

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: P951327

Luminaire Tested: **GALN-SB5C-735-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951327  
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-SB5C-735-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

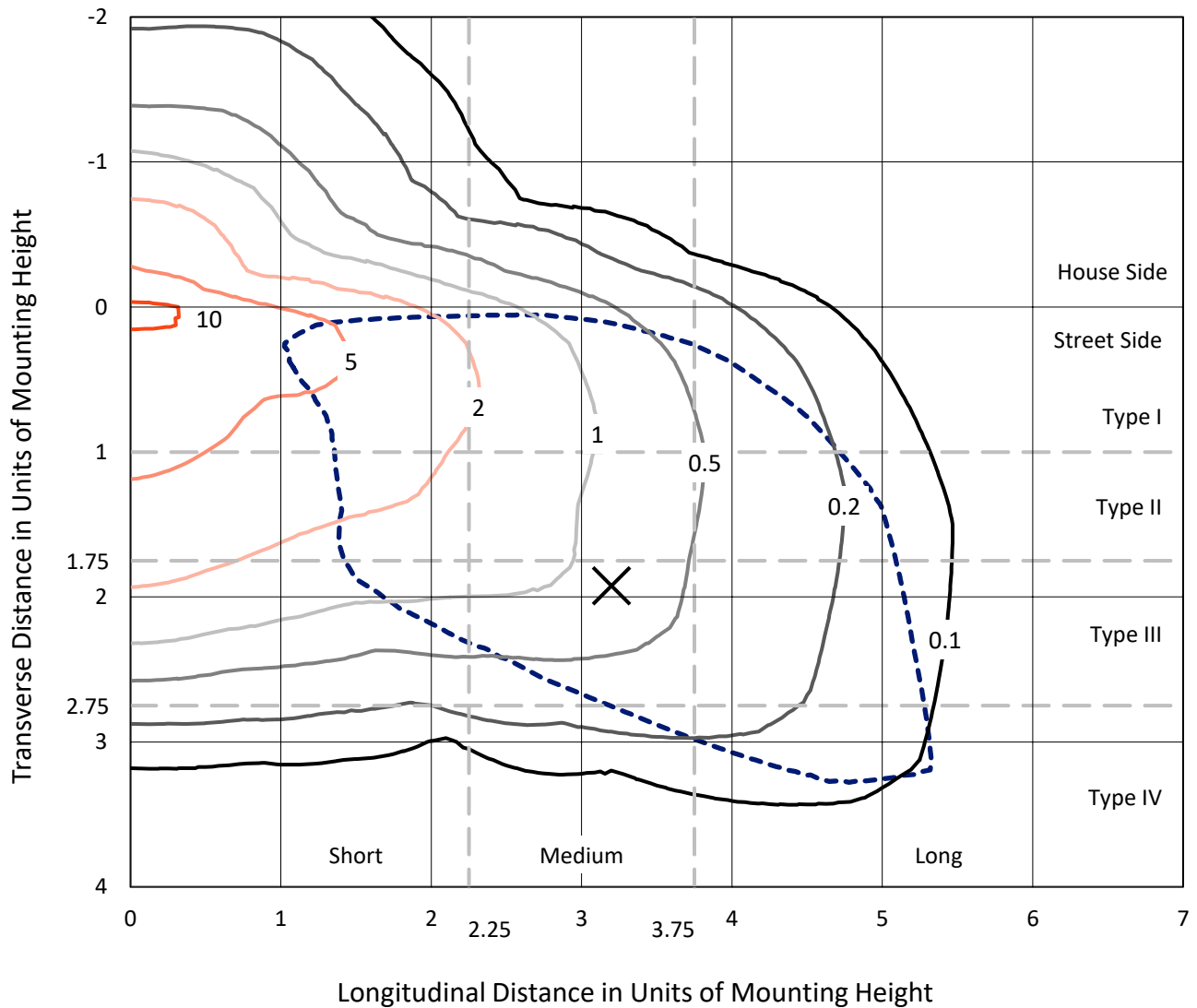
Lumens per Lamp: N/A  
Luminaire Lumens: 36973 lumens  
Efficiency: N/A  
Efficacy: 148.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

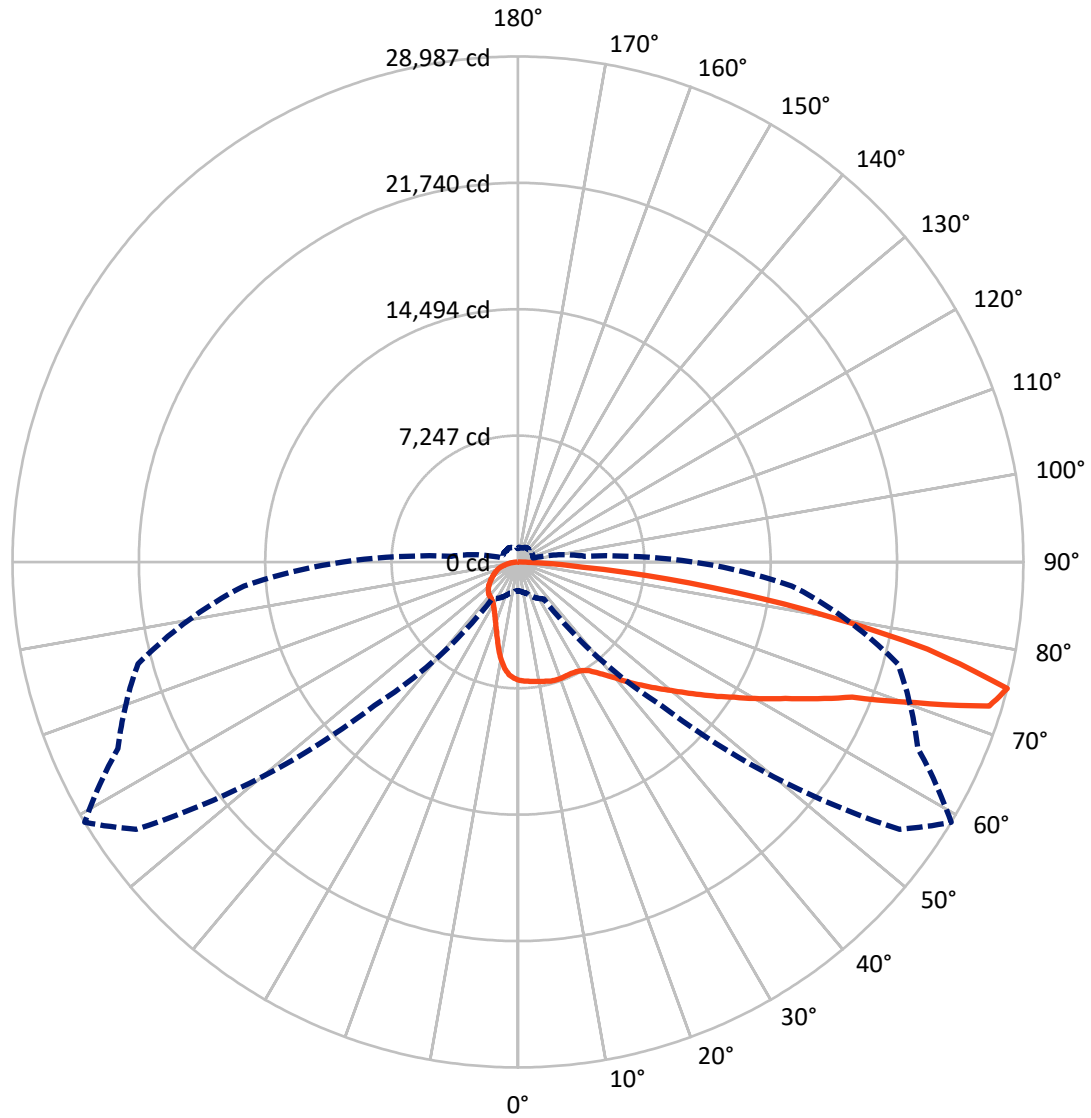
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	6934.5	0.0	6934.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	30038.5	0.0	30038.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	36973.0	0.0	36973.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	608.5	1.6
10°-20°	1555.4	4.2
20°-30°	2362.5	6.4
30°-40°	3511.8	9.5
40°-50°	5222.6	14.1
50°-60°	7089.1	19.2
60°-70°	8654.6	23.4
70°-80°	6792.0	18.4
80°-90°	1176.5	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°	36973.0	100.0
0°-180°	36973.0	100.0

**Coefficient of Utilization**



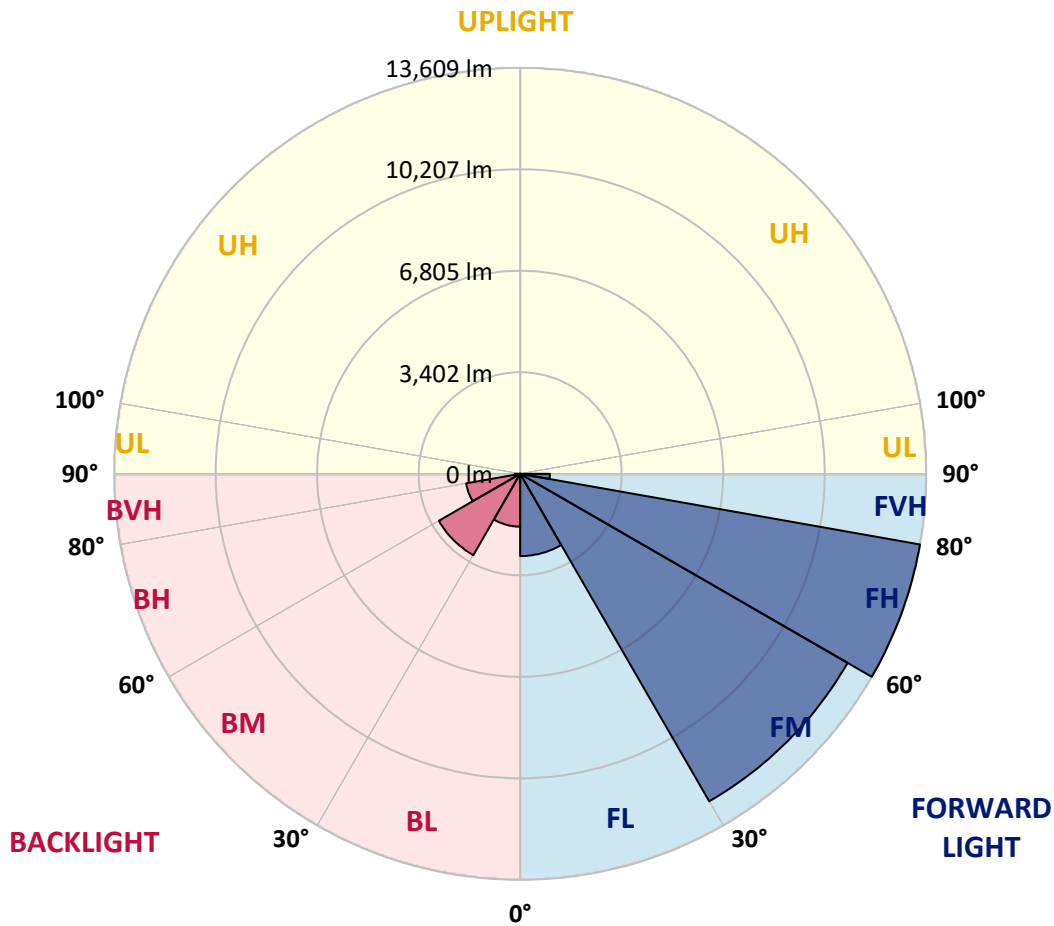
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2756.7	7.5			
FM (30°-60°)	12675.9	34.3			
FH (60°-80°)	13609.4	36.8			G5
FVH (80°-90°)	996.4	2.7			G5
BL (0°-30°)	1769.6	4.8	B3/2500		
BM (30°-60°)	3147.6	8.5	B3/5000		
BH (60°-80°)	1837.2	5.0	B3/2500		G3/2500
BVH (80°-90°)	180.1	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°	6786.3	6786.3	6786.3	6786.3	6786.3	6786.3	6786.3	6786.3	6786.3	6786.3
2.5°	6844.0	6820.1	6844.0	6834.0	6830.1	6822.1	6824.1	6838.0	6830.1	6840.0
5°	6798.2	6784.3	6808.2	6802.2	6828.1	6832.1	6857.9	6873.8	6883.8	6885.8
7.5°	6722.7	6708.7	6742.6	6770.4	6826.1	6842.0	6895.7	6921.6	6935.5	6959.4
10°	6446.2	6440.2	6523.8	6629.2	6760.5	6842.0	6923.5	6967.3	6989.2	7052.8
12.5°	5956.9	5964.9	6074.3	6277.1	6539.7	6802.2	6955.4	7019.0	7052.8	7132.4
15°	5489.5	5487.5	5606.9	5823.7	6191.6	6627.2	6971.3	7080.7	7138.4	7255.7
17.5°	5219.0	5211.1	5294.6	5459.7	5801.8	6358.7	6931.5	7114.5	7237.8	7385.0
20°	5169.3	5153.4	5197.1	5278.7	5521.3	6064.3	6828.1	7114.5	7317.4	7508.3
22.5°	5350.3	5324.4	5306.5	5296.6	5404.0	5821.7	6710.7	7090.6	7434.7	7685.3
25°	5714.3	5674.5	5583.0	5493.5	5461.7	5712.3	6607.3	7084.7	7609.7	7924.0
27.5°	6303.0	6253.3	6068.3	5853.5	5660.6	5768.0	6561.6	7120.5	7802.7	8176.6
30°	7032.9	6979.2	6746.5	6416.4	6070.3	5974.8	6619.2	7225.9	8049.3	8512.7
32.5°	7687.3	7627.6	7428.7	7092.6	6625.2	6332.8	6802.2	7426.8	8437.1	8980.1
35°	8268.1	8198.5	8019.5	7709.2	7305.4	6836.0	7132.4	7782.8	8988.1	9739.9
37.5°	8836.9	8755.4	8560.5	8232.3	7949.8	7506.3	7587.9	8240.2	9720.0	10662.8
40°	9473.4	9356.0	9119.4	8795.2	8520.7	8292.0	8186.5	8801.1	10463.9	11693.1
42.5°	10090.0	9978.6	9696.2	9419.7	9075.6	9010.0	8880.7	9457.5	11277.4	12824.8
45°	10754.3	10621.0	10278.9	9928.9	9712.1	9487.3	9552.9	10113.8	12074.9	13978.4
47.5°	11376.8	11227.6	10823.9	10434.1	10314.7	9889.1	10169.5	10835.8	12904.3	15147.9
50°	11713.0	11565.8	11229.6	10877.6	10784.1	10384.3	10837.8	11629.4	13773.5	16313.4
52.5°	11993.4	11834.3	11394.7	11199.8	11172.0	10923.3	11661.2	12536.4	14642.7	17343.7
55°	12291.7	12114.7	11553.8	11378.8	11506.1	11528.0	12637.8	13564.7	15561.6	18348.1
57.5°	12635.8	12411.1	11707.0	11530.0	11832.3	12236.0	13759.6	14630.7	16464.6	19278.9
60°	12960.0	12733.3	12001.3	11770.6	12184.3	13057.5	15046.4	15921.6	17486.9	20108.3
62.5°	13023.7	12836.7	12236.0	12234.1	12661.7	14016.2	16570.0	17224.3	18379.9	20927.8
65°	11921.8	11804.4	11448.4	12216.2	13345.9	15396.5	18266.6	18891.1	19515.6	21643.8
67.5°	9073.6	9089.5	9063.7	10545.4	12793.0	17379.5	20722.9	20675.2	20917.8	22447.3
70°	4149.0	4242.4	4851.1	7279.6	10249.1	17608.2	24784.4	24165.8	22678.1	23487.6
72.5°	2241.6	2313.2	2561.8	3526.4	6161.8	15655.1	27819.5	28259.1	25019.1	24187.7
75°	1644.9	1684.6	1857.7	2241.6	2587.6	11635.4	26731.5	28987.0	25311.4	22554.7
77.5°	1231.2	1249.1	1390.3	1776.1	1324.6	6133.9	21359.4	24006.7	21667.7	18531.1
80°	893.0	912.9	1018.3	1332.6	928.8	2243.5	14666.5	16850.4	14839.6	11812.4
82.5°	616.6	624.5	670.3	907.0	648.4	871.2	8321.8	9881.1	8284.0	4145.0
85°	371.9	381.9	401.8	529.1	368.0	413.7	3592.1	3715.4	2476.2	990.5
87.5°	153.1	163.1	179.0	222.8	145.2	115.4	592.7	743.9	463.4	290.4
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°
6786.3	0°	6786.3	6786.3	6786.3	6786.3	6786.3	6786.3	6786.3	6786.3	6786.3	6786.3
6806.2	2.5°	6796.3	6782.3	6744.5	6692.8	6645.1	6585.4	6559.6	6537.7	6517.8	6480.0
6859.9	5°	6838.0	6800.2	6698.8	6567.5	6418.4	6255.3	6096.1	5986.8	5893.3	5823.7
6921.6	7.5°	6901.7	6830.1	6645.1	6376.6	6034.5	5684.4	5368.2	5143.4	4974.4	4912.7
7009.1	10°	6967.3	6881.8	6559.6	6086.2	5495.5	4956.5	4536.8	4306.1	4170.8	4127.1
7112.5	12.5°	7044.9	6919.6	6426.3	5682.4	4892.8	4302.1	3936.1	3800.9	3731.3	3707.4
7239.8	15°	7158.2	6951.4	6225.4	5177.2	4318.0	3824.8	3588.1	3494.6	3458.8	3456.8
7371.1	17.5°	7243.8	6957.4	5913.2	4636.3	3876.5	3536.4	3341.4	3305.6	3329.5	3365.3
7500.3	20°	7339.2	6903.7	5503.4	4143.0	3566.2	3283.8	3202.2	3226.1	3283.8	3335.5
7671.4	22.5°	7406.9	6806.2	5008.2	3759.1	3297.7	3138.6	3134.6	3184.3	3216.1	3242.0
7872.3	25°	7466.5	6641.1	4483.1	3436.9	3076.9	3051.1	3094.8	3078.9	3057.0	3078.9
8073.2	27.5°	7510.3	6380.6	4013.7	3154.5	2921.8	2991.4	2965.5	2929.7	2927.7	2939.7
8309.9	30°	7496.4	6032.5	3627.9	2886.0	2812.4	2880.0	2818.3	2812.4	2806.4	2812.4
8665.9	32.5°	7496.4	5636.7	3331.5	2701.0	2742.8	2716.9	2710.9	2697.0	2673.2	2671.2
9149.2	35°	7538.1	5240.9	3076.9	2601.6	2685.1	2623.4	2627.4	2593.6	2543.9	2520.0
9789.6	37.5°	7623.7	4922.7	2824.3	2553.8	2583.7	2581.7	2565.8	2508.1	2420.6	2345.0
10589.2	40°	7830.5	4829.2	2651.3	2531.9	2535.9	2559.8	2518.0	2406.6	2207.7	2084.4
11400.7	42.5°	8154.7	4986.3	2613.5	2478.2	2504.1	2528.0	2446.4	2187.8	2046.6	1973.0
12252.0	45°	8566.4	5260.8	2695.0	2400.7	2428.5	2470.3	2227.6	2104.3	2040.7	2042.7
13095.3	47.5°	9087.5	5549.2	2846.2	2333.0	2319.1	2343.0	2082.4	2006.9	1919.3	1941.2
13904.8	50°	9690.2	5841.6	2989.4	2241.6	2197.8	2120.2	1989.0	1917.4	1806.0	1754.3
14686.4	52.5°	10342.6	6124.0	3047.1	2130.2	2066.5	1977.0	1925.3	1837.8	1702.5	1617.0
15424.3	55°	10961.1	6380.6	2983.4	1996.9	1935.3	1865.6	1857.7	1804.0	1658.8	1539.5
16080.7	57.5°	11545.9	6595.4	2824.3	1861.7	1802.0	1760.2	1813.9	1788.1	1605.1	1451.9
16701.2	60°	12041.1	6742.6	2593.6	1724.4	1682.7	1660.8	1742.3	1734.4	1529.5	1358.5
17258.2	62.5°	12434.9	6800.2	2339.0	1593.2	1583.2	1543.4	1642.9	1642.9	1434.0	1267.0
17747.4	65°	12743.2	6744.5	2080.4	1463.9	1483.8	1424.1	1521.5	1509.6	1332.6	1185.4
18310.3	67.5°	13015.7	6561.6	1794.0	1336.6	1382.3	1306.7	1394.3	1366.4	1221.2	1103.9
18797.6	70°	13137.0	6135.9	1467.8	1209.3	1265.0	1191.4	1267.0	1215.3	1095.9	1016.4
18262.6	72.5°	12162.5	5099.7	1155.6	1076.0	1123.8	1064.1	1129.7	1070.1	960.7	924.9
15770.4	75°	10062.1	3826.7	889.1	930.8	966.6	920.9	964.6	920.9	821.4	847.3
11649.3	77.5°	7307.4	2583.7	680.2	777.7	793.6	769.7	807.5	757.8	668.3	662.3
5805.8	80°	3633.8	1513.6	533.0	614.6	608.6	592.7	636.5	612.6	537.0	568.8
1567.3	82.5°	1052.2	648.4	387.8	431.6	419.7	423.6	455.5	467.4	700.1	694.1
487.3	85°	330.2	254.6	232.7	240.7	228.7	234.7	268.5	533.0	493.3	288.4
151.2	87.5°	85.5	87.5	57.7	61.7	63.6	75.6	85.5	324.2	155.1	101.4
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>
6786.3
6462.1
5766.0
4805.3
4059.5
3713.4
3464.8
3379.2
3353.4
3255.9
3092.8
2959.6
2834.3
2697.0
2543.9
2370.8
2100.3
1973.0
2052.6
1996.9
1768.2
1615.0
1539.5
1444.0
1352.5
1261.0
1177.5
1095.9
1000.4
895.0
773.7
632.5
562.9
710.1
312.3
107.4
0.0

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