.4	7203.1	7318.3	7348.8	7219.6
25°	8577.9	8467.5	8413.4	8178.4	8035.0	7910.5	7988.0	8136.1	8178.4	8018.6
27.5°	9722.4	9729.5	9677.8	9395.8	9158.4	8930.4	8890.5	9045.6	9090.2	8909.3
30°	11327.6	11160.7	11062.0	10723.6	10385.2	10065.5	9901.0	9964.5	9976.2	9760.0
32.5°	12711.8	12669.5	12458.0	12161.8	11727.1	11226.5	10951.5	10850.5	10831.7	10523.8
35°	14288.7	14265.2	14041.9	13689.4	13219.4	12523.8	12027.9	11738.8	11715.3	11282.9
37.5°	15891.5	15891.5	15672.9	15287.5	14801.0	13931.5	13177.1	12718.8	12643.6	12079.6
40°	17169.9	17092.4	17132.3	16970.2	16413.2	15489.6	14453.2	13788.1	13687.1	13010.2
42.5°	17896.1	17870.3	18110.0	18290.9	18063.0	17325.0	15858.6	14946.7	14805.7	14034.9
45°	18058.3	18030.1	18457.8	19120.5	19440.1	19137.0	17386.1	16166.4	15994.9	15106.5
47.5°	17684.6	17628.2	18255.7	19301.5	20326.1	20859.6	19040.6	17489.6	17240.4	16150.0
50°	16561.3	16507.2	17456.7	18845.6	20624.6	22030.0	20836.1	18892.6	18511.9	17268.6
52.5°	14119.5	14145.3	15633.0	17541.3	20232.1	22758.5	22382.5	20370.8	19912.5	18413.1
55°	10998.5	11054.9	12883.3	14984.3	18662.3	22648.1	23437.7	21893.7	21437.7	19489.5
57.5°	7875.2	8124.3	9837.6	11917.4	15647.1	20897.2	23668.0	23341.3	22899.5	20664.6
60°	5104.4	5149.1	6911.7	9008.0	11915.1	17785.7	23200.3	24438.8	24093.4	21863.1
62.5°	3271.4	3301.9	4375.9	6300.7	8575.6	13158.3	21625.8	24915.9	24810.2	22655.1
65°	2404.2	2380.7	2940.0	4164.4	5776.6	8114.9	18568.3	24685.6	24894.8	23151.0
67.5°	2007.0	1974.1	2249.1	2883.6	4256.1	4608.6	13738.8	23188.6	23954.7	23094.6
70°	1828.4	1800.2	1967.0	2141.0	3320.7	3085.7	6925.8	20159.3	21339.0	22453.0
72.5°	1548.7	1499.4	1727.3	1901.2	2582.8	2366.6	2862.4	15484.9	16923.2	20396.6
75°	1200.9	1168.0	1363.1	1673.3	1941.2	1847.2	1809.6	9402.8	10972.7	15774.0
77.5°	951.8	907.1	1085.8	1304.3	1746.1	1393.6	1318.4	4049.2	5605.0	10070.2
80°	716.8	676.8	824.9	1031.7	1341.9	1050.5	853.1	1652.1	2112.8	5102.1
82.5°	510.0	474.7	575.8	756.7	902.4	942.4	524.1	925.9	1041.1	1967.0
85°	326.7	305.5	385.4	474.7	573.4	606.3	319.6	484.1	531.1	810.8
87.5°	178.6	145.7	206.8	220.9	265.6	242.1	152.8	176.3	190.4	293.8
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°
4991.6	0°	4991.6	4991.6	4991.6	4991.6	4991.6	4991.6	4991.6	4991.6	4991.6	4991.6
5001.0	2.5°	5010.4	5017.5	5041.0	5048.0	5064.5	5085.6	5099.7	5113.8	5113.8	5127.9
5076.2	5°	5078.6	5095.0	5144.4	5170.3	5212.6	5254.9	5280.7	5311.3	5330.1	5339.5
5196.1	7.5°	5210.2	5236.1	5306.6	5351.2	5424.1	5482.8	5522.8	5565.1	5574.5	5600.3
5363.0	10°	5388.8	5419.4	5499.3	5583.9	5670.8	5743.7	5781.3	5811.8	5823.6	5828.3
5576.8	12.5°	5593.3	5637.9	5741.3	5844.7	5936.4	5999.8	6009.2	6002.2	5969.3	5941.1
5840.0	15°	5844.7	5884.7	5999.8	6112.6	6202.0	6213.7	6154.9	6117.3	6077.4	6070.3
6133.8	17.5°	6145.5	6166.7	6272.5	6382.9	6390.0	6350.0	6263.1	6227.8	6190.2	6164.4
6516.9	20°	6495.7	6488.7	6563.9	6610.9	6561.5	6439.3	6307.7	6249.0	6211.4	6180.8
6986.9	22.5°	6914.0	6860.0	6850.6	6838.8	6707.2	6451.1	6272.5	6197.3	6138.5	6096.2
7642.6	25°	7522.7	7315.9	7172.5	7092.6	6796.5	6387.6	6159.7	5992.8	5882.3	5809.5
8444.0	27.5°	8284.2	7936.3	7574.4	7379.4	6796.5	6258.4	5887.0	5616.8	5435.8	5360.6
9219.5	30°	9010.3	8646.1	8112.6	7724.8	6780.1	6046.8	5447.6	5071.5	4860.0	4784.8
9882.2	32.5°	9630.8	9233.6	8683.7	8103.2	6740.1	5703.7	4902.3	4486.4	4281.9	4192.6
10537.9	35°	10206.5	9783.5	9257.1	8519.2	6634.4	5200.8	4303.1	3985.8	3757.8	3614.5
11205.3	37.5°	10796.4	10293.5	9800.0	8895.2	6444.0	4613.3	3842.4	3572.2	3304.3	3111.6
11915.1	40°	11438.0	10836.4	10380.5	9118.4	6131.4	4053.9	3485.2	3238.5	2954.1	2749.6
12732.9	42.5°	12187.7	11487.4	11026.7	9233.6	5703.7	3656.8	3252.6	3010.5	2742.6	2575.7
13609.5	45°	12970.3	12204.1	11616.6	9231.2	5226.7	3471.1	3177.4	2937.6	2641.5	2467.6
14509.6	47.5°	13790.5	12953.8	12126.6	9080.8	4813.0	3497.0	3135.1	2780.2	2453.5	2284.3
15419.1	50°	14613.0	13774.0	12620.1	8798.8	4636.8	3440.6	2977.6	2559.3	2173.9	2021.1
16272.2	52.5°	15428.5	14645.9	13045.5	8397.0	4458.2	3231.4	2775.5	2272.6	2058.7	1952.9
17153.5	55°	16248.7	15508.4	13508.5	7811.8	4011.6	2987.0	2437.1	2164.5	1967.0	1870.7
18016.0	57.5°	17071.2	16504.9	13947.9	7226.6	3450.0	2686.2	2251.4	2032.8	1875.4	1793.1
18737.5	60°	17926.7	17644.7	14401.5	6688.4	2895.3	2300.8	2115.1	1927.1	1767.3	1675.6
19430.7	62.5°	18808.0	18899.6	14756.4	5995.1	2385.4	2065.8	1992.9	1800.2	1645.1	1558.1
20004.2	65°	19696.3	20109.9	14989.0	5033.9	1934.1	1842.5	1861.3	1661.5	1504.1	1428.9
20424.8	67.5°	20366.1	20981.8	14923.2	3809.5	1586.3	1631.0	1696.8	1515.8	1367.8	1309.0
20356.7	70°	20441.3	20878.4	14274.6	2608.6	1327.8	1424.2	1513.5	1372.5	1219.7	1177.4
19397.8	72.5°	19440.1	19468.3	12467.4	1703.8	1123.4	1250.3	1320.8	1226.8	1078.7	1036.4
16970.2	75°	16815.1	16100.6	9153.7	1123.4	940.0	1074.0	1139.8	1074.0	930.6	940.0
12697.7	77.5°	12740.0	11402.8	5558.0	799.0	784.9	902.4	991.7	944.7	822.5	923.6
6385.3	80°	6563.9	6169.1	2479.4	596.9	620.4	721.5	815.5	754.4	651.0	620.4
1426.5	82.5°	1504.1	1748.5	977.6	427.7	448.9	519.4	622.8	566.4	467.7	394.8
594.6	85°	526.4	575.8	432.4	267.9	263.2	324.3	423.0	378.4	317.3	253.8
251.5	87.5°	166.9	218.6	162.2	108.1	112.8	145.7	195.1	178.6	148.1	96.4
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>
4991.6
5127.9
5344.2
5590.9
5816.5
5941.1
6070.3
6166.7
6183.2
6110.3
5837.7
5398.2
4829.5
4237.3
3661.5
3163.3
2789.6
2608.6
2495.8
2307.8
2030.5
1952.9
1861.3
1779.0
1668.6
1555.8
1426.5
1311.4
1179.8
1034.1
907.1
813.1
566.4
390.1
267.9
101.1
0.0

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