

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: P955348

Luminaire Tested: **GALN-SB8B-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-827-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40647 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

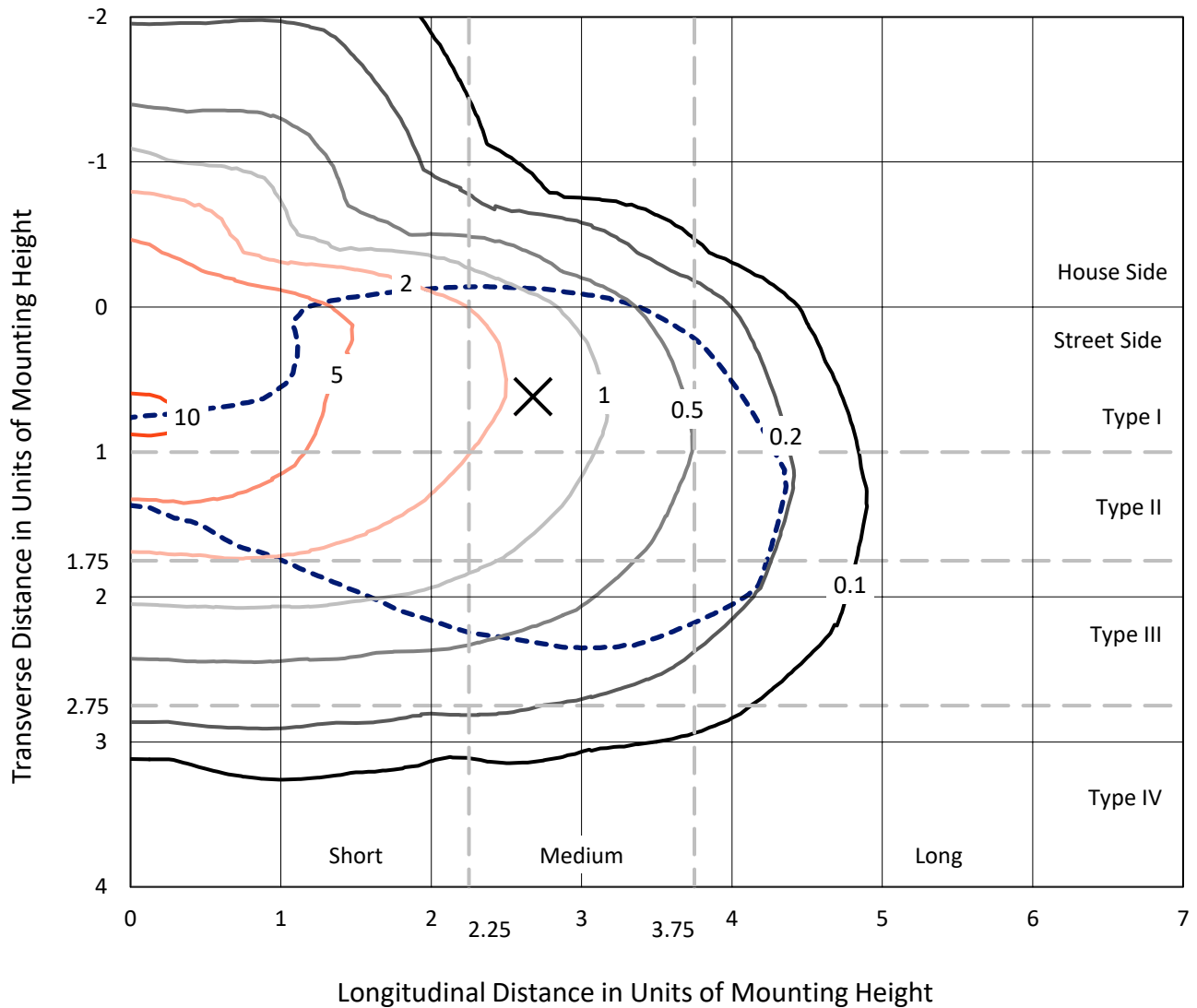
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

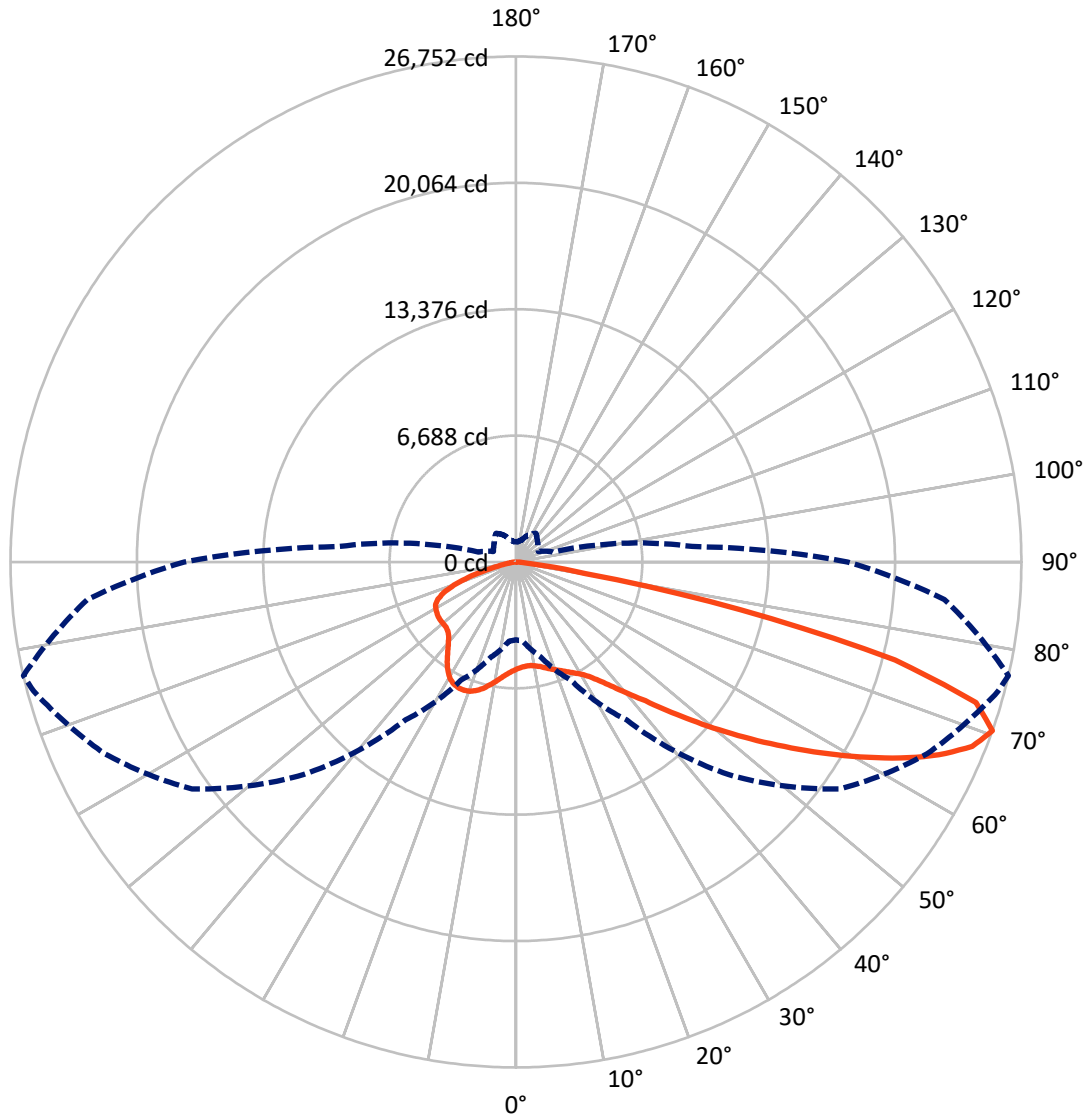
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8901.1	0.0	8901.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	31745.9	0.0	31745.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	40647.0	0.0	40647.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.8	1.3
10°-20°	1560.9	3.8
20°-30°	2669.3	6.6
30°-40°	4292.5	10.6
40°-50°	6701.8	16.5
50°-60°	8952.0	22.0
60°-70°	9541.4	23.5
70°-80°	5873.6	14.5
80°-90°	514.7	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°	40647.0	100.0
0°-180°	40647.0	100.0



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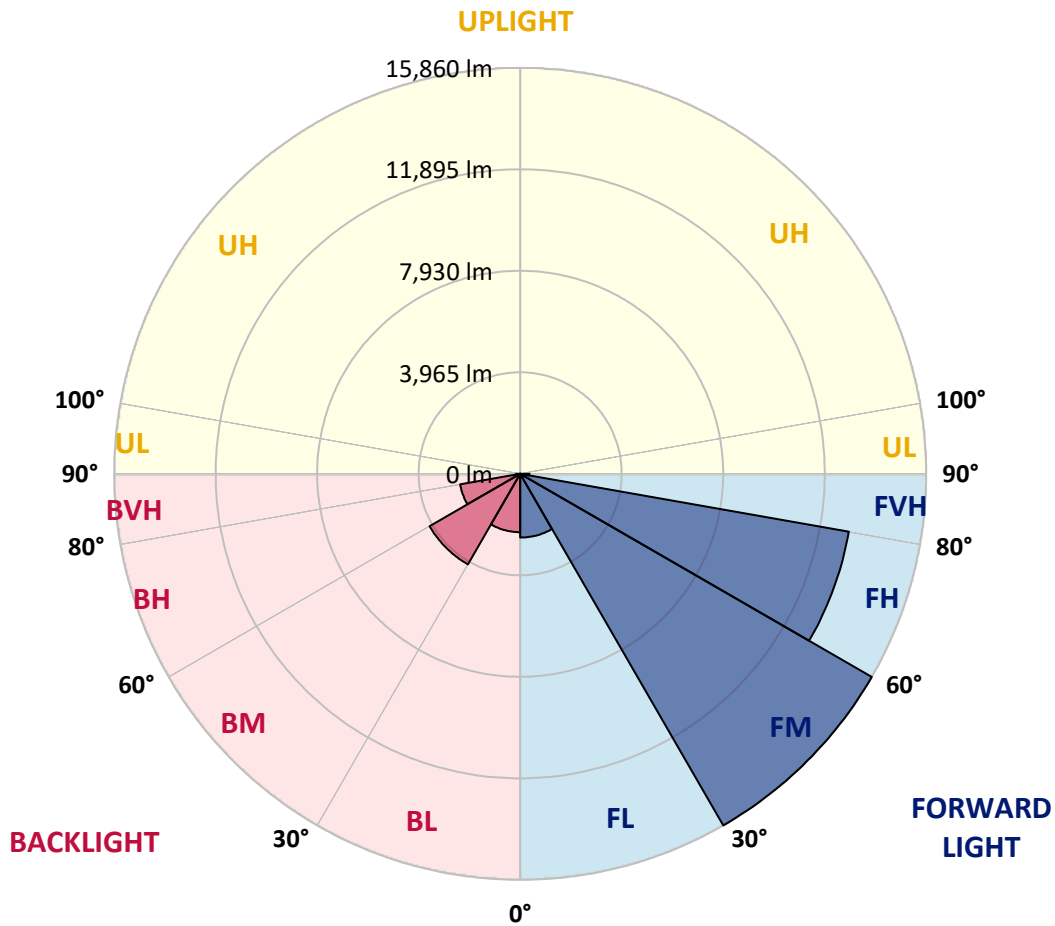
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2490.3	6.1			
FM (30°-60°)	15859.6	39.0			
FH (60°-80°)	13036.2	32.1			G5
FVH (80°-90°)	359.9	0.9			G3/500
BL (0°-30°)	2280.7	5.6	B3/2500		
BM (30°-60°)	4086.7	10.1	B3/5000		
BH (60°-80°)	2378.9	5.9	B3/2500		G3/2500
BVH (80°-90°)	154.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5670.6	5670.6	5670.6	5670.6	5670.6	5670.6	5670.6	5670.6	5670.6	5670.6
2.5°	5227.2	5225.1	5252.2	5260.5	5310.5	5345.9	5412.5	5483.3	5574.9	5585.3
5°	4925.4	4925.4	4956.6	4989.9	5054.4	5125.2	5227.2	5350.0	5508.3	5533.2
7.5°	4669.3	4686.0	4713.0	4777.6	4852.5	4954.5	5110.6	5285.5	5493.7	5533.2
10°	4463.2	4482.0	4515.3	4567.3	4679.7	4821.3	5025.3	5250.1	5529.1	5591.5
12.5°	4398.7	4417.4	4436.2	4475.7	4579.8	4746.3	4989.9	5266.8	5614.4	5676.9
15°	4548.6	4571.5	4556.9	4546.5	4600.6	4752.6	5006.6	5327.1	5720.6	5810.1
17.5°	4894.1	4902.5	4869.2	4771.3	4763.0	4844.2	5085.7	5410.4	5853.8	5951.7
20°	5452.0	5437.5	5368.8	5175.2	5064.8	5048.2	5221.0	5535.3	5991.2	6095.3
22.5°	6209.8	6193.1	6055.7	5749.7	5504.1	5341.7	5416.7	5697.7	6145.3	6261.8
25°	7154.9	7132.0	6930.1	6513.7	6132.8	5731.0	5683.1	5912.1	6334.7	6442.9
27.5°	8258.2	8239.5	8020.9	7471.3	6921.7	6263.9	6014.1	6164.0	6532.5	6655.3
30°	9444.8	9498.9	9111.7	8520.5	7825.2	6959.2	6459.6	6474.2	6788.5	6898.8
32.5°	10839.6	10933.2	10466.9	9717.5	8768.2	7714.9	7021.7	6907.2	7161.1	7252.7
35°	12221.8	12328.0	11940.8	11112.3	10019.4	8605.9	7608.7	7404.7	7656.6	7756.5
37.5°	13416.7	13558.3	13358.4	12638.2	11357.9	9680.0	8374.8	7989.7	8266.5	8391.4
40°	14359.8	14576.3	14561.7	14112.0	12935.9	10983.2	9347.0	8712.0	9024.3	9159.6
42.5°	15125.8	15313.2	15475.6	15452.7	14582.5	12463.3	10489.8	9650.9	9888.2	10044.3
45°	15654.6	15854.4	16204.2	16581.0	16166.7	14047.5	11799.2	10764.6	10981.1	11216.4
47.5°	16127.1	16354.1	16807.9	17405.3	17511.5	15637.9	13233.5	12061.5	12259.3	12502.9
50°	16168.8	16364.5	17068.1	17915.4	18467.0	17165.9	14774.0	13516.7	13701.9	13962.2
52.5°	15163.3	15471.4	16699.6	17900.8	18906.3	18444.1	16304.1	15030.1	15238.2	15550.5
55°	11770.1	12221.8	15619.2	17342.9	18750.1	19270.6	17759.2	16639.3	16905.7	17232.5
57.5°	10138.0	10335.8	12398.8	16327.0	18038.2	19485.0	18987.4	18265.1	18693.9	19052.0
60°	9111.7	9276.2	10496.1	14747.0	17101.4	19145.7	19936.7	19780.6	20521.7	20948.4
62.5°	8012.6	8168.7	9278.3	12313.4	15902.3	18581.5	20536.2	21179.5	22395.2	22861.5
65°	6921.7	7055.0	8118.7	10346.2	14378.5	18017.4	20846.4	22389.0	24129.3	24612.3
67.5°	5706.0	5816.3	6821.8	8728.7	12525.8	17245.0	21000.5	23340.3	25638.6	26052.8
70°	4117.7	4203.0	5241.8	6903.0	10200.5	15916.9	20938.0	24014.8	26421.3	26752.3
72.5°	1946.4	2023.4	3243.3	4482.0	7204.9	13331.4	19674.4	23479.8	25626.1	25461.6
75°	1038.8	1105.4	1863.1	2458.5	3805.4	9138.8	16100.1	20226.1	21518.8	20719.4
77.5°	703.6	755.7	1153.3	1475.9	1738.2	4338.3	10348.3	14003.8	13472.9	12153.1
80°	557.9	612.0	945.1	999.2	841.0	1567.5	4275.9	6482.5	4656.8	3724.2
82.5°	428.8	489.2	795.2	724.4	458.0	643.3	1244.9	2050.5	1192.8	907.6
85°	262.3	326.8	624.5	462.1	258.1	293.5	422.6	570.4	364.3	303.9
87.5°	133.2	187.4	316.4	168.6	116.6	68.7	112.4	112.4	95.8	83.3
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°
5670.6	0°	5670.6	5670.6	5670.6	5670.6	5670.6	5670.6	5670.6	5670.6	5670.6	5670.6
5641.5	2.5°	5691.4	5733.1	5803.9	5870.5	5922.5	5972.5	6022.4	6049.5	6057.8	6091.1
5672.7	5°	5758.1	5835.1	5972.5	6101.5	6182.7	6232.7	6268.1	6288.9	6293.1	6303.5
5758.1	7.5°	5880.9	6003.7	6195.2	6324.3	6384.7	6380.5	6365.9	6313.9	6293.1	6274.3
5883.0	10°	6053.7	6216.0	6451.3	6540.8	6503.3	6403.4	6274.3	6122.4	6051.6	5982.9
6053.7	12.5°	6268.1	6474.2	6705.2	6701.1	6515.8	6259.8	5960.0	5726.8	5579.0	5472.9
6263.9	15°	6528.3	6765.6	6942.6	6801.0	6395.1	5935.0	5495.8	5191.8	5058.6	4942.0
6476.3	17.5°	6796.8	7050.8	7132.0	6769.8	6091.1	5454.1	4956.6	4717.2	4586.0	4523.6
6705.2	20°	7059.1	7311.0	7244.4	6590.8	5629.0	4908.7	4465.3	4334.2	4307.1	4321.7
6928.0	22.5°	7336.0	7560.8	7267.3	6245.2	5039.9	4350.8	4107.2	4111.4	4171.8	4215.5
7161.1	25°	7619.1	7771.1	7206.9	5745.6	4407.0	3940.7	3880.3	3947.0	4065.6	4151.0
7423.4	27.5°	7891.8	7958.4	7075.8	5127.3	3863.7	3647.2	3657.6	3795.0	3974.0	4092.7
7741.9	30°	8199.9	8125.0	6823.9	4432.0	3486.9	3395.3	3482.7	3643.0	3822.1	3928.2
8143.7	32.5°	8547.6	8268.6	6424.2	3788.7	3220.4	3193.4	3337.0	3441.1	3520.2	3551.4
8676.6	35°	8980.6	8470.6	5912.1	3337.0	2981.0	3045.6	3183.0	3130.9	3099.7	3083.0
9392.8	37.5°	9542.6	8743.3	5312.6	3043.5	2787.4	2939.4	2995.6	2833.2	2710.4	2650.0
10260.8	40°	10219.2	9142.9	4735.9	2816.6	2664.6	2847.8	2750.0	2554.3	2398.2	2312.8
11237.2	42.5°	10970.7	9561.4	4250.9	2645.9	2595.9	2772.9	2568.9	2335.7	2083.8	2056.7
12400.9	45°	11759.7	9992.3	3919.9	2514.7	2562.6	2708.3	2464.8	2088.0	1908.9	2019.3
13568.7	47.5°	12548.7	10387.8	3720.0	2416.9	2546.0	2635.5	2373.2	1950.6	1823.6	1983.9
14819.8	50°	13427.1	10741.7	3630.5	2346.1	2527.2	2606.3	2235.8	1915.2	1734.1	1840.2
16114.7	52.5°	14299.4	11016.5	3563.9	2275.3	2500.2	2583.4	2169.2	1873.6	1625.8	1632.1
17417.8	55°	15169.6	11195.5	3491.1	2181.7	2439.8	2533.5	2162.9	1827.8	1544.6	1515.5
18795.9	57.5°	16098.0	11297.5	3401.5	2077.6	2335.7	2406.5	2156.7	1792.4	1519.7	1471.8
20205.3	60°	17043.1	11447.4	3285.0	1950.6	2196.2	2254.5	2142.1	1779.9	1505.1	1423.9
21533.4	62.5°	17890.4	11499.5	3145.5	1829.8	2017.2	2104.6	2110.9	1769.5	1465.5	1326.1
22636.7	65°	18446.2	11274.6	2901.9	1692.4	1823.6	1950.6	2050.5	1734.1	1394.8	1255.3
23182.1	67.5°	18423.3	10633.5	2521.0	1515.5	1636.2	1779.9	1963.1	1673.7	1309.4	1167.8
22769.9	70°	17565.6	9367.8	2038.0	1309.4	1430.1	1596.7	1850.7	1584.2	1207.4	1072.1
20246.9	72.5°	15065.5	7331.8	1480.1	1067.9	1190.7	1407.2	1704.9	1475.9	1103.3	986.7
14963.5	75°	10762.5	4640.2	1003.4	820.2	926.4	1192.8	1523.8	1349.0	1007.6	990.9
7494.2	77.5°	5497.8	2217.0	664.1	599.5	645.3	940.9	1280.3	1205.3	1022.1	818.1
2131.7	80°	1788.2	818.1	418.4	408.0	428.8	626.6	990.9	988.8	774.4	555.8
516.3	82.5°	570.4	351.8	272.7	262.3	251.9	393.4	691.1	782.7	522.5	351.8
185.3	85°	226.9	210.3	160.3	147.8	106.2	185.3	362.2	520.4	389.3	254.0
47.9	87.5°	83.3	83.3	43.7	31.2	22.9	62.5	97.8	156.1	222.7	131.1
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>
5670.6
6109.9
6320.1
6278.5
5962.1
5447.9
4929.5
4542.3
4315.4
4225.9
4173.9
4121.8
3953.2
3568.1
3099.7
2664.6
2319.0
2083.8
2077.6
2058.8
1919.4
1675.8
1536.3
1478.0
1430.1
1326.1
1255.3
1174.1
<i>1084.6</i>
980.5
934.7
728.6
491.3
349.7
260.2
129.1
0.0

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