

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: P943545

Luminaire Tested: **GALN-SB8A-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31253 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

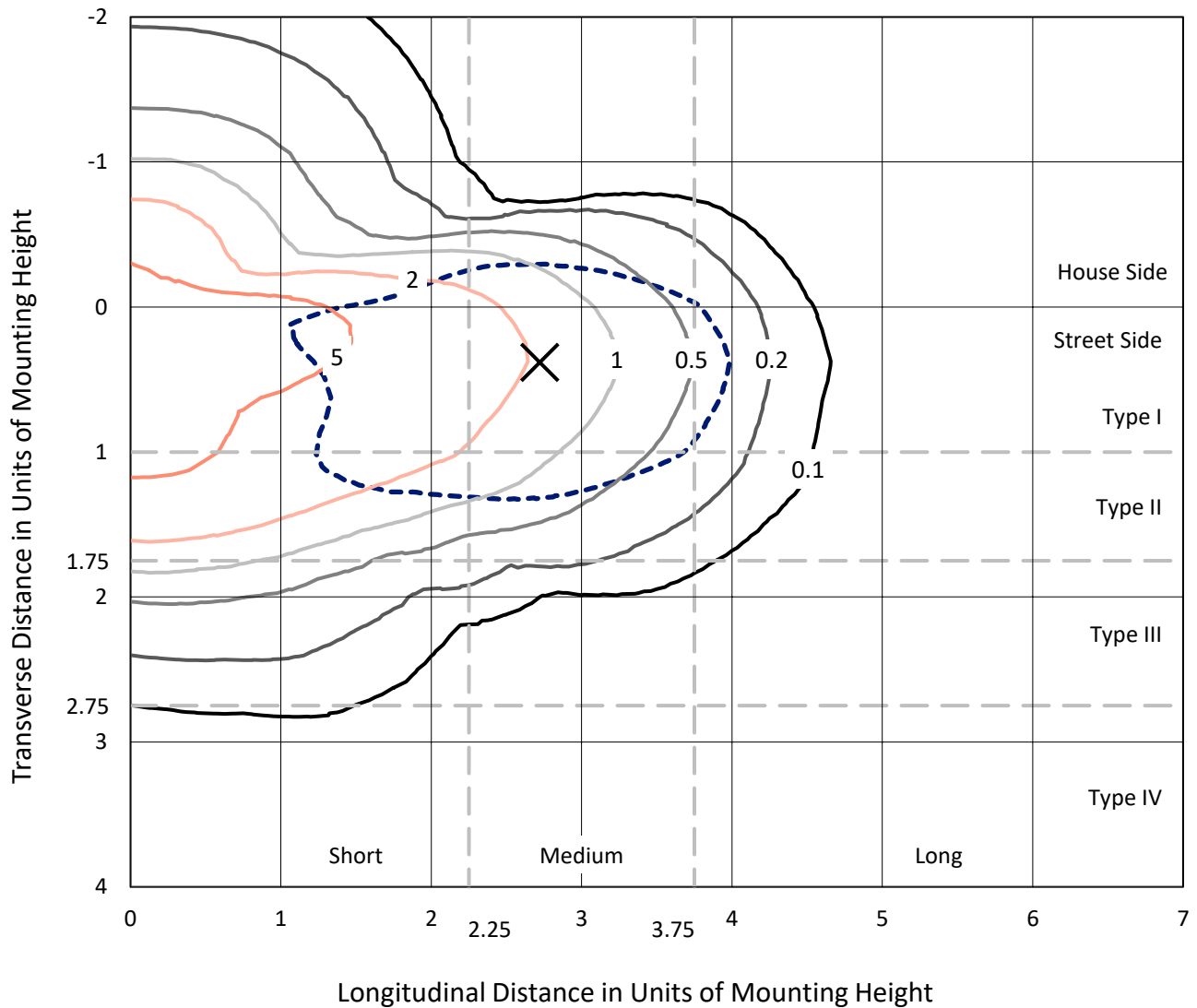
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

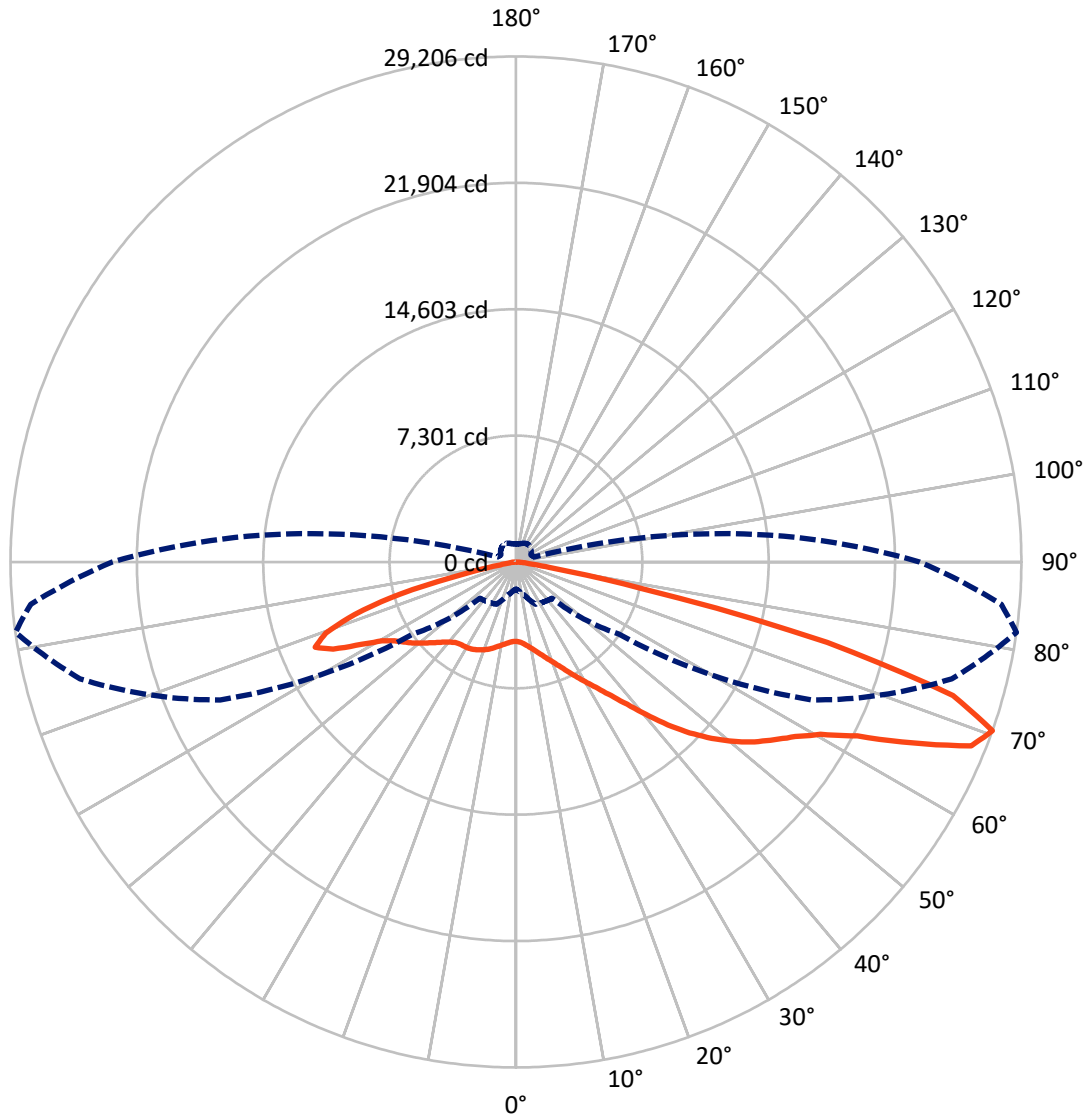
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7704.6	0.0	7704.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	23548.4	0.0	23548.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	31253.0	0.0	31253.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.6	1.4
10°-20°	1243.0	4.0
20°-30°	2079.4	6.7
30°-40°	3248.5	10.4
40°-50°	5173.6	16.6
50°-60°	7199.7	23.0
60°-70°	7531.2	24.1
70°-80°	3936.2	12.6
80°-90°	408.7	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°	31253.0	100.0
0°-180°	31253.0	100.0

Coefficient of Utilization



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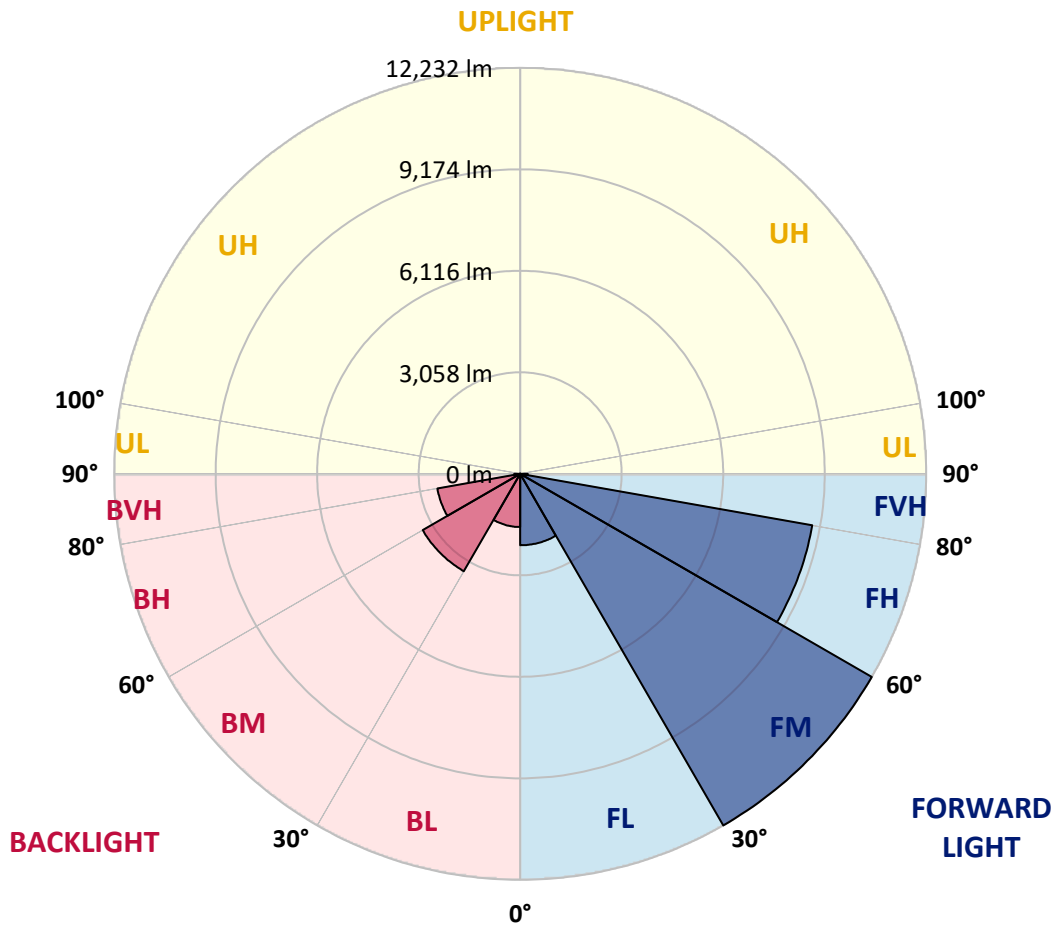
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2152.1	6.9			
FM (30°-60°)	12232.1	39.1			
FH (60°-80°)	8935.3	28.6			G4/12000
FVH (80°-90°)	228.8	0.7			G3/500
BL (0°-30°)	1602.8	5.1	B3/2500		
BM (30°-60°)	3389.7	10.8	B3/5000		
BH (60°-80°)	2532.1	8.1	B4/5000		G4/5000
BVH (80°-90°)	179.9	0.6			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4582.1	4582.1	4582.1	4582.1	4582.1	4582.1	4582.1	4582.1	4582.1	4582.1
2.5°	4691.5	4718.1	4709.8	4701.5	4701.5	4689.9	4688.2	4671.6	4658.4	4636.8
5°	4751.2	4779.4	4776.1	4782.7	4804.3	4809.3	4814.3	4804.3	4777.8	4751.2
7.5°	4698.2	4729.7	4739.6	4779.4	4845.8	4905.5	4950.2	4968.5	4943.6	4905.5
10°	4519.1	4553.9	4588.7	4683.2	4801.0	4941.9	5061.3	5132.7	5127.7	5091.2
12.5°	4155.9	4192.4	4267.0	4451.1	4666.7	4915.4	5137.6	5286.9	5338.3	5311.8
15°	3865.7	3897.2	3953.6	4142.6	4422.9	4801.0	5165.8	5456.0	5587.1	5572.1
17.5°	3857.4	3870.6	3905.5	3995.0	4210.6	4621.9	5136.0	5621.9	5872.3	5870.6
20°	4003.3	4008.3	4028.2	4046.4	4169.1	4485.9	5059.7	5759.5	6192.4	6192.4
22.5°	4205.6	4202.3	4222.2	4205.6	4265.3	4474.3	5011.6	5880.6	6548.9	6575.4
25°	4509.1	4492.5	4487.6	4449.4	4461.0	4582.1	5064.7	6018.2	6971.8	7026.5
27.5°	4913.8	4887.2	4869.0	4781.1	4751.2	4804.3	5227.2	6184.1	7442.8	7537.3
30°	5441.1	5393.0	5366.5	5213.9	5106.1	5114.4	5472.6	6404.6	7935.3	8087.9
32.5°	6160.9	6086.2	6014.9	5764.5	5567.2	5502.5	5789.4	6709.8	8469.3	8713.1
35°	6966.8	6907.1	6830.8	6444.4	6140.9	5991.7	6217.2	7136.0	9094.5	9480.9
37.5°	7742.9	7691.5	7728.0	7207.3	6815.9	6598.7	6777.8	7708.1	9865.7	10436.1
40°	8545.6	8505.8	8510.8	8013.3	7557.2	7313.4	7457.7	8426.2	10749.6	11572.1
42.5°	9417.9	9388.0	9288.5	8847.4	8335.0	8107.8	8240.4	9255.4	11698.2	12865.6
45°	10394.7	10376.4	10283.6	9777.8	9190.7	8935.3	9114.4	10170.8	12651.7	14082.9
47.5°	11238.8	11253.7	11242.1	10815.9	10207.3	9832.5	10046.4	11126.0	13538.9	15227.2
50°	11645.1	11723.0	11837.5	11704.8	11326.7	10945.3	10986.7	12048.1	14384.7	16300.1
52.5°	11432.8	11580.4	11892.2	12104.5	12250.4	12170.8	12059.7	12963.5	15180.7	17268.6
55°	10641.8	10849.1	11366.5	11878.9	12623.5	13202.3	13348.2	13978.4	15956.9	18121.0
57.5°	9200.6	9537.3	10001.6	11038.1	12291.8	13701.5	14850.7	15386.4	16779.4	19031.5
60°	6729.7	7180.7	7757.9	9300.1	11131.0	13434.5	16129.3	17548.9	17948.6	20210.6
62.5°	4306.8	4585.4	5116.1	6568.8	8673.3	12066.3	16520.7	20252.0	19930.3	22144.2
65°	2948.6	3127.7	3613.6	4429.5	5607.0	8981.7	15472.6	22278.6	23077.9	25208.9
67.5°	2142.6	2278.6	2693.2	3408.0	3653.4	5315.1	12006.6	22185.7	26137.6	28366.4
70°	1562.2	1658.4	2006.6	2693.2	2810.9	2956.9	7273.6	18859.0	26071.3	29205.6
72.5°	1157.5	1223.9	1457.7	2089.5	2275.3	1996.7	3600.3	13706.4	22402.9	26416.2
75°	837.5	887.2	1059.7	1598.7	1820.9	1520.7	1796.0	8009.9	15626.8	18582.1
77.5°	640.1	678.3	791.0	1170.8	1457.7	1141.0	1114.4	3684.9	7409.6	7446.1
80°	514.1	539.0	600.3	824.2	1117.7	854.1	726.4	1487.6	2341.6	1981.8
82.5°	378.1	419.6	507.5	578.8	799.3	588.7	442.8	751.2	890.5	766.2
85°	215.6	243.8	306.8	414.6	510.8	359.9	253.7	333.3	414.6	340.0
87.5°	76.3	99.5	107.8	162.5	222.2	149.3	97.8	96.2	136.0	101.2
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°
4582.1	0°	4582.1	4582.1	4582.1	4582.1	4582.1	4582.1	4582.1	4582.1	4582.1	4582.1
4631.8	2.5°	4615.2	4607.0	4573.8	4529.0	4482.6	4437.8	4422.9	4391.4	4369.8	4358.2
4739.6	5°	4708.1	4681.6	4603.6	4504.1	4399.7	4286.9	4207.3	4134.3	4081.3	4031.5
4887.2	7.5°	4840.8	4794.4	4660.0	4485.9	4300.2	4112.8	3973.5	3867.3	3796.0	3749.6
5059.7	10°	4995.0	4923.7	4718.1	4457.7	4170.8	3902.1	3738.0	3646.8	3602.0	3577.1
5257.0	12.5°	5172.5	5071.3	4777.8	4393.0	3973.5	3666.7	3553.9	3527.4	3529.0	3530.7
5505.8	15°	5391.4	5250.4	4825.9	4252.1	3716.4	3485.9	3466.0	3509.1	3553.9	3575.4
5787.7	17.5°	5638.5	5439.5	4834.2	4019.9	3464.3	3369.8	3432.8	3525.7	3593.7	3623.5
6102.8	20°	5903.8	5631.8	4774.5	3691.5	3257.0	3275.3	3388.1	3507.5	3582.1	3620.2
6462.7	22.5°	6207.3	5837.5	4631.8	3346.6	3087.9	3172.5	3305.1	3421.2	3499.2	3537.3
6885.6	25°	6553.9	6068.0	4408.0	3056.4	2942.0	3056.4	3189.0	3285.2	3348.3	3383.1
7358.2	27.5°	6938.6	6308.4	4109.4	2825.9	2814.3	2937.0	3046.4	3121.1	3154.2	3180.8
7860.7	30°	7325.0	6527.4	3747.9	2651.7	2703.1	2819.2	2897.2	2930.3	2940.3	2945.3
8421.2	32.5°	7742.9	6716.4	3368.2	2507.5	2597.0	2704.8	2751.2	2766.2	2719.7	2688.2
9101.1	35°	8248.7	6918.7	2996.7	2393.0	2492.5	2585.4	2600.3	2587.1	2532.3	2467.7
9953.5	37.5°	8873.9	7170.8	2699.8	2311.8	2394.7	2456.0	2437.8	2434.5	2439.5	2363.2
10978.4	40°	9640.1	7499.2	2482.6	2248.8	2315.1	2328.4	2276.9	2305.1	2330.0	2213.9
12102.8	42.5°	10490.9	7895.5	2344.9	2205.6	2248.8	2217.2	2137.6	2169.1	2165.8	2013.3
13232.1	45°	11358.2	8326.7	2296.8	2174.1	2187.4	2124.4	2036.5	2044.8	1975.1	1837.5
14315.1	47.5°	12220.5	8789.4	2326.7	2147.6	2111.1	2039.8	1971.8	1935.3	1832.5	1729.7
15353.2	50°	13066.3	9275.3	2436.1	2094.5	2006.6	1965.2	1915.4	1850.7	1741.3	1653.4
16335.0	52.5°	13850.7	9764.5	2558.9	2006.6	1875.6	1900.5	1869.0	1794.4	1686.6	1597.0
17263.6	55°	14593.7	10253.7	2607.0	1885.6	1752.9	1844.1	1825.9	1688.2	1558.9	1485.9
18235.5	57.5°	15403.0	10842.4	2553.9	1731.3	1653.4	1779.4	1709.8	1557.2	1482.6	1427.9
19500.8	60°	16524.0	11766.1	2439.5	1540.6	1558.9	1683.2	1563.8	1500.8	1419.6	1358.2
21398.0	62.5°	18386.4	13489.2	2255.4	1351.6	1447.8	1540.6	1494.2	1431.2	1348.3	1288.6
24641.7	65°	21139.3	15883.9	1908.8	1204.0	1323.4	1401.3	1419.6	1356.5	1270.3	1207.3
27484.2	67.5°	23461.0	17386.4	1444.4	1081.3	1195.7	1288.6	1340.0	1278.6	1187.4	1126.0
28149.2	70°	23333.3	16295.2	1102.8	960.2	1082.9	1177.4	1243.8	1195.7	1097.8	1039.8
25568.8	72.5°	20724.7	13631.8	892.2	837.5	968.5	1061.4	1141.0	1104.5	1005.0	948.6
18731.3	75°	15225.5	9676.6	713.1	713.1	825.9	940.3	1028.2	1005.0	913.8	874.0
7864.0	77.5°	6417.9	4059.7	558.9	592.0	686.6	807.6	917.1	925.4	845.8	895.5
2079.6	80°	1706.5	1119.4	426.2	466.0	539.0	666.7	797.7	794.4	708.1	661.7
772.8	82.5°	650.1	441.1	303.5	328.4	389.7	510.8	631.8	651.7	565.5	489.2
303.5	85°	250.4	189.1	187.4	197.3	227.2	338.3	477.6	494.2	426.2	361.5
84.6	87.5°	64.7	56.4	69.7	66.3	104.5	180.8	273.6	283.6	260.4	150.9
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>
4582.1
4371.5
4051.4
3759.5
3583.7
3534.0
3573.8
3630.2
3630.2
3547.3
3393.0
3190.7
2956.9
2698.2
2471.0
2368.2
2217.2
2011.6
1842.5
1729.7
1646.8
1598.7
1479.3
1422.9
1354.9
1288.6
1210.6
1127.7
<i>1044.8</i>
948.6
862.4
812.6
615.3
489.2
373.1
215.6
0.0

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