

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: P953202

Luminaire Tested: **GALN-SB6D-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953202
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-SB6D-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 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: 54655 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

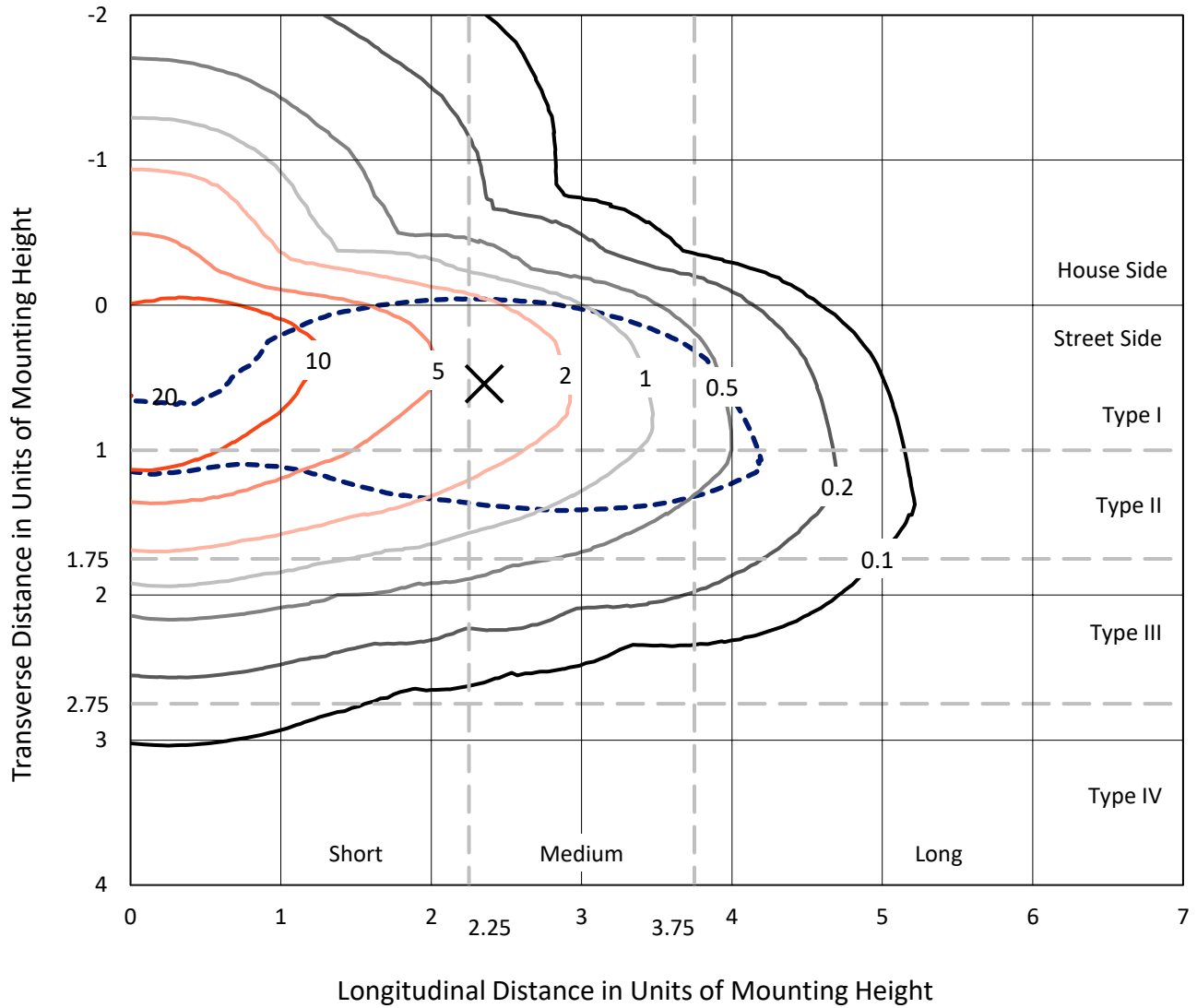
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P953202
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Iso-Footcandle Lines of Horizontal Illumination

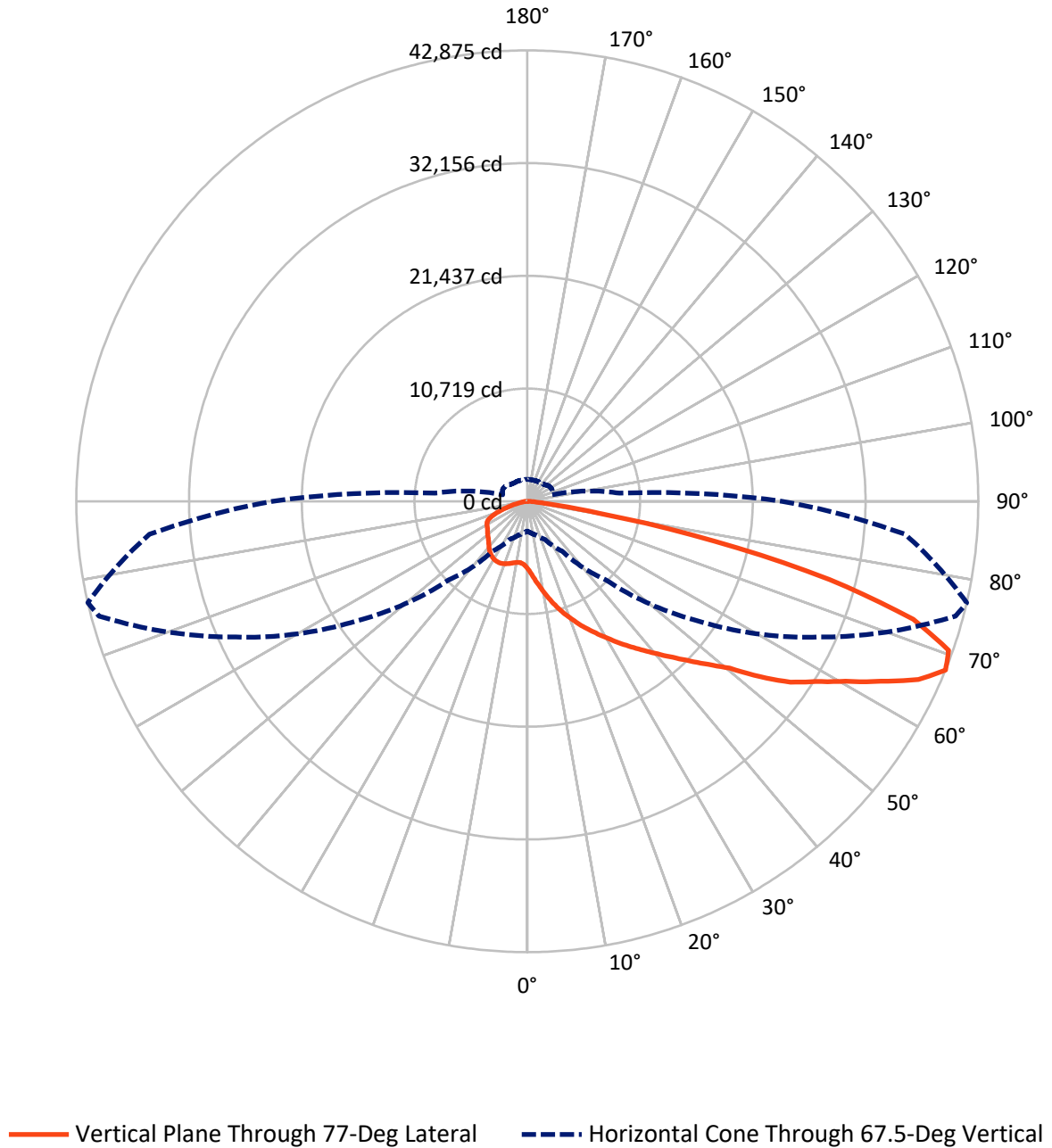
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20 fc
 Type II - Medium - N/A

REPORT NUMBER: P953202
CATALOG NUMBER: GALN-SB6D-827-U-T2R

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10338.5	0.0	10338.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	44316.5	0.0	44316.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	54655.0	0.0	54655.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.4	1.3
10°-20°	2469.4	4.5
20°-30°	4662.5	8.5
30°-40°	7511.2	13.7
40°-50°	10273.9	18.8
50°-60°	11589.0	21.2
60°-70°	10816.9	19.8
70°-80°	5929.5	10.8
80°-90°	715.2	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°	54655.0	100.0
0°-180°	54655.0	100.0



REPORT NUMBER: P953202

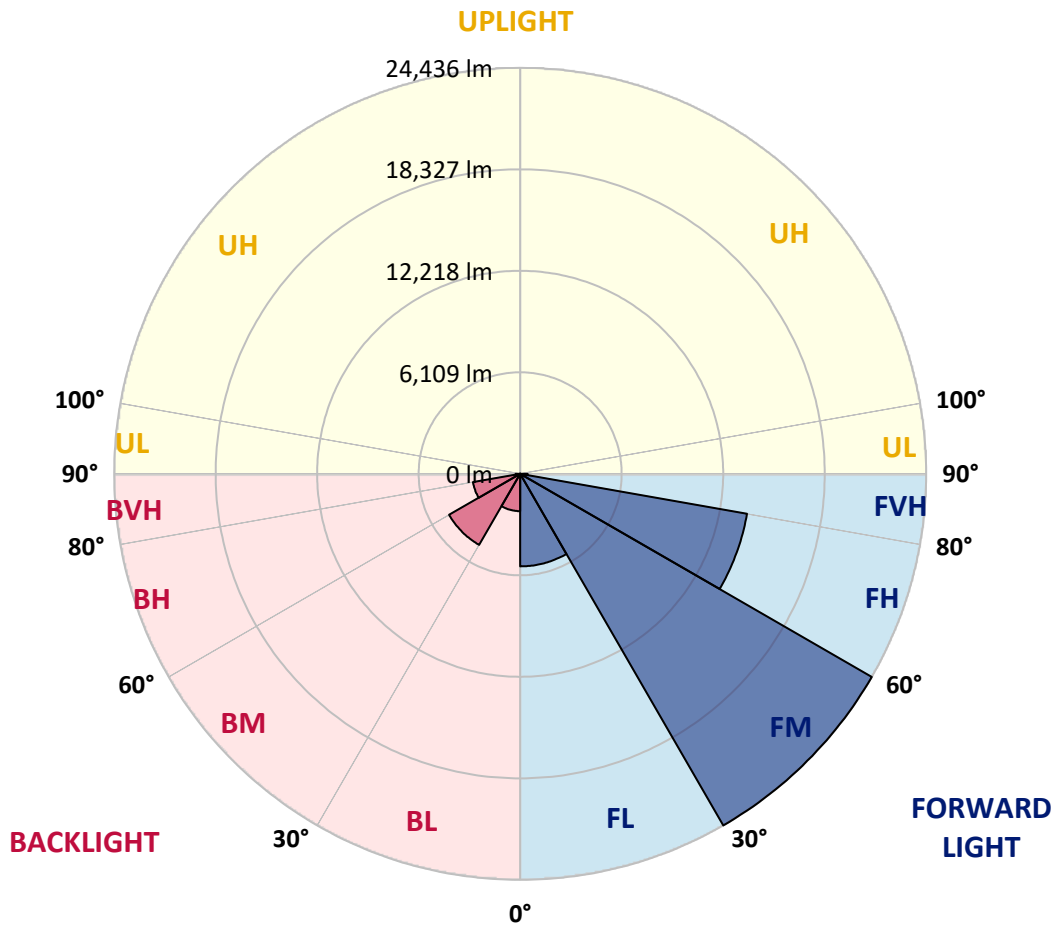
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5571.4	10.2			
FM (30°-60°)	24435.7	44.7			
FH (60°-80°)	13862.1	25.4			G5
FVH (80°-90°)	447.3	0.8			G3/500
BL (0°-30°)	2247.8	4.1	B3/2500		
BM (30°-60°)	4938.5	9.0	B3/5000		
BH (60°-80°)	2884.3	5.3	B4/5000		G4/5000
BVH (80°-90°)	267.9	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



REPORT NUMBER: P953202
 CATALOG NUMBER: GALN-SB6D-827-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6412.7	6412.7	6412.7	6412.7	6412.7	6412.7	6412.7	6412.7	6412.7	6412.7
2.5°	8029.3	8085.7	8015.2	8015.2	7778.2	7654.1	7417.1	7236.5	6912.1	6855.7
5°	9490.7	9561.3	9462.5	9420.2	9140.9	8884.2	8486.4	8094.2	7515.8	7456.6
7.5°	10622.1	10712.3	10624.9	10579.7	10331.5	10043.7	9578.2	9030.9	8215.5	8099.8
10°	11544.6	11558.7	11530.5	11547.4	11352.8	11115.8	10639.0	10001.4	8982.9	8824.9
12.5°	12066.5	12131.4	12187.9	12289.4	12255.6	12108.9	11680.0	10918.3	9795.4	9592.3
15°	12312.0	12424.8	12551.8	12786.0	12975.0	13011.7	12684.4	11902.9	10622.1	10376.6
17.5°	12399.4	12506.7	12707.0	13045.5	13451.8	13725.4	13578.7	12859.3	11440.2	11158.1
20°	12842.4	12873.4	12994.7	13316.4	13756.5	14210.7	14320.7	13779.0	12249.9	11931.1
22.5°	13790.3	13728.3	13762.1	13908.8	14224.8	14664.9	14916.0	14591.6	13082.2	12715.4
25°	15356.1	15175.6	14995.0	14825.7	14986.5	15234.8	15519.8	15404.1	13954.0	13488.5
27.5°	17333.8	17113.8	16716.0	16160.2	15965.5	16053.0	16179.9	16157.4	14760.8	14289.7
30°	19280.5	19023.8	18549.8	17745.7	17232.3	17000.9	16905.0	16840.1	15638.3	15136.1
32.5°	20835.0	20631.9	20166.4	19266.4	18521.6	18126.6	17807.8	17576.5	16555.2	16053.0
35°	22194.9	22005.8	21472.6	20490.8	19681.1	19260.8	18843.2	18349.5	17508.8	17000.9
37.5°	23436.2	23247.2	22516.5	21495.2	20679.9	20389.3	20016.9	19178.9	18465.2	17985.5
40°	24220.5	24178.2	23495.5	22338.8	21492.4	21348.5	21224.4	20141.0	19526.0	19080.2
42.5°	24420.8	24513.9	23972.3	23021.5	22214.6	22098.9	22389.5	21230.0	20716.5	20290.5
45°	23938.4	24206.4	23851.0	23204.9	22728.1	22666.0	23422.1	22420.6	22034.1	21644.7
47.5°	22716.8	23171.0	23024.3	22934.0	22866.3	23134.4	24330.6	23684.5	23526.5	23188.0
50°	20251.0	21111.5	21368.2	21938.1	22592.7	23498.3	25157.2	25064.1	25270.0	24928.7
52.5°	15988.1	17173.0	18662.7	20090.2	21751.9	23377.0	26065.6	27044.6	27913.6	27727.4
55°	13197.9	13731.1	14876.5	17494.6	20121.2	22866.3	26474.7	28644.3	30537.3	30370.9
57.5°	11053.7	11530.5	12235.8	14422.3	17655.5	21706.8	26728.6	29620.4	32334.5	32317.6
60°	8754.4	9259.4	9981.6	11530.5	14775.0	19703.7	26672.2	30732.0	34628.2	34769.2
62.5°	6158.8	6714.6	7515.8	8960.3	11832.4	17108.1	25521.1	31536.1	37328.1	37711.8
65°	4048.5	4415.3	5019.0	6266.0	8816.4	13770.6	23323.4	31640.5	40217.1	40866.0
67.5°	2838.2	2979.3	3334.7	4011.8	5811.8	10560.0	19822.2	30559.9	42144.0	42874.7
70°	2214.7	2285.2	2465.8	2736.6	3650.7	7101.1	15189.7	27749.9	41732.1	42493.9
72.5°	1912.8	1980.5	2048.2	2082.1	2448.9	4384.2	10289.1	23202.1	37852.9	38369.2
75°	1735.1	1752.0	1808.4	1797.1	1867.7	2843.8	5938.8	16905.0	29865.9	29688.1
77.5°	1458.6	1481.2	1574.3	1560.2	1658.9	1943.8	3083.6	10909.8	19362.3	18154.8
80°	1235.7	1247.0	1348.6	1331.6	1441.7	1407.8	1574.3	5560.7	8212.7	6957.2
82.5°	428.8	530.4	1029.8	1060.8	1100.3	852.0	908.4	2268.3	2508.1	1921.3
85°	208.8	222.9	524.8	744.8	742.0	428.8	442.9	809.7	790.0	620.7
87.5°	33.9	42.3	62.1	290.6	231.3	112.9	152.3	158.0	163.6	141.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953202
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6412.7	0°	6412.7	6412.7	6412.7	6412.7	6412.7	6412.7	6412.7	6412.7	6412.7	6412.7
6641.3	2.5°	6483.3	6342.2	6046.0	5772.3	5557.9	5351.9	5236.3	5137.5	5081.1	5069.8
6951.6	5°	6658.2	6367.6	5828.7	5374.5	5078.3	4858.2	4742.5	4669.2	4632.5	4609.9
7369.1	7.5°	6909.3	6483.3	5715.9	5199.6	4889.2	4731.3	4672.0	4660.7	4657.9	4660.7
7874.1	10°	7256.3	6672.3	5704.6	5157.3	4897.7	4810.3	4807.4	4810.3	4821.5	4824.4
8424.3	12.5°	7631.5	6867.0	5749.7	5193.9	5004.9	4957.0	4948.5	4945.7	4954.1	4959.8
8980.1	15°	8040.6	7123.7	5825.9	5272.9	5123.4	5072.6	5064.2	5047.2	5044.4	5041.6
9564.1	17.5°	8461.0	7377.6	5910.5	5357.6	5199.6	5129.1	5098.0	5058.5	5027.5	5019.0
10167.8	20°	8887.0	7628.7	5969.8	5399.9	5205.2	5106.5	5044.4	4976.7	4923.1	4892.1
10777.2	22.5°	9341.2	7891.1	6006.5	5388.6	5154.4	5019.0	4906.2	4827.2	4745.4	4691.8
11392.3	25°	9784.1	8119.6	6003.6	5329.4	5055.7	4883.6	4739.7	4638.2	4525.3	4468.9
12027.0	27.5°	10210.1	8325.5	5933.1	5225.0	4914.6	4722.8	4550.7	4429.4	4319.4	4265.7
12667.5	30°	10650.3	8497.6	5823.1	5072.6	4748.2	4536.6	4347.6	4243.2	4144.4	4093.7
13344.6	32.5°	11087.6	8655.6	5667.9	4883.6	4556.3	4353.2	4167.0	4071.1	4011.8	4011.8
14072.5	35°	11550.2	8765.7	5462.0	4663.5	4353.2	4158.5	4011.8	3955.4	3949.8	3915.9
14842.7	37.5°	12038.3	8836.2	5210.9	4437.8	4152.9	3969.5	3924.4	3856.7	3800.2	3726.9
15689.0	40°	12551.8	8906.7	4909.0	4203.7	3941.3	3839.7	3820.0	3729.7	3568.9	3388.3
16648.3	42.5°	13175.3	8954.7	4595.8	3969.5	3718.4	3684.6	3712.8	3557.6	3300.9	3165.5
17805.0	45°	13897.5	9033.7	4308.1	3738.2	3489.9	3489.9	3608.4	3405.3	3193.7	3109.0
19125.3	47.5°	14834.2	9217.1	4040.0	3484.3	3278.3	3334.7	3377.1	3221.9	3103.4	2999.0
20733.5	50°	16188.4	9657.2	3763.6	3227.5	3117.5	3230.3	3171.1	3080.8	2942.6	2857.9
23289.5	52.5°	17869.9	9916.7	3518.1	2996.2	2979.3	3092.1	3007.5	2922.8	2818.4	2705.6
25227.7	55°	19015.3	9964.7	3312.2	2826.9	2886.2	2874.9	2843.8	2767.7	2711.2	2561.7
27140.5	57.5°	20296.2	10060.6	3142.9	2725.3	2826.9	2702.8	2691.5	2626.6	2553.2	2451.7
29473.7	60°	21828.1	10210.1	2996.2	2685.8	2776.1	2589.9	2533.5	2508.1	2434.7	2384.0
32280.9	62.5°	23498.3	10345.6	2846.7	2691.5	2716.9	2479.9	2395.3	2386.8	2341.6	2324.7
34915.9	65°	24638.1	9976.0	2660.5	2685.8	2623.8	2367.0	2259.8	2257.0	2220.3	2214.7
36058.6	67.5°	24240.3	8805.2	2409.4	2606.8	2527.9	2254.2	2135.7	2124.4	2076.4	2079.3
34865.2	70°	22248.5	7135.0	2062.3	2412.2	2409.4	2152.6	2005.9	1969.2	1904.4	1915.6
30314.5	72.5°	18513.1	5287.0	1596.8	2087.7	2220.3	2059.5	1856.4	1797.1	1715.3	1726.6
22378.3	75°	13370.0	3594.3	1162.4	1588.4	1932.6	1949.5	1709.7	1608.1	1509.4	1526.3
12455.9	77.5°	6841.6	2037.0	854.8	1094.6	1517.8	1771.8	1577.1	1441.7	1419.1	1577.1
3591.5	80°	2231.6	1021.3	592.5	767.4	995.9	1450.1	1382.4	1227.2	1221.6	1258.3
753.3	82.5°	665.8	431.7	380.9	505.0	550.1	1111.6	1193.4	928.2	798.4	840.7
251.1	85°	228.5	208.8	217.2	251.1	262.4	651.7	835.1	615.0	581.2	640.4
56.4	87.5°	53.6	73.4	62.1	56.4	56.4	158.0	324.4	256.7	355.5	237.0
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>
6412.7
5069.8
4607.1
4669.2
4827.2
4962.6
5038.8
5027.5
4903.4
4694.6
4468.9
4262.9
4090.8
4014.7
3907.4
3715.6
3362.9
3168.3
3123.1
2996.2
2849.5
2683.0
2564.5
2417.8
2398.1
2324.7
2211.9
2079.3
1926.9
1723.8
1531.9
1554.5
1080.5
868.9
632.0
228.5
0.0

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