

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: P949899

Luminaire Tested: **GALN-SB4C-735-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949899  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4C-735-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

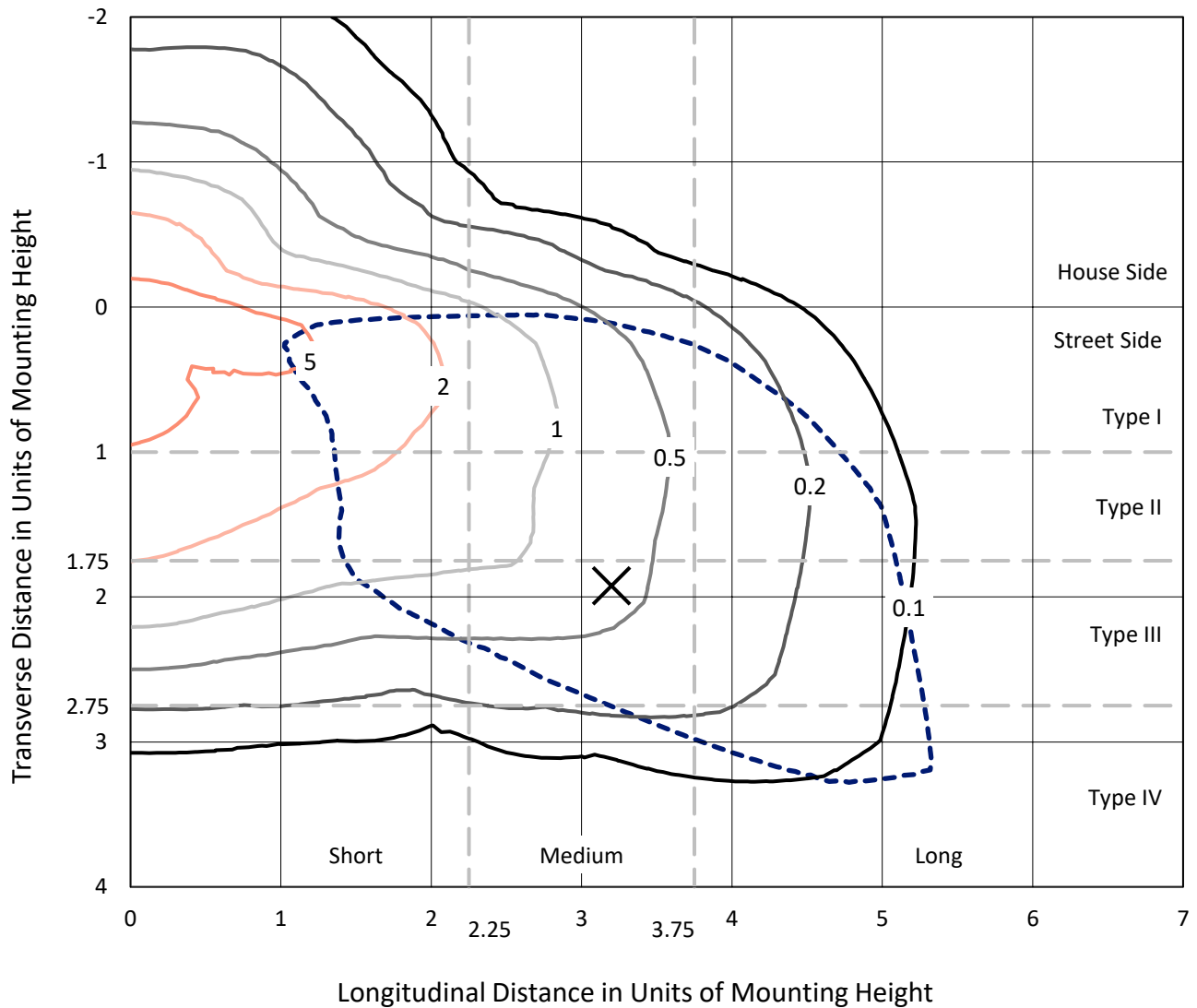
Lumens per Lamp: N/A  
Luminaire Lumens: 29334 lumens  
Efficiency: N/A  
Efficacy: 146.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

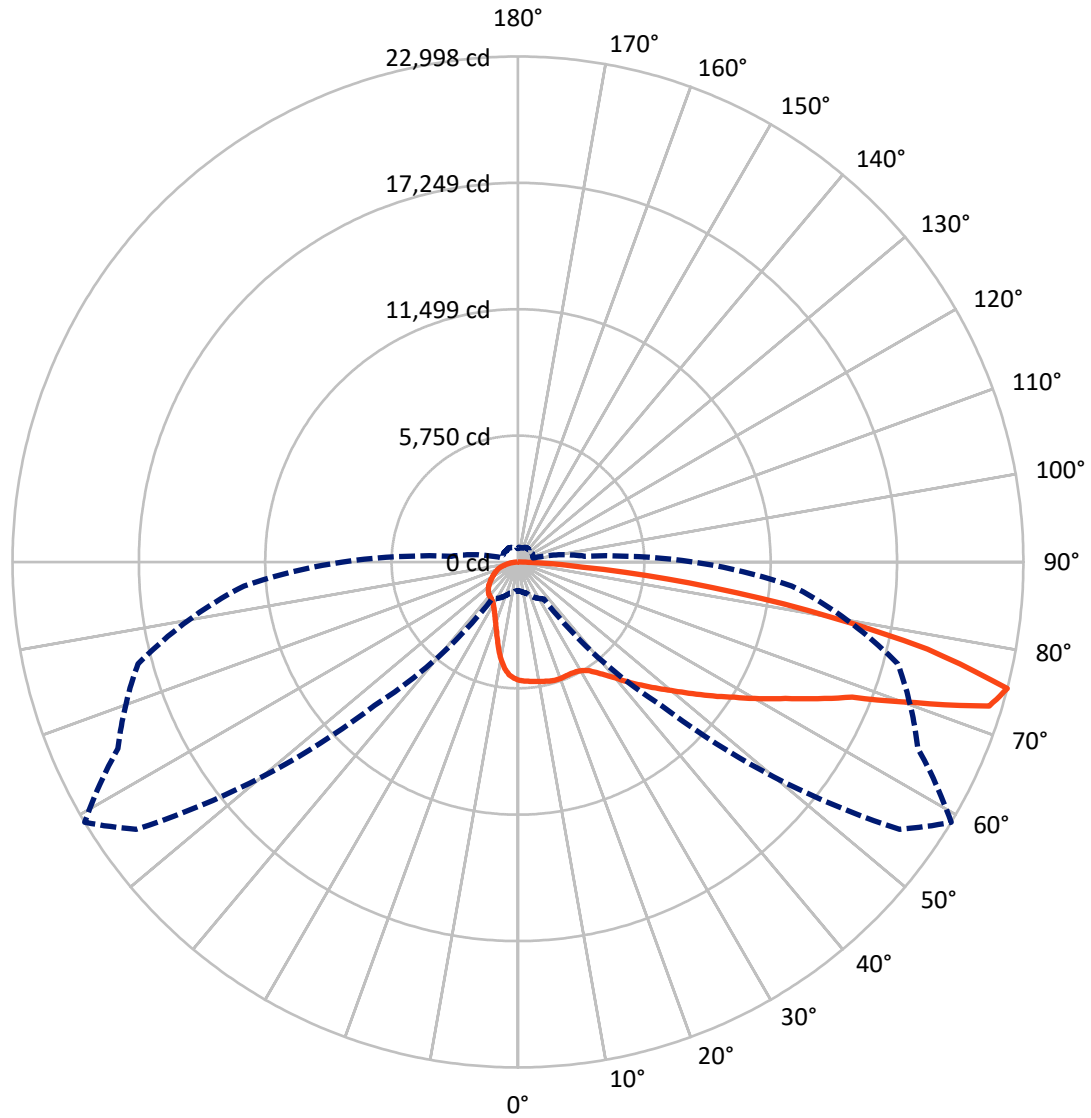
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5501.8	0.0	5501.8
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	23832.2	0.0	23832.2
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	29334.0	0.0	29334.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	482.8	1.6
10°-20°	1234.0	4.2
20°-30°	1874.4	6.4
30°-40°	2786.2	9.5
40°-50°	4143.6	14.1
50°-60°	5624.4	19.2
60°-70°	6866.5	23.4
70°-80°	5388.7	18.4
80°-90°	933.5	3.2
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°	29334.0	100.0
0°-180°	29334.0	100.0

**Coefficient of Utilization**



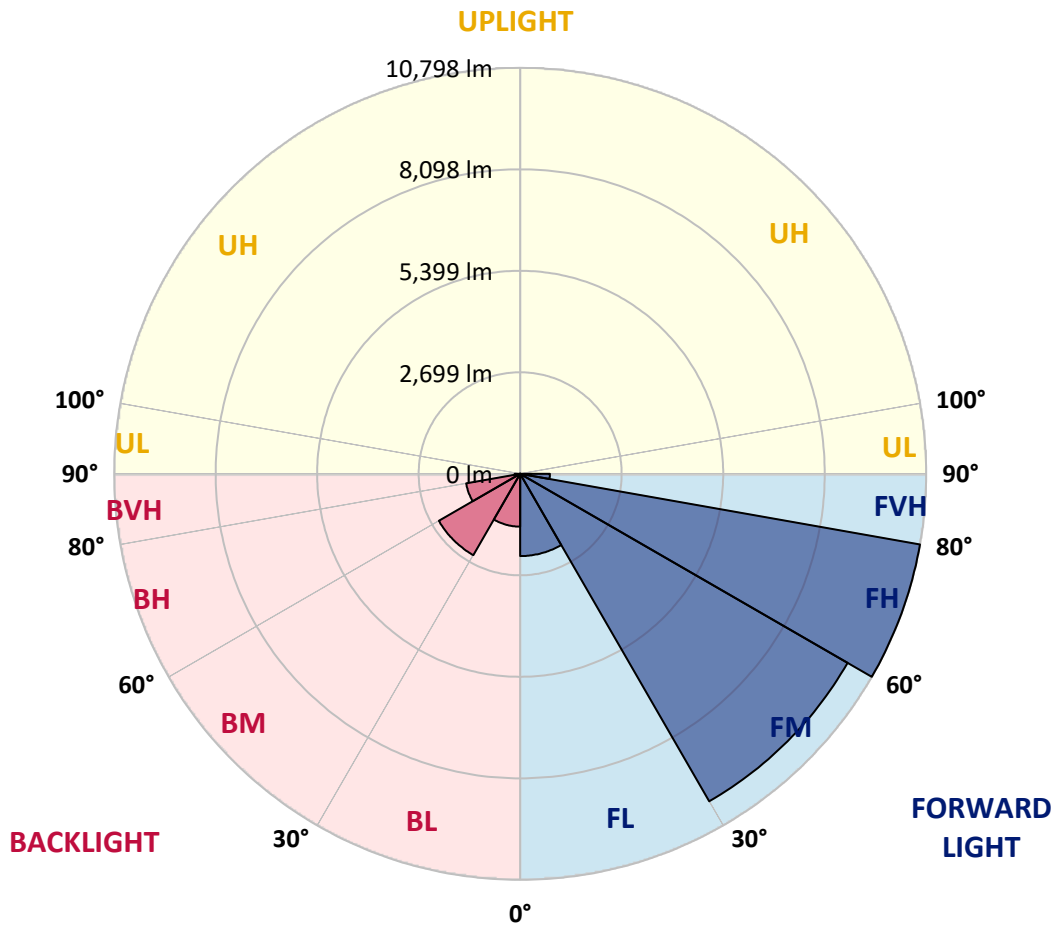
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2187.2	7.5			
FM (30°-60°)	10056.9	34.3			
FH (60°-80°)	10797.6	36.8			G4/12000
FVH (80°-90°)	790.6	2.7			G5
BL (0°-30°)	1404.0	4.8	B3/2500		
BM (30°-60°)	2497.3	8.5	B2/2500		
BH (60°-80°)	1457.6	5.0	B3/2500		G3/2500
BVH (80°-90°)	142.9	0.5			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 IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2
2.5°	5430.0	5411.0	5430.0	5422.1	5418.9	5412.6	5414.2	5425.2	5418.9	5426.8
5°	5393.7	5382.6	5401.5	5396.8	5417.3	5420.5	5441.0	5453.6	5461.5	5463.1
7.5°	5333.7	5322.6	5349.5	5371.6	5415.8	5428.4	5471.0	5491.5	5502.5	5521.5
10°	5114.3	5109.6	5175.9	5259.5	5363.7	5428.4	5493.1	5527.8	5545.1	5595.6
12.5°	4726.2	4732.5	4819.3	4980.2	5188.5	5396.8	5518.3	5568.8	5595.6	5658.8
15°	4355.3	4353.7	4448.4	4620.4	4912.4	5257.9	5530.9	5617.7	5663.5	5756.6
17.5°	4140.7	4134.4	4200.7	4331.7	4603.1	5044.9	5499.4	5644.6	5742.4	5859.2
20°	4101.3	4088.6	4123.4	4188.1	4380.6	4811.4	5417.3	5644.6	5805.5	5957.0
22.5°	4244.9	4224.3	4210.1	4202.3	4287.5	4618.9	5324.2	5625.6	5898.6	6097.5
25°	4533.6	4502.1	4429.5	4358.5	4333.2	4532.1	5242.2	5620.9	6037.5	6286.8
27.5°	5000.7	4961.3	4814.5	4644.1	4491.0	4576.2	5205.9	5649.3	6190.6	6487.2
30°	5579.9	5537.3	5352.6	5090.7	4816.1	4740.4	5251.6	5732.9	6386.2	6753.9
32.5°	6099.0	6051.7	5893.9	5627.2	5256.4	5024.4	5396.8	5892.3	6693.9	7124.7
35°	6559.8	6504.6	6362.6	6116.4	5796.1	5423.6	5658.8	6174.8	7131.1	7727.5
37.5°	7011.1	6946.4	6791.8	6531.4	6307.3	5955.4	6020.1	6537.7	7711.8	8459.7
40°	7516.1	7423.0	7235.2	6978.0	6760.2	6578.7	6495.1	6982.7	8301.9	9277.2
42.5°	8005.3	7916.9	7692.8	7473.5	7200.5	7148.4	7045.8	7503.5	8947.4	10175.0
45°	8532.3	8426.6	8155.2	7877.5	7705.5	7527.1	7579.2	8024.2	9580.1	11090.3
47.5°	9026.3	8907.9	8587.6	8278.3	8183.6	7845.9	8068.4	8597.0	10238.2	12018.2
50°	9292.9	9176.2	8909.5	8630.2	8556.0	8238.8	8598.6	9226.7	10927.8	12942.9
52.5°	9515.4	9389.2	9040.5	8885.8	8863.7	8666.5	9251.9	9946.2	11617.4	13760.3
55°	9752.1	9611.7	9166.7	9027.8	9128.8	9146.2	10026.7	10762.1	12346.4	14557.2
57.5°	10025.1	9846.8	9288.2	9147.8	9387.6	9708.0	10916.7	11607.9	13062.8	15295.7
60°	10282.4	10102.5	9521.7	9338.7	9666.9	10359.7	11937.7	12632.0	13873.9	15953.7
62.5°	10332.8	10184.5	9708.0	9706.4	10045.6	11120.3	13146.5	13665.6	14582.4	16603.9
65°	9458.6	9365.5	9083.1	9692.2	10588.5	12215.4	14492.5	14988.0	15483.5	17172.0
67.5°	7198.9	7211.5	7191.0	8366.6	10149.8	13788.7	16441.3	16403.5	16596.0	17809.5
70°	3291.7	3365.9	3848.8	5775.5	8131.5	13970.2	19663.7	19172.9	17992.5	18634.8
72.5°	1778.4	1835.2	2032.5	2797.8	4888.7	12420.6	22071.7	22420.5	19849.9	19190.3
75°	1305.0	1336.6	1473.9	1778.4	2053.0	9231.4	21208.5	22998.0	20081.8	17894.7
77.5°	976.8	991.0	1103.0	1409.2	1051.0	4866.6	16946.3	19046.7	17190.9	14702.4
80°	708.5	724.3	807.9	1057.3	736.9	1780.0	11636.3	13369.0	11773.6	9371.8
82.5°	489.2	495.5	531.8	719.6	514.4	691.2	6602.4	7839.6	6572.4	3288.6
85°	295.1	303.0	318.8	419.8	291.9	328.2	2849.9	2947.7	1964.6	785.9
87.5°	121.5	129.4	142.0	176.7	115.2	91.5	470.2	590.2	367.7	230.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949899  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5384.2	0°	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2
5400.0	2.5°	5392.1	5381.0	5351.1	5310.0	5272.2	5224.8	5204.3	5186.9	5171.2	5141.2
5442.6	5°	5425.2	5395.2	5314.8	5210.6	5092.3	4962.9	4836.6	4749.8	4675.7	4620.4
5491.5	7.5°	5475.7	5418.9	5272.2	5059.1	4787.7	4510.0	4259.1	4080.7	3946.6	3897.7
5560.9	10°	5527.8	5459.9	5204.3	4828.7	4360.1	3932.4	3599.5	3416.4	3309.1	3274.4
5643.0	12.5°	5589.3	5489.9	5098.6	4508.4	3881.9	3413.2	3122.9	3015.6	2960.4	2941.4
5744.0	15°	5679.3	5515.2	4939.2	4107.6	3425.9	3034.5	2846.7	2772.6	2744.2	2742.6
5848.1	17.5°	5747.1	5519.9	4691.4	3678.4	3075.6	2805.7	2651.1	2622.7	2641.6	2670.0
5950.7	20°	5822.9	5477.3	4366.4	3287.0	2829.4	2605.3	2540.6	2559.5	2605.3	2646.3
6086.4	22.5°	5876.5	5400.0	3973.4	2982.5	2616.4	2490.1	2487.0	2526.4	2551.7	2572.2
6245.8	25°	5923.9	5269.0	3556.8	2726.8	2441.2	2420.7	2455.4	2442.8	2425.4	2442.8
6405.2	27.5°	5958.6	5062.3	3184.4	2502.7	2318.1	2373.3	2352.8	2324.4	2322.8	2332.3
6593.0	30°	5947.5	4786.1	2878.3	2289.7	2231.3	2285.0	2236.0	2231.3	2226.6	2231.3
6875.4	32.5°	5947.5	4472.1	2643.2	2142.9	2176.1	2155.6	2150.8	2139.8	2120.9	2119.3
7258.9	35°	5980.7	4158.1	2441.2	2064.0	2130.3	2081.4	2084.6	2057.7	2018.3	1999.3
7767.0	37.5°	6048.5	3905.6	2240.8	2026.2	2049.8	2048.3	2035.6	1989.9	1920.4	1860.5
8401.4	40°	6212.6	3831.4	2103.5	2008.8	2012.0	2030.9	1997.8	1909.4	1751.6	1653.8
9045.2	42.5°	6469.9	3956.1	2073.5	1966.2	1986.7	2005.7	1941.0	1735.8	1623.8	1565.4
9720.6	45°	6796.5	4173.9	2138.2	1904.7	1926.8	1959.9	1767.4	1669.5	1619.0	1620.6
10389.7	47.5°	7210.0	4402.7	2258.1	1851.0	1840.0	1858.9	1652.2	1592.2	1522.8	1540.1
11031.9	50°	7688.1	4634.6	2371.8	1778.4	1743.7	1682.2	1578.0	1521.2	1432.8	1391.8
11652.1	52.5°	8205.7	4858.7	2417.5	1690.1	1639.6	1568.5	1527.5	1458.1	1350.8	1282.9
12237.5	55°	8696.4	5062.3	2367.0	1584.3	1535.4	1480.2	1473.9	1431.3	1316.1	1221.4
12758.3	57.5°	9160.4	5232.7	2240.8	1477.0	1429.7	1396.5	1439.2	1418.6	1273.5	1152.0
13250.6	60°	9553.3	5349.5	2057.7	1368.1	1335.0	1317.6	1382.3	1376.0	1213.5	1077.8
13692.4	62.5°	9865.8	5395.2	1855.7	1264.0	1256.1	1224.5	1303.4	1303.4	1137.7	1005.2
14080.6	65°	10110.3	5351.1	1650.6	1161.4	1177.2	1129.9	1207.2	1197.7	1057.3	940.5
14527.2	67.5°	10326.5	5205.9	1423.4	1060.4	1096.7	1036.8	1106.2	1084.1	968.9	875.8
14913.8	70°	10422.8	4868.2	1164.6	959.4	1003.6	945.2	1005.2	964.2	869.5	806.4
14489.3	72.5°	9649.6	4046.0	916.8	853.7	891.6	844.2	896.3	849.0	762.2	733.8
12512.1	75°	7983.2	3036.1	705.4	738.5	766.9	730.6	765.3	730.6	651.7	672.2
9242.4	77.5°	5797.6	2049.8	539.7	617.0	629.6	610.7	640.7	601.2	530.2	525.5
4606.2	80°	2883.0	1200.9	422.9	487.6	482.9	470.2	505.0	486.0	426.1	451.3
1243.5	82.5°	834.8	514.4	307.7	342.4	333.0	336.1	361.4	370.8	555.5	550.7
386.6	85°	262.0	202.0	184.6	190.9	181.5	186.2	213.0	422.9	391.3	228.8
119.9	87.5°	67.9	69.4	45.8	48.9	50.5	60.0	67.9	257.2	123.1	80.5
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>
5384.2
5127.0
4574.7
3812.5
3220.7
2946.2
2748.9
2681.0
2660.5
2583.2
2453.8
2348.1
2248.7
2139.8
2018.3
1881.0
1666.4
1565.4
1628.5
1584.3
1402.9
1281.3
1221.4
1145.6
1073.1
1000.5
934.2
869.5
793.7
710.1
613.8
501.8
446.6
563.4
247.7
85.2
0.0

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