

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: P943002

Luminaire Tested: **GALN-SB7B-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943002
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-SB7B-740-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41998 lumens
Efficiency: N/A
Efficacy: 163.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

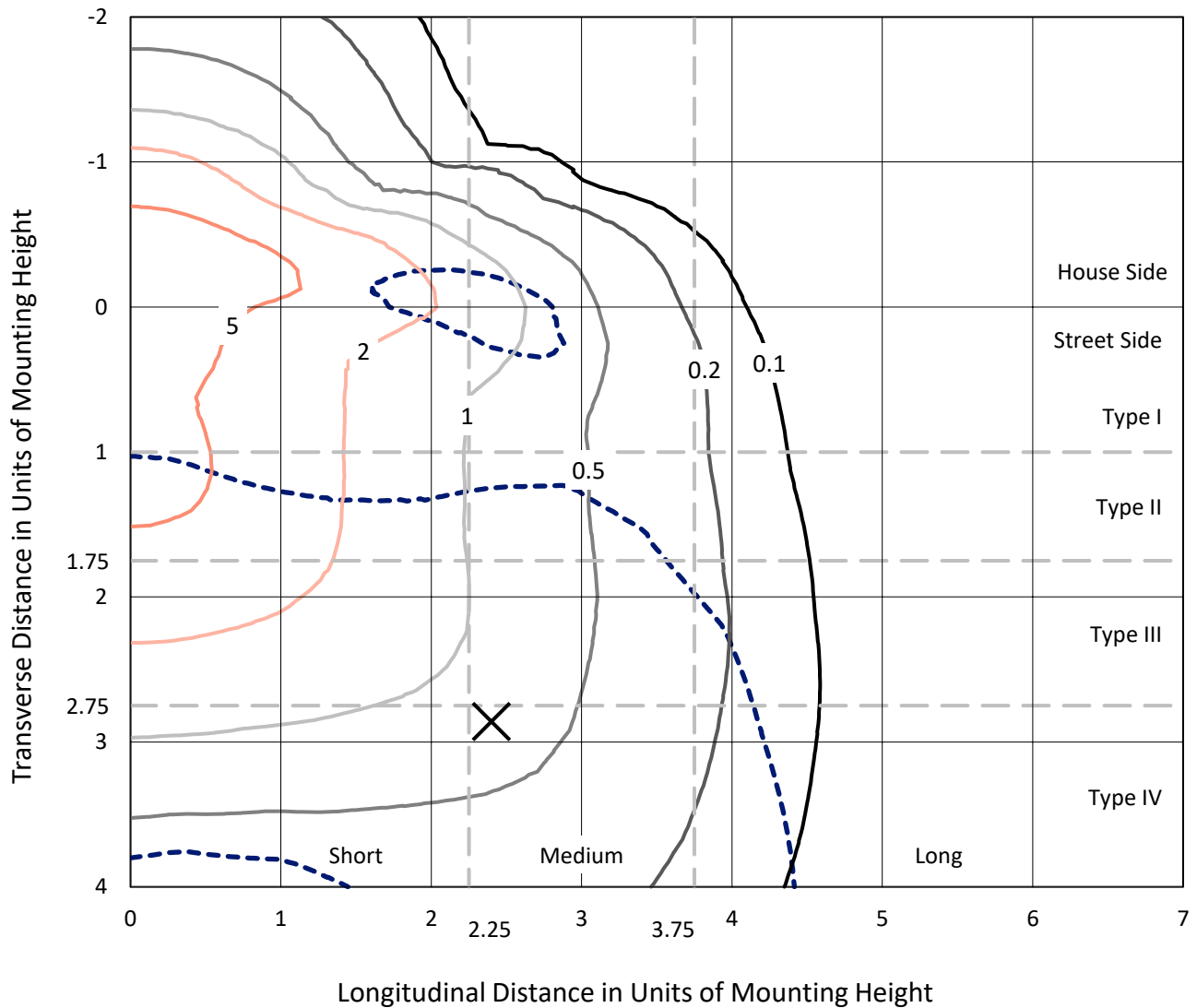
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

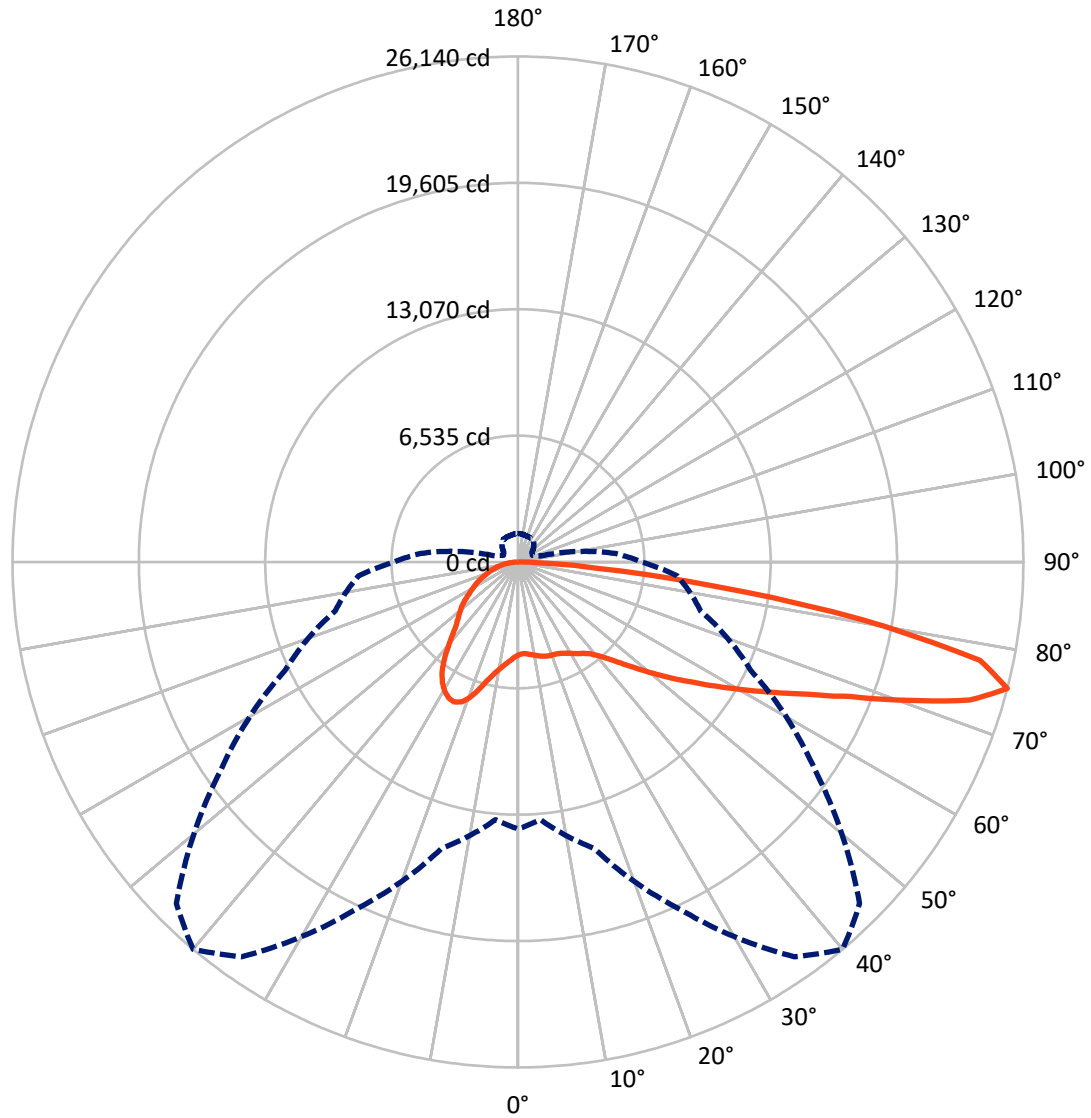
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	13012.4	0.0	13012.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	28985.6	0.0	28985.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	41998.0	0.0	41998.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.4	1.1
10°-20°	1609.5	3.8
20°-30°	2938.8	7.0
30°-40°	4168.1	9.9
40°-50°	5628.2	13.4
50°-60°	7571.4	18.0
60°-70°	9609.8	22.9
70°-80°	8721.5	20.8
80°-90°	1271.3	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°	41998.0	100.0
0°-180°	41998.0	100.0

Coefficient of Utilization



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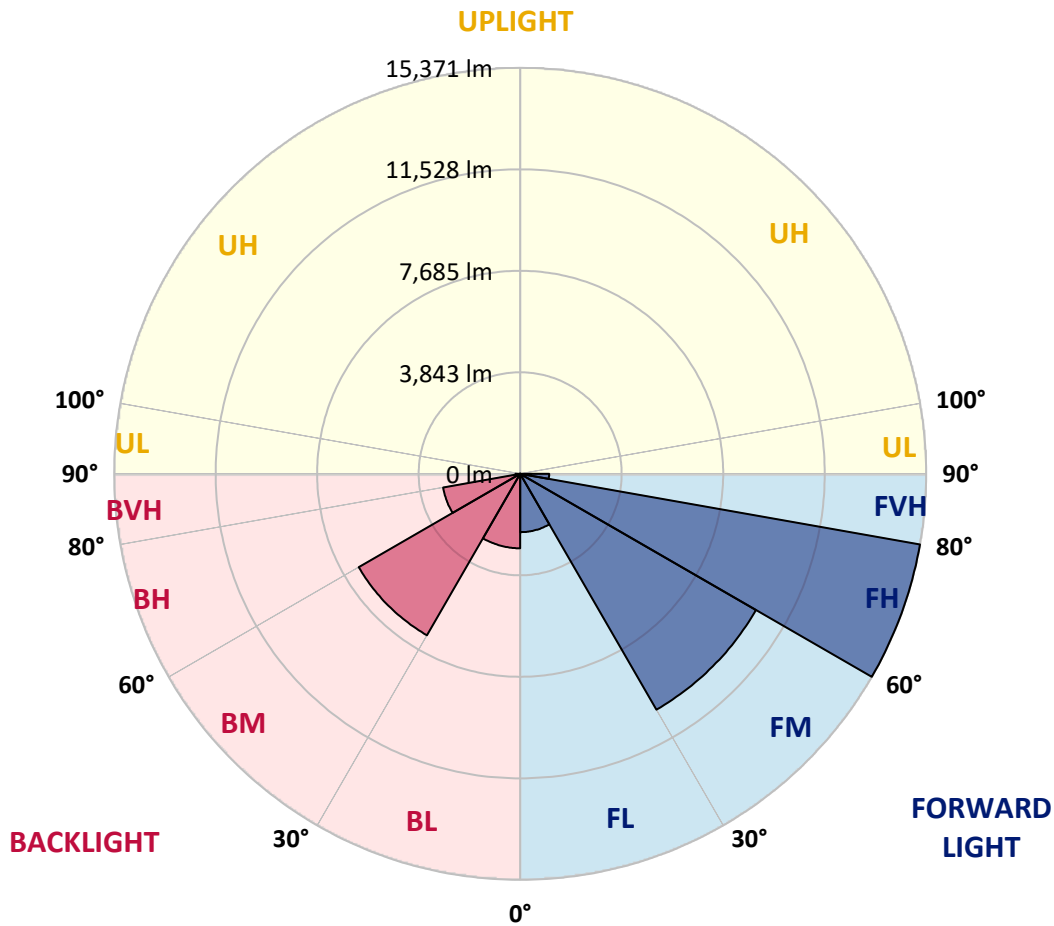
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2209.1	5.3			
FM (30°-60°)	10309.6	24.5			
FH (60°-80°)	15370.6	36.6			G5
FVH (80°-90°)	1096.3	2.6			G5
BL (0°-30°)	2818.6	6.7	B4/5000		
BM (30°-60°)	7058.0	16.8	B4/8500		
BH (60°-80°)	2960.7	7.0	B4/5000		G4/5000
BVH (80°-90°)	175.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	4802.5	4802.5	4802.5	4802.5	4802.5	4802.5	4802.5	4802.5	4802.5	4802.5
2.5°	4729.0	4755.7	4749.1	4740.2	4740.2	4742.4	4740.2	4755.7	4771.3	4786.9
5°	4778.0	4804.8	4791.4	4780.3	4771.3	4769.1	4762.4	4760.2	4769.1	4789.2
7.5°	4873.8	4900.5	4880.5	4860.4	4842.6	4833.7	4824.8	4811.4	4804.8	4815.9
10°	4980.7	5007.5	4983.0	4947.3	4918.4	4907.2	4898.3	4884.9	4876.0	4882.7
12.5°	5087.6	5114.4	5081.0	5032.0	4994.1	4987.4	4976.3	4971.8	4969.6	4967.4
15°	5187.9	5210.2	5167.8	5109.9	5069.8	5058.7	5047.6	5054.2	5065.4	5078.7
17.5°	5265.9	5288.1	5225.8	5150.0	5112.2	5107.7	5101.0	5123.3	5154.5	5187.9
20°	5337.1	5359.4	5279.2	5176.8	5132.2	5132.2	5134.4	5181.2	5225.8	5274.8
22.5°	5437.4	5455.2	5357.2	5216.8	5152.2	5156.7	5174.5	5221.3	5277.0	5343.8
25°	5586.6	5600.0	5479.7	5292.6	5219.1	5232.4	5248.0	5270.3	5323.8	5401.7
27.5°	5827.2	5838.3	5680.2	5426.2	5314.9	5337.1	5359.4	5343.8	5368.3	5435.1
30°	6165.8	6172.5	5972.0	5635.6	5477.5	5488.6	5493.1	5428.5	5381.7	5435.1
32.5°	6566.7	6564.5	6326.1	5889.6	5662.3	5651.2	5613.3	5486.4	5377.2	5424.0
35°	7188.2	7163.7	6856.3	6246.0	5871.7	5802.7	5713.6	5551.0	5399.5	5412.9
37.5°	8217.3	8141.6	7716.1	6829.6	6183.6	6007.6	5876.2	5655.7	5448.5	5408.4
40°	9377.8	9282.1	8814.3	7629.2	6651.4	6368.5	6156.9	5804.9	5528.7	5428.5
42.5°	10754.5	10618.6	10115.2	8571.5	7243.9	6834.0	6515.5	5994.2	5646.8	5493.1
45°	12445.1	12264.7	11551.9	9634.0	7990.1	7444.4	7018.9	6281.6	5827.2	5617.8
47.5°	14153.6	14198.2	13184.7	10850.2	8885.6	8197.3	7649.3	6713.7	6090.0	5818.3
50°	15969.1	16000.3	14808.5	12197.9	9901.3	9048.2	8357.6	7197.1	6455.3	6103.4
52.5°	17385.8	17390.2	16283.2	13607.9	10959.4	9983.7	9121.7	7749.5	6878.6	6482.1
55°	18272.3	18261.2	17316.7	14942.2	12175.6	10966.1	9968.1	8377.7	7395.4	6927.6
57.5°	18916.1	18882.7	18029.5	16089.4	13472.0	12126.6	10926.0	9090.5	8005.7	7457.7
60°	19161.1	19141.1	18512.9	17080.6	14835.3	13409.7	12030.8	9887.9	8698.5	8083.7
62.5°	19254.7	19292.5	18987.4	18040.7	16294.3	14830.8	13244.8	10841.3	9478.1	8792.0
65°	19584.3	19653.4	19591.0	19297.0	17942.7	16494.8	14855.3	11975.1	10329.0	9551.6
67.5°	20237.0	20306.0	20332.8	20800.6	19956.3	18568.6	16864.5	13387.4	11324.7	10340.1
70°	20221.4	20201.4	20673.6	21996.7	22477.9	21439.9	19573.2	15124.8	12512.0	10995.0
72.5°	18406.0	18245.6	19361.6	21983.4	24576.2	24438.1	22881.1	17365.7	13536.6	11075.2
75°	13808.4	13380.7	15352.0	19811.5	24925.9	26139.9	24983.8	18755.7	13293.8	9785.5
77.5°	5905.1	5475.2	7798.5	14666.0	22308.6	24435.9	23054.8	16363.3	10611.9	6470.9
80°	1545.9	1543.7	2356.7	6649.1	15171.6	18045.1	15831.0	10567.3	6063.3	2312.2
82.5°	639.3	623.7	866.5	2586.1	7413.2	10126.3	8264.1	4713.4	2189.6	625.9
85°	238.3	236.1	421.0	893.2	2615.1	4176.6	3022.7	1205.1	545.7	305.2
87.5°	66.8	64.6	91.3	309.6	637.1	966.7	516.8	198.2	153.7	120.3
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°
4802.5	0°	4802.5	4802.5	4802.5	4802.5	4802.5	4802.5	4802.5	4802.5	4802.5	4802.5
4811.4	2.5°	4818.1	4829.3	4849.3	4864.9	4884.9	4907.2	4938.4	4958.5	4978.5	4991.9
4822.6	5°	4838.2	4862.7	4913.9	4965.1	5025.3	5081.0	5145.6	5192.3	5230.2	5241.3
4862.7	7.5°	4882.7	4922.8	5009.7	5096.6	5192.3	5283.7	5377.2	5457.4	5522.0	5546.5
4934.0	10°	4960.7	5014.1	5136.7	5259.2	5386.1	5526.5	5646.8	5762.6	5853.9	5891.8
5018.6	12.5°	5058.7	5125.5	5285.9	5455.2	5631.2	5825.0	5980.9	6123.4	6237.0	6288.3
5136.7	15°	5185.7	5272.5	5477.5	5704.7	5963.1	6232.6	6430.8	6589.0	6716.0	6778.3
5259.2	17.5°	5323.8	5439.6	5698.0	6041.0	6410.8	6765.0	6996.6	7112.5	7243.9	7304.0
5372.8	20°	5457.4	5600.0	5969.7	6468.7	6961.0	7337.4	7524.6	7555.7	7564.6	7571.3
5479.7	22.5°	5595.5	5787.1	6310.6	7007.8	7535.7	7796.3	7823.0	7689.4	7502.3	7415.4
5584.4	25°	5747.0	6000.9	6756.1	7602.5	8030.2	8061.4	7856.5	7531.2	7177.1	7014.5
5669.0	27.5°	5894.0	6248.2	7290.7	8170.5	8386.6	8112.6	7671.6	7210.5	6782.8	6611.3
5729.2	30°	6041.0	6531.1	7881.0	8667.3	8549.2	7985.6	7379.8	6865.2	6435.3	6254.9
5782.6	32.5°	6190.3	6860.8	8560.3	9025.9	8520.3	7716.1	7016.7	6477.6	6098.9	5909.6
5829.4	35°	6359.6	7266.2	9204.1	9221.9	8326.5	7319.6	6537.8	6014.3	5684.6	5533.2
5885.1	37.5°	6580.1	7780.7	9772.1	9270.9	7987.9	6738.2	5943.0	5466.3	5194.6	5125.5
5967.5	40°	6854.1	8400.0	10206.5	9193.0	7486.7	6032.1	5292.6	4911.7	4758.0	4773.6
6078.9	42.5°	7210.5	9092.7	10511.7	8992.5	6789.5	5303.7	4722.3	4553.0	4626.6	4688.9
6246.0	45°	7673.8	9812.2	10701.0	8651.7	6000.9	4686.7	4386.0	4426.1	4481.8	4488.4
6515.5	47.5°	8266.3	10540.6	10825.7	8137.1	5196.8	4252.3	4172.1	4181.0	4169.9	4123.1
6918.7	50°	9005.9	11249.0	10937.1	7455.5	4513.0	3980.6	3873.7	3842.5	3688.8	3537.3
7455.5	52.5°	9847.9	11899.4	10983.9	6609.0	3980.6	3753.4	3579.6	3383.6	3096.2	3049.5
8130.4	55°	10783.4	12500.8	10863.6	5568.8	3532.8	3461.6	3198.7	2962.6	2931.4	2891.3
9019.2	57.5°	11901.6	13149.0	10618.6	4408.3	3074.0	3120.8	2864.6	2891.3	2835.6	2773.3
10161.9	60°	13124.5	13819.5	10188.7	3350.2	2599.5	2695.3	2777.7	2775.5	2759.9	2708.7
11367.0	62.5°	14224.9	14260.6	9342.2	2566.1	2183.0	2365.6	2590.6	2588.4	2575.0	2546.1
12625.6	65°	14879.8	14193.7	7930.0	2020.4	1839.9	2093.9	2336.7	2354.5	2356.7	2354.5
13572.3	67.5°	14764.0	13411.9	5992.0	1608.3	1557.0	1817.7	2085.0	2109.5	2127.3	2131.7
13692.5	70°	13454.2	11694.5	3907.1	1283.0	1305.3	1574.9	1846.6	1871.1	1886.7	1904.5
11881.6	72.5°	10487.2	8598.2	2236.4	1038.0	1084.8	1365.5	1610.5	1639.5	1648.4	1681.8
8268.5	75°	6390.7	5056.5	1207.3	817.5	891.0	1167.2	1376.6	1410.0	1425.6	1465.7
4060.8	77.5°	3038.3	2189.6	688.3	637.1	717.3	953.4	1162.8	1200.6	1158.3	1180.6
1120.4	80°	1026.9	813.0	434.4	485.6	548.0	744.0	931.1	969.0	879.9	875.4
372.0	82.5°	358.6	329.7	276.2	323.0	354.2	532.4	703.9	752.9	654.9	652.7
167.1	85°	140.3	133.7	153.7	176.0	211.6	327.4	463.3	487.8	403.2	325.2
49.0	87.5°	29.0	31.2	37.9	40.1	64.6	113.6	167.1	204.9	162.6	138.1
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>
4802.5
4983.0
5245.8
5548.7
5894.0
6288.3
6773.9
7301.8
7589.2
7439.9
7039.0
6631.3
6274.9
5934.1
5566.6
5174.5
4827.0
4746.8
4533.0
4158.8
3557.3
3065.1
2898.0
2762.1
2690.8
2534.9
2354.5
2136.2
1913.4
1695.1
1470.2
1162.8
866.5
621.5
320.8
127.0
0.0

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