

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: P941295

Luminaire Tested: **GALN-SB4D-735-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941295  
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-SB4D-735-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40410 lumens  
Efficiency: N/A  
Efficacy: 137.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4

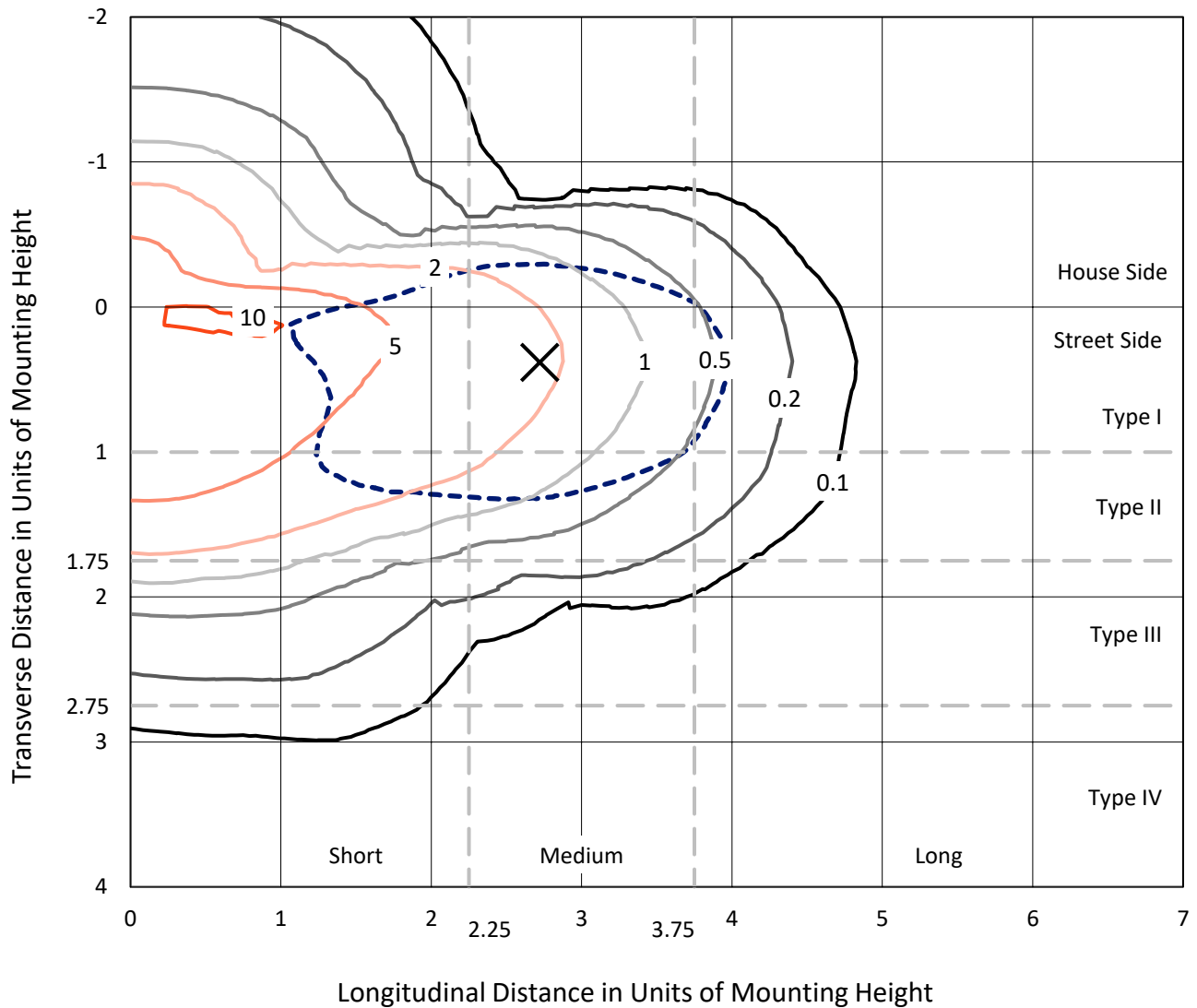
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

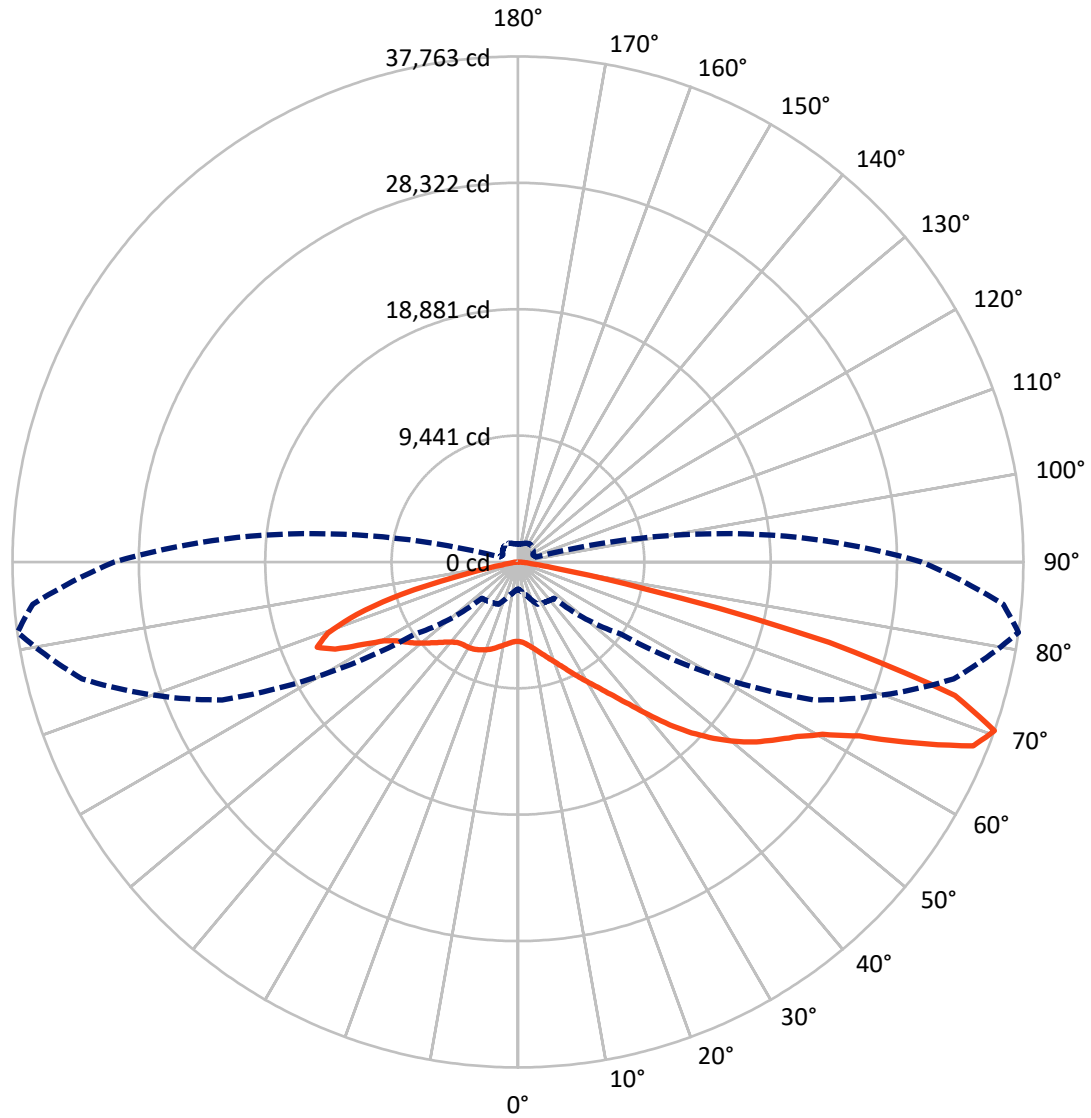
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type 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
<b>House Side</b>	Lumens	9962.1	0.0	9962.1
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	30447.9	0.0	30447.9
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	40410.0	0.0	40410.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	559.4	1.4
10°-20°	1607.2	4.0
20°-30°	2688.6	6.7
30°-40°	4200.3	10.4
40°-50°	6689.5	16.6
50°-60°	9309.2	23.0
60°-70°	9737.9	24.1
70°-80°	5089.5	12.6
80°-90°	528.5	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°	40410.0	100.0
0°-180°	40410.0	100.0

**Coefficient of Utilization**

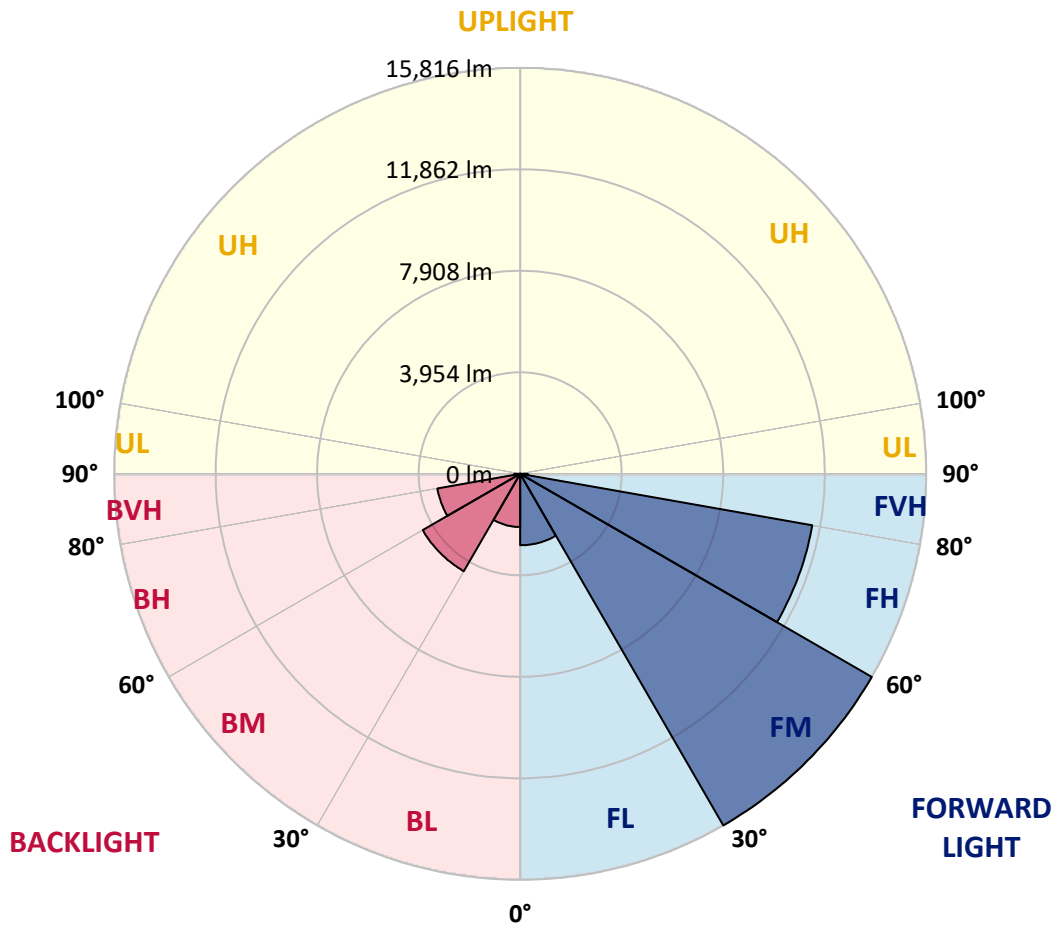


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2782.7	6.9			
FM (30°-60°)	15816.1	39.1			
FH (60°-80°)	11553.3	28.6			G4/12000
FVH (80°-90°)	295.9	0.7			G3/500
BL (0°-30°)	2072.5	5.1	B3/2500		
BM (30°-60°)	4382.9	10.8	B3/5000		
BH (60°-80°)	3274.0	8.1	B4/5000		G4/5000
BVH (80°-90°)	232.6	0.6			G3/500
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°	5924.6	5924.6	5924.6	5924.6	5924.6	5924.6	5924.6	5924.6	5924.6	5924.6
2.5°	6066.1	6100.4	6089.7	6079.0	6079.0	6064.0	6061.8	6040.4	6023.2	5995.4
5°	6143.3	6179.8	6175.5	6184.1	6211.9	6218.4	6224.8	6211.9	6177.6	6143.3
7.5°	6074.7	6115.5	6128.3	6179.8	6265.5	6342.7	6400.6	6424.2	6392.1	6342.7
10°	5843.1	5888.2	5933.2	6055.4	6207.7	6389.9	6544.3	6636.5	6630.1	6582.9
12.5°	5373.5	5420.7	5517.2	5755.2	6034.0	6355.6	6642.9	6835.9	6902.4	6868.1
15°	4998.3	5039.0	5111.9	5356.4	5718.8	6207.7	6679.4	7054.6	7224.0	7204.7
17.5°	4987.6	5004.7	5049.8	5165.5	5444.3	5976.1	6640.8	7269.1	7592.9	7590.7
20°	5176.3	5182.7	5208.4	5232.0	5390.7	5800.2	6542.2	7447.0	8006.7	8006.7
22.5°	5437.9	5433.6	5459.3	5437.9	5515.1	5785.2	6480.0	7603.6	8467.7	8502.0
25°	5830.3	5808.8	5802.4	5753.1	5768.1	5924.6	6548.6	7781.5	9014.5	9085.3
27.5°	6353.5	6319.2	6295.6	6181.9	6143.3	6211.9	6758.7	7996.0	9623.5	9745.7
30°	7035.3	6973.2	6938.8	6741.6	6602.2	6612.9	7076.1	8281.2	10260.3	10457.6
32.5°	7966.0	7869.5	7777.3	7453.5	7198.3	7114.7	7485.6	8675.7	10950.8	11266.0
35°	9008.1	8930.9	8832.2	8332.6	7940.2	7747.2	8038.9	9226.8	11759.2	12258.8
37.5°	10011.6	9945.1	9992.3	9319.0	8812.9	8532.0	8763.6	9966.6	12756.2	13493.9
40°	11049.4	10997.9	11004.4	10361.1	9771.4	9456.2	9642.8	10895.0	13899.1	14962.7
42.5°	12177.3	12138.7	12010.0	11439.7	10777.1	10483.3	10654.9	11967.2	15125.7	16635.2
45°	13440.3	13416.7	13296.6	12642.6	11883.5	11553.3	11784.9	13150.8	16358.6	18209.1
47.5°	14531.7	14551.0	14536.0	13984.9	13198.0	12713.4	12990.0	14385.9	17505.8	19688.7
50°	15057.0	15157.8	15305.8	15134.2	14645.3	14152.2	14205.8	15578.1	18599.4	21076.0
52.5°	14782.6	14973.4	15376.5	15651.0	15839.7	15736.8	15593.1	16761.7	19628.6	22328.3
55°	13759.8	14027.8	14696.8	15359.4	16322.2	17070.5	17259.2	18074.0	20632.1	23430.4
57.5°	11896.4	12331.7	12932.1	14272.2	15893.3	17715.9	19201.9	19894.5	21695.7	24607.6
60°	8701.4	9284.7	10030.9	12025.1	14392.3	17370.7	20855.1	22690.6	23207.4	26132.2
62.5°	5568.7	5928.9	6615.1	8493.4	11214.5	15601.7	21361.2	26185.8	25769.8	28632.4
65°	3812.5	4044.1	4672.4	5727.3	7249.8	11613.4	20006.0	28806.1	29839.6	32595.0
67.5°	2770.4	2946.2	3482.3	4406.5	4723.8	6872.4	15524.5	28686.0	33795.8	36677.7
70°	2019.9	2144.3	2594.6	3482.3	3634.5	3823.2	9404.8	24384.6	33710.0	37762.7
72.5°	1496.7	1582.5	1884.8	2701.8	2941.9	2581.7	4655.2	17722.4	28966.9	34156.0
75°	1082.9	1147.2	1370.2	2067.1	2354.4	1966.3	2322.2	10356.8	20205.4	24026.5
77.5°	827.7	877.0	1022.8	1513.9	1884.8	1475.3	1440.9	4764.6	9580.6	9627.8
80°	664.7	696.9	776.2	1065.7	1445.2	1104.3	939.2	1923.4	3027.7	2562.4
82.5°	488.9	542.5	656.1	748.3	1033.5	761.2	572.5	971.4	1151.5	990.7
85°	278.8	315.2	396.7	536.1	660.4	465.3	328.1	431.0	536.1	439.6
87.5°	98.6	128.7	139.4	210.1	287.3	193.0	126.5	124.4	175.8	130.8
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°
5924.6	0°	5924.6	5924.6	5924.6	5924.6	5924.6	5924.6	5924.6	5924.6	5924.6	5924.6
5988.9	2.5°	5967.5	5956.8	5913.9	5856.0	5796.0	5738.1	5718.8	5678.0	5650.1	5635.1
6128.3	5°	6087.6	6053.3	5952.5	5823.8	5688.7	5542.9	5440.0	5345.7	5277.0	5212.7
6319.2	7.5°	6259.1	6199.1	6025.4	5800.2	5560.1	5317.8	5137.7	5000.4	4908.2	4848.2
6542.2	10°	6458.5	6366.3	6100.4	5763.8	5392.8	5045.5	4833.2	4715.2	4657.3	4625.2
6797.3	12.5°	6688.0	6557.2	6177.6	5680.2	5137.7	4741.0	4595.2	4560.9	4563.0	4565.1
7119.0	15°	6971.0	6788.8	6239.8	5497.9	4805.3	4507.3	4481.5	4537.3	4595.2	4623.0
7483.5	17.5°	7290.5	7033.2	6250.5	5197.7	4479.4	4357.2	4438.6	4558.7	4646.6	4685.2
7890.9	20°	7633.6	7281.9	6173.3	4773.1	4211.3	4234.9	4380.7	4535.1	4631.6	4680.9
8356.2	22.5°	8026.0	7547.8	5988.9	4327.1	3992.6	4102.0	4273.5	4423.6	4524.4	4573.7
8903.0	25°	8474.1	7845.9	5699.5	3951.9	3803.9	3951.9	4123.4	4247.8	4329.3	4374.3
9514.1	27.5°	8971.6	8156.8	5313.5	3653.8	3638.8	3797.5	3939.0	4035.5	4078.4	4112.7
10163.8	30°	9471.2	8439.8	4846.0	3428.7	3495.2	3645.3	3746.0	3788.9	3801.8	3808.2
10888.6	32.5°	10011.6	8684.3	4355.0	3242.1	3357.9	3497.3	3557.3	3576.6	3516.6	3475.9
11767.7	35°	10665.6	8945.9	3874.7	3094.2	3222.8	3342.9	3362.2	3345.1	3274.3	3190.7
12869.9	37.5°	11474.0	9271.8	3490.9	2989.1	3096.3	3175.7	3152.1	3147.8	3154.2	3055.6
14195.1	40°	12464.6	9696.4	3210.0	2907.6	2993.4	3010.6	2944.1	2980.5	3012.7	2862.6
15648.9	42.5°	13564.6	10208.9	3032.0	2851.9	2907.6	2866.9	2764.0	2804.7	2800.4	2603.1
17109.1	45°	14686.1	10766.4	2969.8	2811.1	2828.3	2746.8	2633.2	2643.9	2553.8	2375.8
18509.3	47.5°	15801.1	11364.6	3008.4	2776.8	2729.7	2637.4	2549.5	2502.4	2369.4	2236.5
19851.6	50°	16894.7	11992.9	3149.9	2708.2	2594.6	2541.0	2476.6	2393.0	2251.5	2137.8
21121.0	52.5°	17908.9	12625.4	3308.6	2594.6	2425.2	2457.3	2416.6	2320.1	2180.7	2064.9
22321.8	55°	18869.6	13258.0	3370.8	2438.0	2266.5	2384.4	2360.8	2182.9	2015.6	1921.3
23578.4	57.5°	19916.0	14019.2	3302.2	2238.6	2137.8	2300.8	2210.7	2013.5	1917.0	1846.2
25214.4	60°	21365.5	15213.6	3154.2	1992.0	2015.6	2176.4	2022.0	1940.6	1835.5	1756.2
27667.5	62.5°	23773.5	17441.5	2916.2	1747.6	1871.9	1992.0	1932.0	1850.5	1743.3	1666.1
31861.7	65°	27333.0	20537.8	2468.1	1556.7	1711.1	1811.9	1835.5	1754.0	1642.5	1561.0
35536.9	67.5°	30335.0	22480.5	1867.7	1398.1	1546.0	1666.1	1732.6	1653.2	1535.3	1456.0
36396.8	70°	30169.8	21069.6	1425.9	1241.5	1400.2	1522.4	1608.2	1546.0	1419.5	1344.5
33060.3	72.5°	26796.9	17625.9	1153.6	1082.9	1252.3	1372.3	1475.3	1428.1	1299.4	1226.5
24219.5	75°	19686.5	12511.8	922.0	922.0	1067.8	1215.8	1329.4	1299.4	1181.5	1130.0
10168.1	77.5°	8298.3	5249.2	722.6	765.5	887.7	1044.3	1185.8	1196.5	1093.6	1157.9
2688.9	80°	2206.5	1447.4	551.1	602.5	696.9	862.0	1031.4	1027.1	915.6	855.6
999.2	82.5°	840.6	570.4	392.4	424.6	503.9	660.4	817.0	842.7	731.2	632.6
392.4	85°	323.8	244.4	242.3	255.2	293.8	437.4	617.5	639.0	551.1	467.5
109.4	87.5°	83.6	72.9	90.1	85.8	135.1	233.7	353.8	366.7	336.7	195.1
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>
5924.6
5652.3
5238.4
4861.1
4633.8
4569.4
4620.9
4693.8
4693.8
4586.6
4387.2
4125.6
3823.2
3488.7
3195.0
3062.0
2866.9
2601.0
2382.3
2236.5
2129.3
2067.1
1912.7
1839.8
1751.9
1666.1
1565.3
1458.1
1350.9
1226.5
1115.0
1050.7
795.5
632.6
482.5
278.8
0.0

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