

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: P948838

Luminaire Tested: **GALN-SB3D-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948838
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-SB3D-735-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31344 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

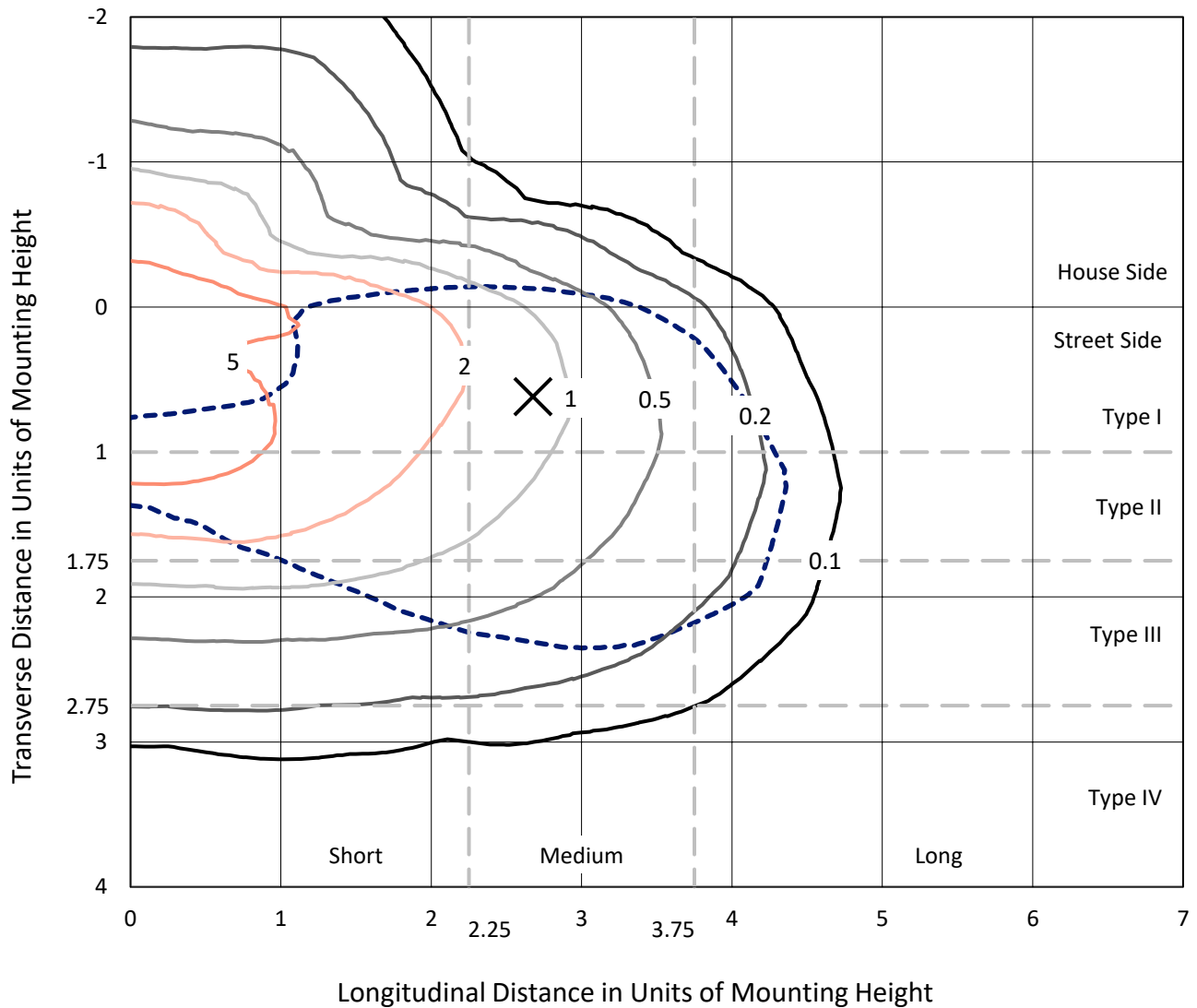
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

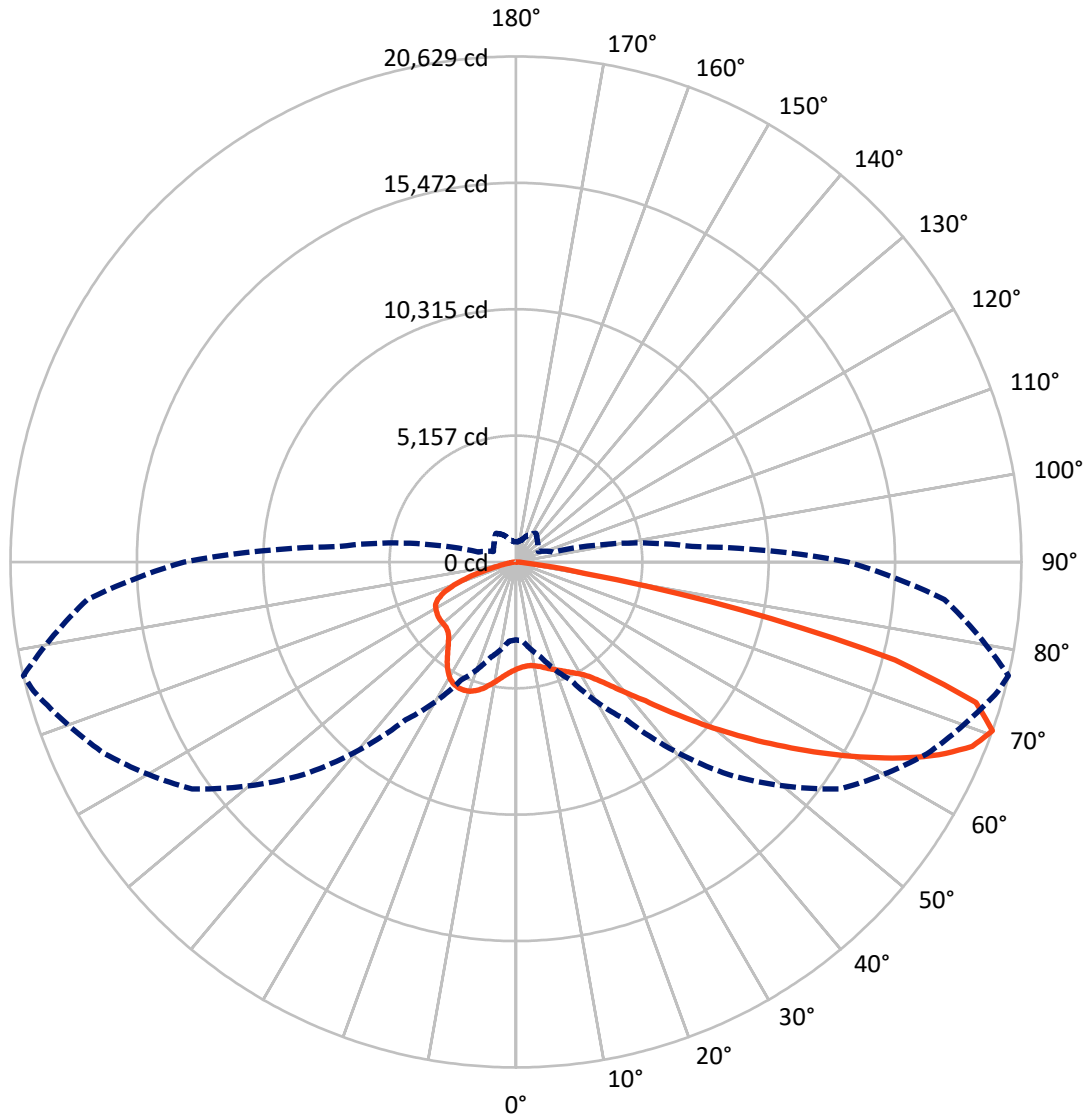
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type 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	6863.8	0.0	6863.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	24480.1	0.0	24480.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	31344.0	0.0	31344.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.0	1.3
10°-20°	1203.6	3.8
20°-30°	2058.4	6.6
30°-40°	3310.1	10.6
40°-50°	5167.9	16.5
50°-60°	6903.1	22.0
60°-70°	7357.6	23.5
70°-80°	4529.3	14.5
80°-90°	396.9	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°	31344.0	100.0
0°-180°	31344.0	100.0



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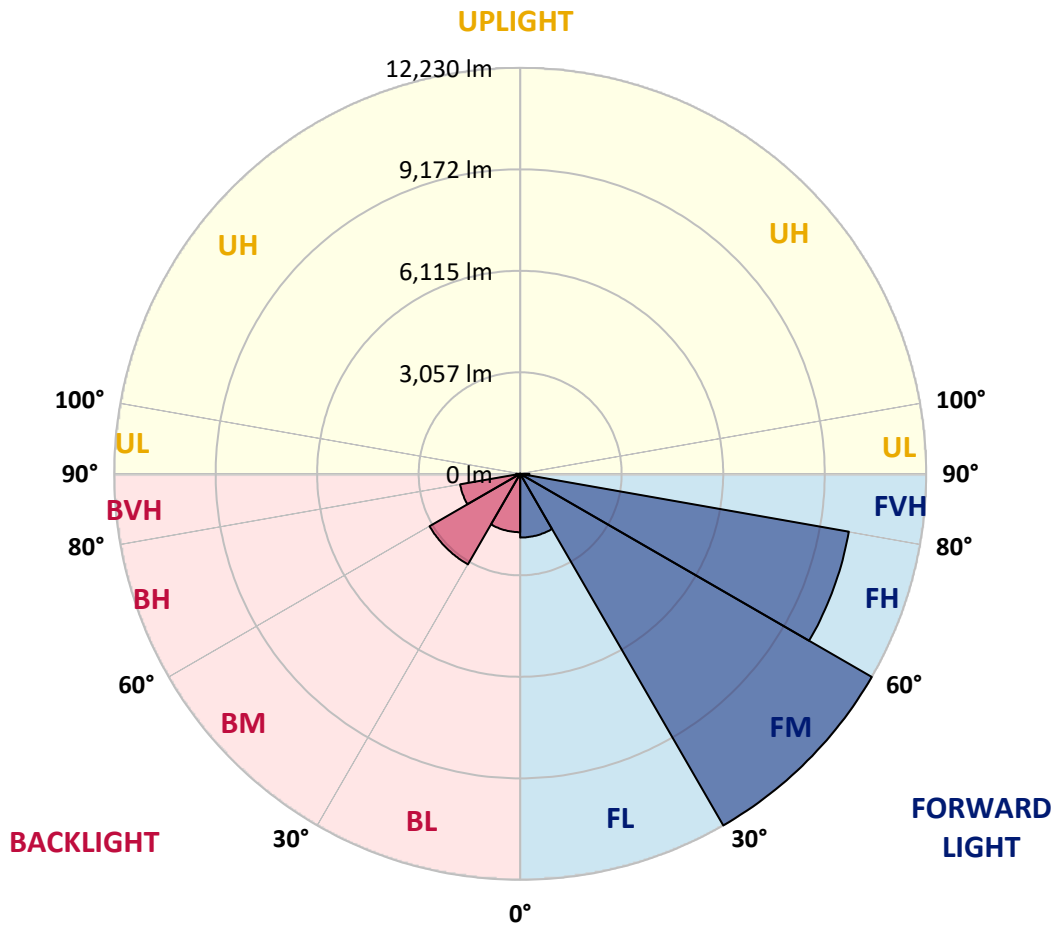
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1920.3	6.1			
FM (30°-60°)	12229.8	39.0			
FH (60°-80°)	10052.5	32.1			G4/12000
FVH (80°-90°)	277.5	0.9			G3/500
BL (0°-30°)	1758.7	5.6	B3/2500		
BM (30°-60°)	3151.3	10.1	B3/5000		
BH (60°-80°)	1834.4	5.9	B3/2500		G3/2500
BVH (80°-90°)	119.4	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-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4372.8	4372.8	4372.8	4372.8	4372.8	4372.8	4372.8	4372.8	4372.8	4372.8
2.5°	4030.8	4029.2	4050.1	4056.5	4095.1	4122.4	4173.7	4228.3	4298.9	4307.0
5°	3798.1	3798.1	3822.2	3847.8	3897.6	3952.2	4030.8	4125.6	4247.6	4266.8
7.5°	3600.6	3613.5	3634.3	3684.1	3741.9	3820.6	3941.0	4075.8	4236.3	4266.8
10°	3441.7	3456.2	3481.8	3522.0	3608.7	3717.8	3875.1	4048.5	4263.6	4311.8
12.5°	3391.9	3406.4	3420.8	3451.3	3531.6	3660.0	3847.8	4061.4	4329.4	4377.6
15°	3507.5	3525.2	3514.0	3505.9	3547.7	3664.8	3860.7	4107.9	4411.3	4480.3
17.5°	3774.0	3780.4	3754.7	3679.3	3672.9	3735.5	3921.7	4172.1	4514.0	4589.5
20°	4204.2	4193.0	4140.0	3990.7	3905.6	3892.8	4026.0	4268.4	4620.0	4700.3
22.5°	4788.5	4775.7	4669.8	4433.8	4244.4	4119.1	4176.9	4393.6	4738.8	4828.7
25°	5517.3	5499.7	5344.0	5022.9	4729.1	4419.3	4382.4	4559.0	4884.9	4968.3
27.5°	6368.1	6353.7	6185.1	5761.3	5337.5	4830.3	4637.6	4753.2	5037.4	5132.1
30°	7283.1	7324.9	7026.3	6570.4	6034.2	5366.4	4981.2	4992.4	5234.8	5319.9
32.5°	8358.7	8430.9	8071.3	7493.4	6761.4	5949.2	5414.6	5326.3	5522.2	5592.8
35°	9424.6	9506.4	9207.9	8569.0	7726.2	6636.2	5867.3	5710.0	5904.2	5981.3
37.5°	10346.0	10455.2	10301.1	9745.6	8758.4	7464.5	6458.0	6161.1	6374.6	6470.9
40°	11073.2	11240.1	11228.9	10882.2	9975.2	8469.4	7207.7	6718.1	6958.9	7063.2
42.5°	11663.9	11808.4	11933.6	11916.0	11245.0	9610.8	8089.0	7442.1	7625.1	7745.5
45°	12071.7	12225.8	12495.5	12786.0	12466.6	10832.4	9098.7	8300.9	8467.8	8649.2
47.5°	12436.1	12611.1	12961.0	13421.7	13503.6	12058.8	10204.7	9301.0	9453.5	9641.3
50°	12468.2	12619.1	13161.7	13815.0	14240.4	13237.1	11392.6	10423.1	10565.9	10766.6
52.5°	11692.8	11930.4	12877.5	13803.8	14579.1	14222.8	12572.5	11590.1	11750.6	11991.4
55°	9076.2	9424.6	12044.4	13373.6	14458.7	14860.0	13694.6	12831.0	13036.5	13288.5
57.5°	7817.7	7970.2	9561.0	12590.2	13909.7	15025.4	14641.7	14084.7	14415.4	14691.5
60°	7026.3	7153.1	8093.8	11371.8	13187.3	14763.7	15373.7	15253.3	15824.8	16153.9
62.5°	6178.7	6299.1	7154.7	9495.2	12262.7	14328.7	15836.1	16332.1	17269.6	17629.1
65°	5337.5	5440.3	6260.6	7978.2	11087.6	13893.7	16075.2	17264.8	18606.8	18979.2
67.5°	4400.1	4485.1	5260.5	6730.9	9659.0	13298.1	16194.0	17998.4	19770.6	20090.0
70°	3175.2	3241.1	4042.1	5323.1	7865.9	12273.9	16145.9	18518.5	20374.2	20629.4
72.5°	1500.9	1560.3	2501.0	3456.2	5555.9	10280.2	15171.5	18105.9	19761.0	19634.1
75°	801.0	852.4	1436.7	1895.8	2934.4	7047.2	12415.2	15596.9	16593.7	15977.3
77.5°	542.6	582.7	889.3	1138.1	1340.4	3345.4	7979.8	10798.7	10389.4	9371.6
80°	430.2	472.0	728.8	770.5	648.5	1208.8	3297.2	4998.8	3591.0	2871.8
82.5°	330.7	377.2	613.2	558.6	353.2	496.0	960.0	1581.2	919.8	699.9
85°	202.3	252.0	481.6	356.4	199.1	226.3	325.9	439.8	280.9	234.4
87.5°	102.7	144.5	244.0	130.0	89.9	53.0	86.7	86.7	73.8	64.2
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°
4372.8	0°	4372.8	4372.8	4372.8	4372.8	4372.8	4372.8	4372.8	4372.8	4372.8	4372.8
4350.3	2.5°	4388.8	4420.9	4475.5	4526.9	4567.0	4605.5	4644.1	4664.9	4671.4	4697.0
4374.4	5°	4440.2	4499.6	4605.5	4705.1	4767.7	4806.2	4833.5	4849.5	4852.8	4860.8
4440.2	7.5°	4534.9	4629.6	4777.3	4876.8	4923.4	4920.2	4908.9	4868.8	4852.8	4838.3
4536.5	10°	4668.1	4793.4	4974.8	5043.8	5014.9	4937.8	4838.3	4721.1	4666.5	4613.6
4668.1	12.5°	4833.5	4992.4	5170.6	5167.4	5024.5	4827.1	4595.9	4416.1	4302.1	4220.3
4830.3	15°	5034.1	5217.1	5353.6	5244.4	4931.4	4576.6	4237.9	4003.6	3900.8	3810.9
4994.0	17.5°	5241.2	5437.1	5499.7	5220.4	4697.0	4205.8	3822.2	3637.6	3536.4	3488.3
5170.6	20°	5443.5	5637.7	5586.4	5082.3	4340.7	3785.2	3443.3	3342.2	3321.3	3332.6
5342.4	22.5°	5657.0	5830.4	5604.0	4815.8	3886.4	3355.0	3167.2	3170.4	3217.0	3250.7
5522.2	25°	5875.3	5992.5	5557.5	4430.6	3398.4	3038.8	2992.2	3043.6	3135.1	3200.9
5724.4	27.5°	6085.6	6137.0	5456.3	3953.8	2979.4	2812.4	2820.5	2926.4	3064.5	3156.0
5970.0	30°	6323.2	6265.4	5262.1	3417.6	2688.8	2618.2	2685.6	2809.2	2947.3	3029.2
6279.8	32.5°	6591.3	6376.2	4953.9	2921.6	2483.4	2462.5	2573.3	2653.5	2714.5	2738.6
6690.8	35°	6925.2	6531.9	4559.0	2573.3	2298.8	2348.5	2454.5	2414.3	2390.3	2377.4
7243.0	37.5°	7358.6	6742.2	4096.7	2346.9	2149.5	2266.7	2310.0	2184.8	2090.1	2043.5
7912.4	40°	7880.3	7050.4	3652.0	2171.9	2054.8	2196.0	2120.6	1969.7	1849.3	1783.5
8665.3	42.5°	8459.8	7373.0	3278.0	2040.3	2001.8	2138.2	1980.9	1801.1	1606.9	1586.0
9562.6	45°	9068.2	7705.3	3022.7	1939.2	1976.1	2088.5	1900.6	1610.1	1472.0	1557.1
10463.2	47.5°	9676.6	8010.3	2868.6	1863.7	1963.3	2032.3	1830.0	1504.1	1406.2	1529.8
11428.0	50°	10354.0	8283.2	2799.6	1809.1	1948.8	2009.8	1724.1	1476.9	1337.2	1419.1
12426.4	52.5°	11026.6	8495.1	2748.2	1754.6	1927.9	1992.1	1672.7	1444.7	1253.7	1258.5
13431.4	55°	11697.7	8633.2	2692.0	1682.3	1881.4	1953.6	1667.9	1409.4	1191.1	1168.6
14494.0	57.5°	12413.6	8711.8	2623.0	1602.1	1801.1	1855.7	1663.1	1382.1	1171.9	1134.9
15580.8	60°	13142.4	8827.4	2533.1	1504.1	1693.6	1738.5	1651.8	1372.5	1160.6	1098.0
16605.0	62.5°	13795.7	8867.5	2425.6	1411.0	1555.5	1622.9	1627.8	1364.5	1130.1	1022.6
17455.8	65°	14224.4	8694.2	2237.8	1305.1	1406.2	1504.1	1581.2	1337.2	1075.5	968.0
17876.4	67.5°	14206.7	8199.8	1944.0	1168.6	1261.7	1372.5	1513.8	1290.6	1009.7	900.6
17558.5	70°	13545.3	7223.7	1571.6	1009.7	1102.8	1231.2	1427.1	1221.6	931.1	826.7
15612.9	72.5°	11617.4	5653.8	1141.4	823.5	918.2	1085.2	1314.7	1138.1	850.8	760.9
11538.7	75°	8299.3	3578.2	773.7	632.5	714.3	919.8	1175.1	1040.2	777.0	764.1
5779.0	77.5°	4239.5	1709.6	512.1	462.3	497.6	725.6	987.2	929.5	788.2	630.9
1643.8	80°	1378.9	630.9	322.7	314.6	330.7	483.2	764.1	762.5	597.2	428.6
398.1	82.5°	439.8	271.3	210.3	202.3	194.2	303.4	533.0	603.6	402.9	271.3
142.9	85°	175.0	162.1	123.6	114.0	81.9	142.9	279.3	401.3	300.2	195.8
36.9	87.5°	64.2	64.2	33.7	24.1	17.7	48.2	75.4	120.4	171.8	101.1
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>
4372.8
4711.5
4873.6
4841.5
4597.5
4201.0
3801.3
3502.7
3327.7
3258.7
3218.6
3178.4
3048.4
2751.4
2390.3
2054.8
1788.3
1606.9
1602.1
1587.6
1480.1
1292.2
1184.7
1139.7
1102.8
1022.6
968.0
905.4
836.3
756.1
720.8
561.8
378.8
269.7
200.7
99.5
0.0

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