

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: P944012

Luminaire Tested: **GALN-SB8D-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-735-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 81566 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

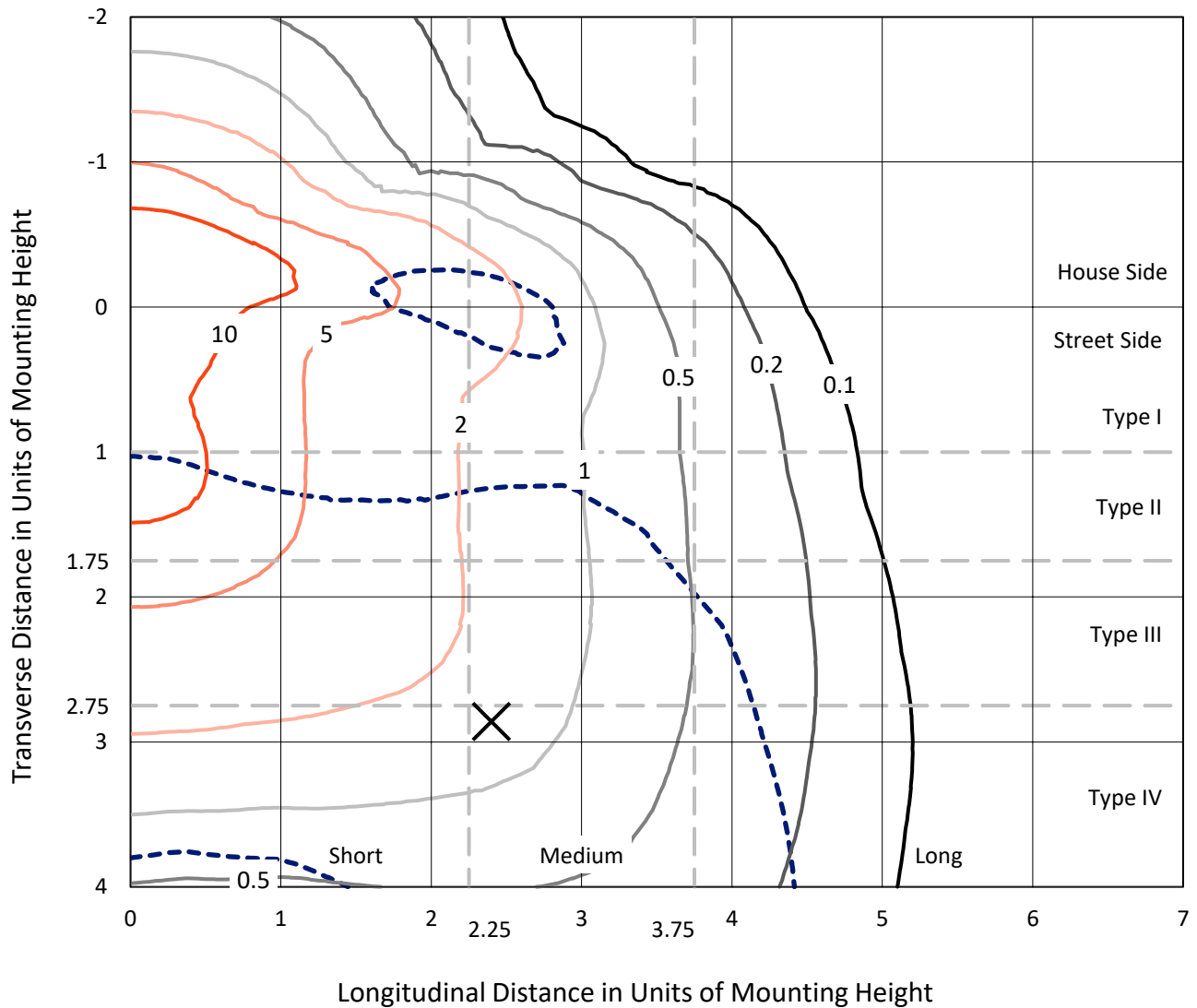
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

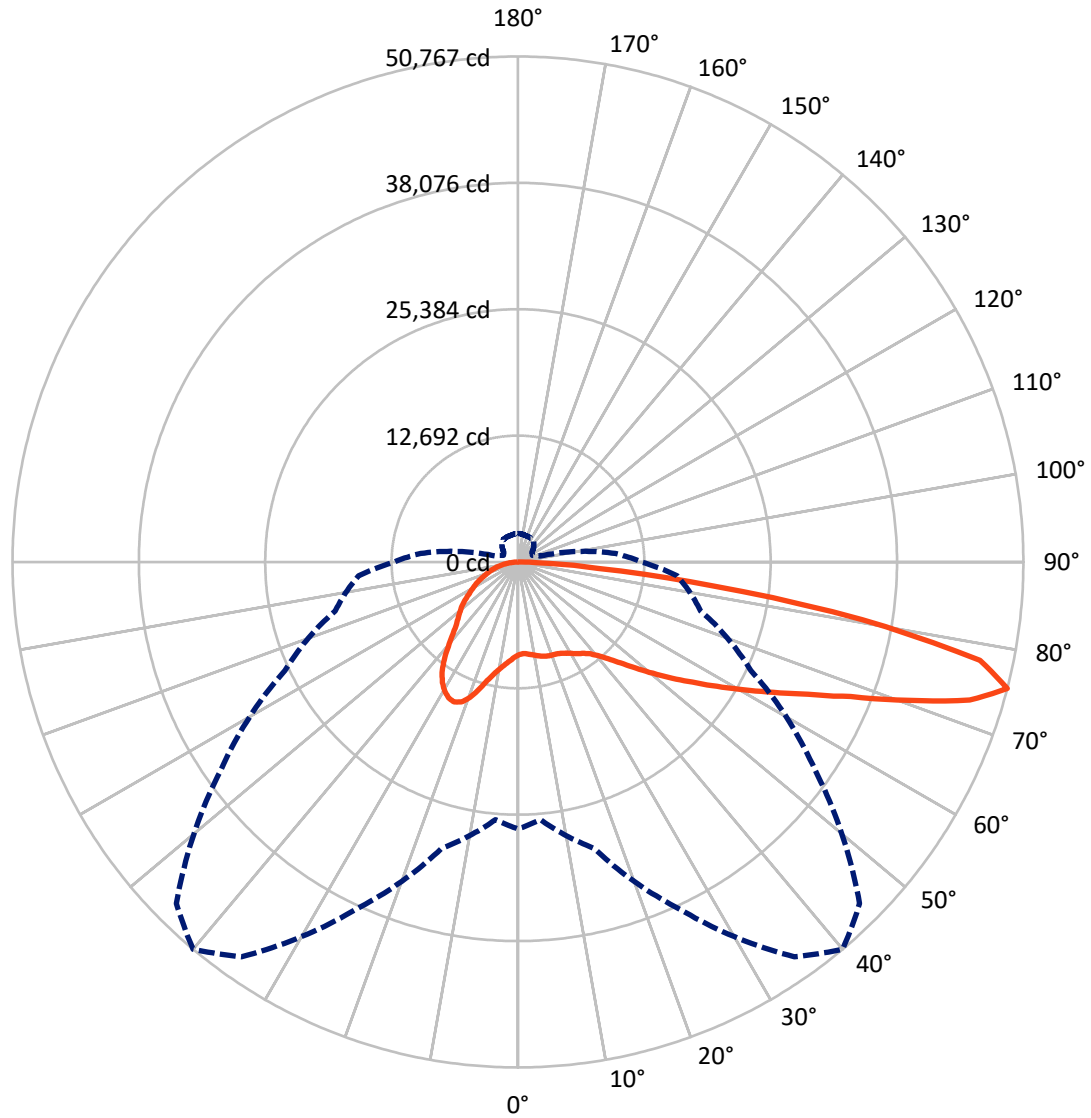
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25271.9	0.0	25271.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	56294.1	0.0	56294.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	81566.0	0.0	81566.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	931.0	1.1
10°-20°	3125.9	3.8
20°-30°	5707.6	7.0
30°-40°	8095.0	9.9
40°-50°	10930.7	13.4
50°-60°	14704.7	18.0
60°-70°	18663.6	22.9
70°-80°	16938.4	20.8
80°-90°	2469.1	3.0
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°	81566.0	100.0
0°-180°	81566.0	100.0

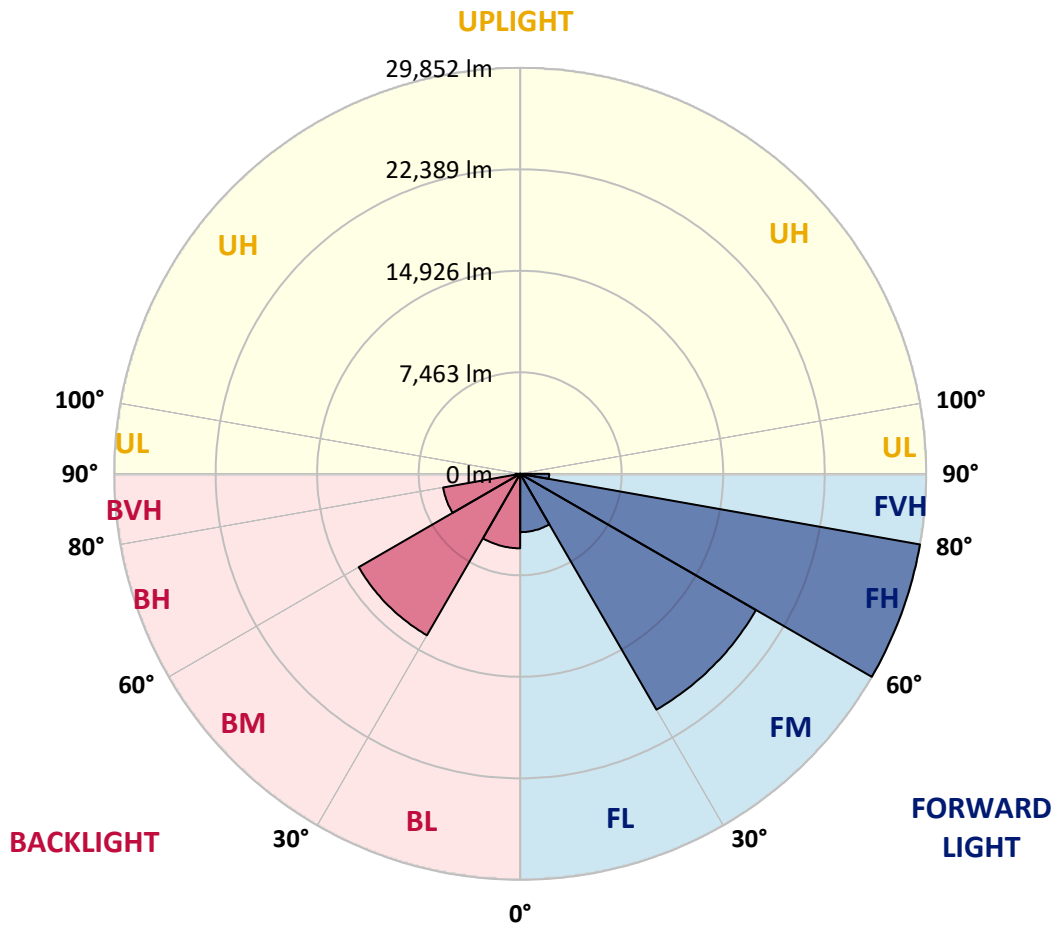


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4290.5	5.3			
FM (30°-60°)	20022.6	24.5			
FH (60°-80°)	29851.9	36.6			G5
FVH (80°-90°)	2129.1	2.6			G5
BL (0°-30°)	5474.1	6.7	B5		
BM (30°-60°)	13707.7	16.8	B5		
BH (60°-80°)	5750.1	7.0	B5		G5
BVH (80°-90°)	339.9	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	9327.2	9327.2	9327.2	9327.2	9327.2	9327.2	9327.2	9327.2	9327.2	9327.2
2.5°	9184.4	9236.3	9223.4	9206.0	9206.0	9210.4	9206.0	9236.3	9266.6	9296.9
5°	9279.6	9331.5	9305.6	9283.9	9266.6	9262.3	9249.3	9245.0	9262.3	9301.2
7.5°	9465.6	9517.5	9478.6	9439.7	9405.1	9387.7	9370.4	9344.5	9331.5	9353.1
10°	9673.3	9725.2	9677.6	9608.4	9552.1	9530.5	9513.2	9487.2	9469.9	9482.9
12.5°	9880.9	9932.8	9867.9	9772.8	9699.2	9686.3	9664.6	9656.0	9651.6	9647.3
15°	10075.6	10118.9	10036.7	9924.2	9846.3	9824.7	9803.1	9816.0	9837.7	9863.6
17.5°	10227.0	10270.3	10149.1	10002.1	9928.5	9919.9	9906.9	9950.1	10010.7	10075.6
20°	10365.5	10408.7	10253.0	10054.0	9967.5	9967.5	9971.8	10062.6	10149.1	10244.3
22.5°	10560.1	10594.7	10404.4	10131.8	10006.4	10015.0	10049.6	10140.5	10248.7	10378.4
25°	10850.0	10875.9	10642.3	10278.9	10136.2	10162.1	10192.4	10235.7	10339.5	10490.9
27.5°	11317.2	11338.8	11031.7	10538.5	10322.2	10365.5	10408.7	10378.4	10426.0	10555.8
30°	11974.8	11987.8	11598.4	10945.2	10638.0	10659.6	10668.3	10542.8	10452.0	10555.8
32.5°	12753.5	12749.2	12286.3	11438.3	10997.1	10975.4	10901.9	10655.3	10443.3	10534.2
35°	13960.5	13912.9	13315.9	12130.5	11403.7	11269.6	11096.6	10780.8	10486.6	10512.5
37.5°	15959.2	15812.1	14985.8	13264.0	12009.4	11667.6	11412.4	10984.1	10581.8	10503.9
40°	18213.1	18027.1	17118.6	14817.1	12917.9	12368.5	11957.5	11273.9	10737.5	10542.8
42.5°	20886.7	20622.8	19645.1	16647.0	14068.6	13272.6	12654.0	11641.7	10966.8	10668.3
45°	24170.2	23819.8	22435.4	18710.6	15517.9	14458.0	13631.7	12199.7	11317.2	10910.6
47.5°	27488.4	27574.9	25606.5	21072.7	17257.0	15920.2	14856.0	13039.0	11827.7	11299.9
50°	31014.2	31074.7	28760.2	23690.0	19229.7	17572.8	16231.7	13977.8	12537.2	11853.7
52.5°	33765.6	33774.3	31624.2	26428.5	21284.7	19389.8	17715.6	15050.7	13359.2	12589.1
55°	35487.4	35465.8	33631.5	29019.8	23646.7	21297.6	19359.5	16270.7	14362.8	13454.3
57.5°	36737.7	36672.8	35015.9	31247.8	26164.6	23551.6	21219.8	17655.0	15548.2	14484.0
60°	37213.5	37174.6	35954.6	33172.9	28812.2	26043.4	23365.5	19203.8	16893.6	15699.6
62.5°	37395.2	37468.8	36876.1	35037.5	31645.8	28803.5	25723.3	21055.4	18407.8	17075.3
65°	38035.5	38169.6	38048.5	37477.4	34847.1	32035.1	28851.1	23257.4	20060.4	18550.5
67.5°	39303.1	39437.2	39489.1	40397.6	38758.0	36062.8	32753.3	26000.2	21994.1	20082.0
70°	39272.8	39233.9	40151.0	42720.7	43655.2	41639.2	38013.9	29374.6	24300.0	21353.9
72.5°	35747.0	35435.5	37602.9	42694.8	47730.4	47462.2	44438.2	33726.7	26290.0	21509.6
75°	26817.8	25987.2	29815.8	38476.8	48409.6	50767.4	48522.1	36426.2	25818.5	19004.8
77.5°	11468.6	10633.7	15145.9	28483.4	43326.4	47457.9	44775.7	31779.9	20609.8	12567.5
80°	3002.3	2998.0	4577.1	12913.6	29465.4	35046.1	30746.0	20523.3	11775.8	4490.5
82.5°	1241.6	1211.3	1682.9	5022.7	14397.4	19666.7	16050.0	9154.1	4252.6	1215.6
85°	462.9	458.6	817.6	1734.8	5078.9	8111.5	5870.6	2340.4	1059.9	592.7
87.5°	129.8	125.5	177.4	601.3	1237.3	1877.5	1003.7	385.0	298.5	233.6
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°
9327.2	0°	9327.2	9327.2	9327.2	9327.2	9327.2	9327.2	9327.2	9327.2	9327.2	9327.2
9344.5	2.5°	9357.5	9379.1	9418.0	9448.3	9487.2	9530.5	9591.1	9630.0	9668.9	9694.9
9366.1	5°	9396.4	9444.0	9543.5	9643.0	9759.8	9867.9	9993.4	10084.3	10157.8	10179.4
9444.0	7.5°	9482.9	9560.8	9729.5	9898.2	10084.3	10261.6	10443.3	10599.1	10724.5	10772.1
9582.4	10°	9634.3	9738.2	9976.1	10214.0	10460.6	10733.2	10966.8	11191.8	11369.1	11442.7
9746.8	12.5°	9824.7	9954.5	10266.0	10594.7	10936.5	11312.9	11615.7	11892.6	12113.2	12212.7
9976.1	15°	10071.3	10240.0	10638.0	11079.3	11581.1	12104.6	12489.6	12796.8	13043.3	13164.5
10214.0	17.5°	10339.5	10564.5	11066.3	11732.5	12450.7	13138.5	13588.4	13813.4	14068.6	14185.4
10434.7	20°	10599.1	10875.9	11594.1	12563.1	13519.2	14250.3	14613.7	14674.3	14691.6	14704.6
10642.3	22.5°	10867.3	11239.3	12256.0	13610.1	14635.4	15141.5	15193.4	14933.9	14570.5	14401.8
10845.7	25°	11161.5	11654.6	13121.2	14765.2	15595.8	15656.3	15258.3	14626.7	13938.9	13623.0
11010.1	27.5°	11447.0	12134.9	14159.5	15868.3	16288.0	15755.8	14899.3	14003.7	13173.1	12840.0
11126.9	30°	11732.5	12684.3	15305.9	16833.1	16603.8	15509.3	14332.5	13333.2	12498.2	12147.8
11230.7	32.5°	12022.4	13324.5	16625.4	17529.6	16547.5	14985.8	13627.4	12580.4	11845.0	11477.3
11321.5	35°	12351.2	14111.9	17875.7	17910.3	16171.2	14215.7	12697.3	11680.6	11040.3	10746.2
11429.7	37.5°	12779.4	15111.2	18978.8	18005.4	15513.6	13086.6	11542.2	10616.4	10088.6	9954.5
11589.8	40°	13311.6	16313.9	19822.4	17854.0	14540.2	11715.2	10278.9	9539.2	9240.7	9270.9
11806.1	42.5°	14003.7	17659.3	20415.1	17464.7	13186.1	10300.6	9171.4	8842.7	8985.4	9106.5
12130.5	45°	14903.6	19056.7	20782.8	16802.8	11654.6	9102.2	8518.2	8596.1	8704.2	8717.2
12654.0	47.5°	16054.3	20471.3	21025.1	15803.4	10092.9	8258.6	8102.9	8120.2	8098.6	8007.7
13437.0	50°	17490.6	21847.1	21241.4	14479.6	8764.8	7730.8	7523.2	7462.6	7164.1	6869.9
14479.6	52.5°	19125.9	23110.3	21332.2	12835.7	7730.8	7289.6	6952.1	6571.4	6013.3	5922.5
15790.4	55°	20942.9	24278.4	21098.6	10815.4	6861.3	6722.8	6212.4	5753.8	5693.2	5615.3
17516.6	57.5°	23114.6	25537.3	20622.8	8561.5	5970.1	6060.9	5563.4	5615.3	5507.2	5386.1
19735.9	60°	25489.7	26839.4	19787.8	6506.5	5048.6	5234.6	5394.7	5390.4	5360.1	5260.6
22076.3	62.5°	27626.8	27696.0	18143.9	4983.7	4239.6	4594.4	5031.3	5027.0	5001.0	4944.8
24520.6	65°	28898.7	27566.2	15401.1	3923.8	3573.4	4066.6	4538.1	4572.7	4577.1	4572.7
26359.2	67.5°	28673.7	26047.8	11637.3	3123.5	3024.0	3530.1	4049.3	4096.9	4131.5	4140.1
26592.8	70°	26129.9	22712.3	7588.1	2491.9	2535.1	3058.6	3586.4	3634.0	3664.2	3698.9
23075.7	72.5°	20367.5	16698.9	4343.5	2016.0	2106.8	2651.9	3127.8	3184.0	3201.4	3266.2
16058.7	75°	12411.7	9820.4	2344.8	1587.7	1730.5	2266.9	2673.6	2738.5	2768.7	2846.6
7886.6	77.5°	5900.9	4252.6	1336.8	1237.3	1393.0	1851.6	2258.3	2331.8	2249.6	2292.9
2176.1	80°	1994.4	1579.0	843.6	943.1	1064.2	1444.9	1808.3	1881.9	1708.8	1700.2
722.5	82.5°	696.5	640.3	536.4	627.3	687.9	1034.0	1367.1	1462.2	1271.9	1267.6
324.5	85°	272.5	259.6	298.5	341.8	411.0	635.9	899.8	947.4	783.0	631.6
95.2	87.5°	56.2	60.6	73.5	77.9	125.5	220.6	324.5	398.0	315.8	268.2
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>
9327.2
9677.6
10188.1
10776.4
11447.0
12212.7
13155.8
14181.1
14739.2
14449.3
13670.6
12879.0
12186.8
11524.9
10811.1
10049.6
9374.8
9219.0
8803.7
8076.9
6908.9
5952.8
5628.3
5364.4
5226.0
4923.2
4572.7
4148.8
3716.2
3292.2
2855.3
2258.3
1682.9
1207.0
623.0
246.6
0.0

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