

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: P954296

Luminaire Tested: **GALN-SB7C-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-830-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48498 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

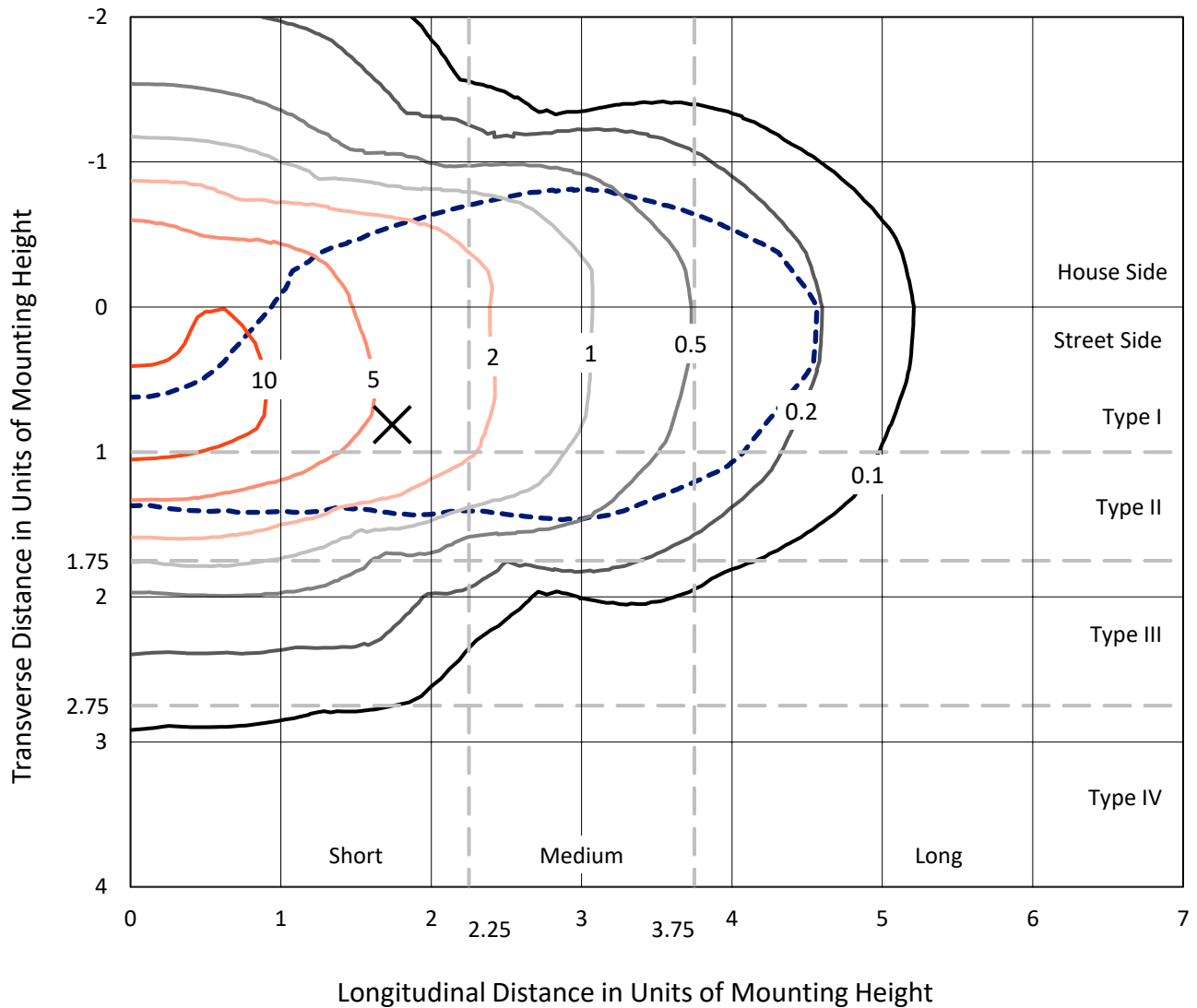
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

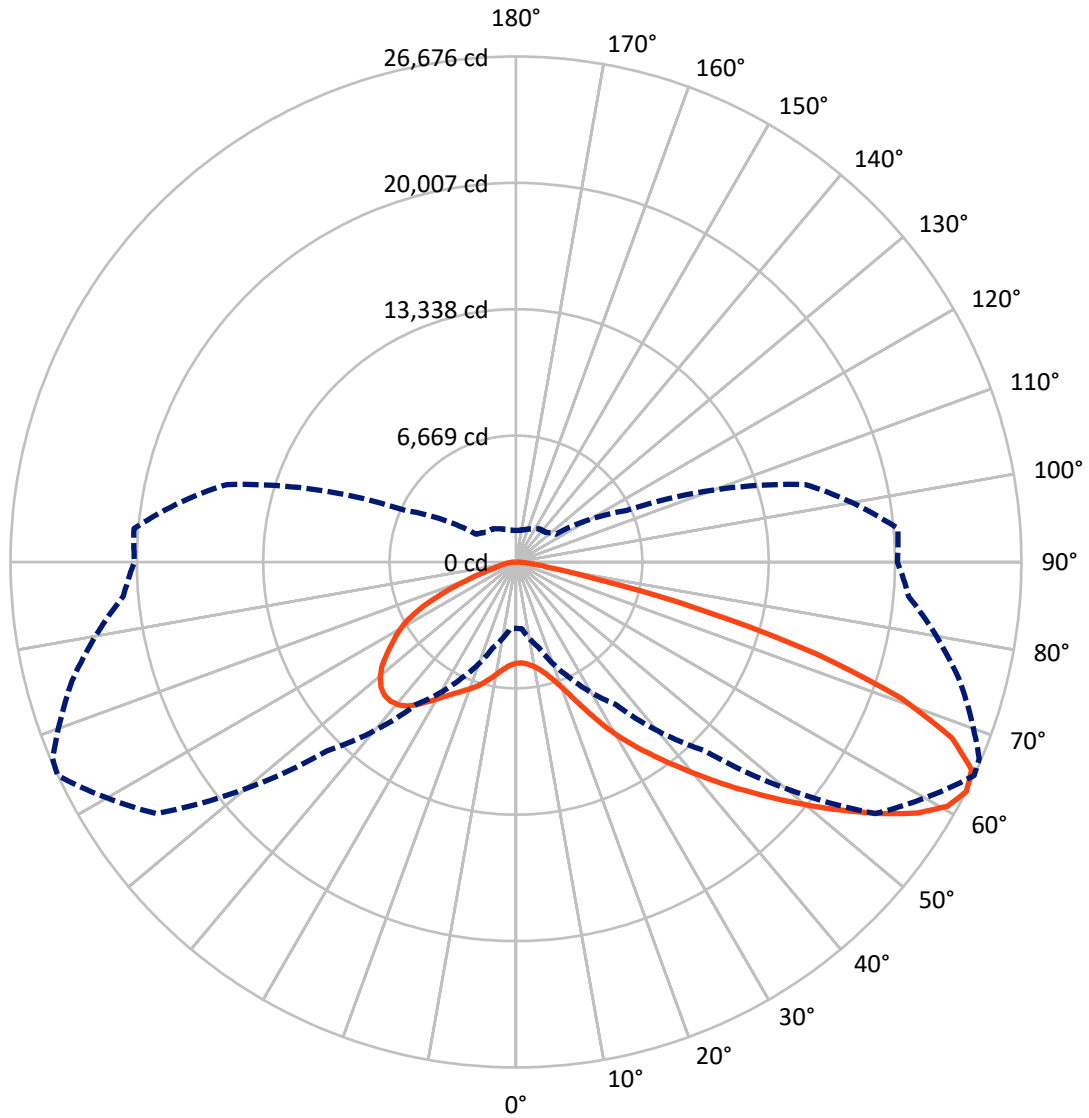
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15303.9	0.0	15303.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	33194.1	0.0	33194.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	48498.0	0.0	48498.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.8	1.1
10°-20°	1806.8	3.7
20°-30°	3663.5	7.6
30°-40°	6339.7	13.1
40°-50°	9593.9	19.8
50°-60°	11248.3	23.2
60°-70°	9430.3	19.4
70°-80°	5206.3	10.7
80°-90°	676.3	1.4
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°	48498.0	100.0
0°-180°	48498.0	100.0

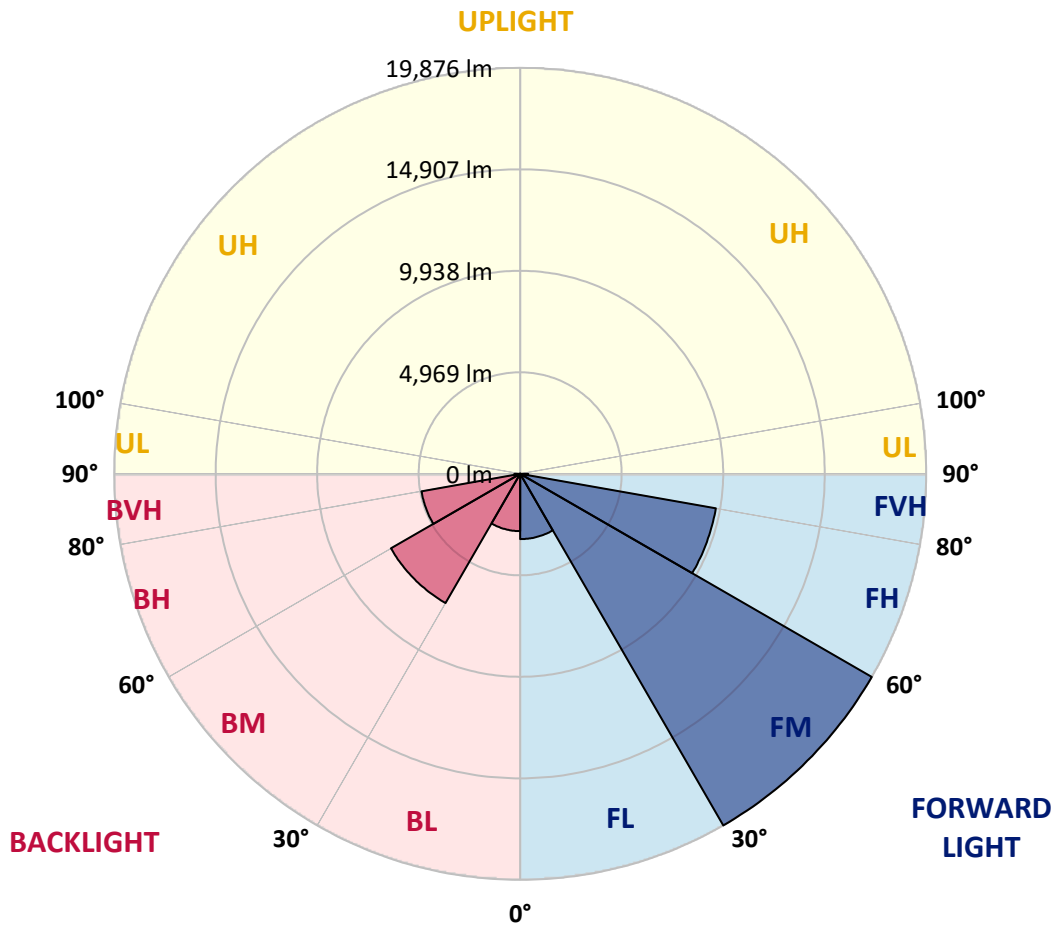


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3196.7	6.6			
FM (30°-60°)	19876.1	41.0			
FH (60°-80°)	9727.3	20.1			G4/12000
FVH (80°-90°)	394.2	0.8			G3/500
BL (0°-30°)	2806.5	5.8	B4/5000		
BM (30°-60°)	7305.8	15.1	B4/8500		
BH (60°-80°)	4909.4	10.1	B4/5000		G4/5000
BVH (80°-90°)	282.1	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	5344.3	5344.3	5344.3	5344.3	5344.3	5344.3	5344.3	5344.3	5344.3	5344.3
2.5°	5309.0	5293.9	5306.5	5306.5	5311.6	5309.0	5326.7	5331.7	5339.2	5354.3
5°	5256.2	5253.7	5276.3	5296.5	5316.6	5334.2	5356.8	5389.6	5394.6	5412.2
7.5°	5238.6	5223.5	5258.7	5283.9	5331.7	5374.5	5434.9	5490.2	5512.9	5520.4
10°	5374.5	5349.3	5382.0	5397.1	5437.4	5480.1	5550.6	5638.7	5663.8	5694.0
12.5°	5605.9	5578.3	5626.1	5648.7	5686.5	5724.2	5772.0	5857.6	5870.1	5925.5
15°	5923.0	5890.3	5920.5	5948.1	6011.0	6046.3	6094.1	6177.1	6177.1	6219.9
17.5°	6353.2	6310.5	6333.1	6343.2	6383.4	6436.3	6516.8	6589.8	6627.5	6612.4
20°	6994.9	6942.0	6942.0	6891.7	6876.6	6919.4	7025.0	7125.7	7166.0	7088.0
22.5°	7958.5	7883.0	7840.3	7669.2	7601.2	7606.3	7712.0	7835.2	7868.0	7729.6
25°	9183.9	9065.6	9007.8	8756.1	8602.7	8469.3	8552.3	8710.9	8756.1	8585.1
27.5°	10409.2	10416.8	10361.4	10059.5	9805.4	9561.3	9518.5	9684.6	9732.4	9538.7
30°	12127.8	11949.1	11843.4	11481.1	11118.8	10776.6	10600.5	10668.4	10681.0	10449.5
32.5°	13609.8	13564.5	13338.0	13021.0	12555.5	12019.6	11725.2	11617.0	11596.9	11267.2
35°	15298.1	15272.9	15033.9	14656.5	14153.3	13408.5	12877.6	12568.1	12542.9	12080.0
37.5°	17014.1	17014.1	16780.1	16367.5	15846.6	14915.6	14108.0	13617.3	13536.8	12932.9
40°	18382.9	18299.8	18342.6	18169.0	17572.7	16583.8	15474.2	14762.2	14654.0	13929.3
42.5°	19160.4	19132.7	19389.3	19583.1	19339.0	18548.9	16978.9	16002.6	15851.6	15026.4
45°	19334.0	19303.8	19761.7	20471.3	20813.5	20488.9	18614.4	17308.5	17124.8	16173.7
47.5°	18933.9	18873.5	19545.3	20665.0	21762.0	22333.2	20385.7	18725.1	18458.4	17290.9
50°	17731.2	17673.3	18689.8	20176.9	22081.6	23586.2	22308.0	20227.2	19819.6	18488.6
52.5°	15116.9	15144.6	16737.3	18780.4	21661.4	24366.2	23963.7	21809.9	21319.2	19713.9
55°	11775.5	11835.9	13793.4	16042.9	19980.6	24248.0	25093.4	23440.3	22952.2	20866.3
57.5°	8431.6	8698.3	10532.5	12759.3	16752.4	22373.5	25340.0	24990.2	24517.2	22124.4
60°	5465.0	5512.9	7400.0	9644.3	12756.8	19042.1	24839.3	26165.3	25795.4	23407.6
62.5°	3502.5	3535.2	4685.0	6745.8	9181.4	14087.8	23153.5	26676.1	26562.8	24255.5
65°	2574.0	2548.8	3147.7	4458.6	6184.7	8688.2	19880.0	26429.5	26653.4	24786.4
67.5°	2148.8	2113.6	2407.9	3087.3	4556.7	4934.1	14709.3	24826.7	25647.0	24726.1
70°	1957.6	1927.4	2106.0	2292.2	3555.3	3303.7	7415.0	21583.4	22846.5	24039.1
72.5°	1658.1	1605.3	1849.4	2035.6	2765.2	2533.7	3064.7	16578.8	18118.7	21837.5
75°	1285.7	1250.5	1459.4	1791.5	2078.3	1977.7	1937.4	10067.1	11747.8	16888.3
77.5°	1019.0	971.2	1162.5	1396.5	1869.5	1492.1	1411.6	4335.3	6001.0	10781.6
80°	767.4	724.6	883.2	1104.6	1436.7	1124.7	913.4	1768.8	2262.0	5462.5
82.5°	546.0	508.3	616.5	810.2	966.2	1009.0	561.1	991.4	1114.6	2106.0
85°	349.7	327.1	412.6	508.3	613.9	649.2	342.2	518.3	568.6	868.1
87.5°	191.2	156.0	221.4	236.5	284.3	259.2	163.5	188.7	203.8	314.5
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°
5344.3	0°	5344.3	5344.3	5344.3	5344.3	5344.3	5344.3	5344.3	5344.3	5344.3	5344.3
5354.3	2.5°	5364.4	5371.9	5397.1	5404.7	5422.3	5444.9	5460.0	5475.1	5475.1	5490.2
5434.9	5°	5437.4	5455.0	5507.8	5535.5	5580.8	5626.1	5653.8	5686.5	5706.6	5716.7
5563.2	7.5°	5578.3	5605.9	5681.4	5729.2	5807.2	5870.1	5912.9	5958.2	5968.3	5995.9
5741.8	10°	5769.5	5802.2	5887.8	5978.3	6071.4	6149.4	6189.7	6222.4	6235.0	6240.0
5970.8	12.5°	5988.4	6036.2	6146.9	6257.6	6355.8	6423.7	6433.8	6426.2	6391.0	6360.8
6252.6	15°	6257.6	6300.4	6423.7	6544.5	6640.1	6652.7	6589.8	6549.5	6506.7	6499.2
6567.1	17.5°	6579.7	6602.3	6715.6	6833.8	6841.4	6798.6	6705.5	6667.8	6627.5	6599.8
6977.2	20°	6954.6	6947.0	7027.6	7077.9	7025.0	6894.2	6753.3	6690.4	6650.1	6617.4
7480.5	22.5°	7402.5	7344.6	7334.5	7322.0	7181.0	6906.8	6715.6	6635.0	6572.1	6526.9
8182.5	25°	8054.1	7832.7	7679.2	7593.7	7276.7	6838.9	6594.8	6416.1	6297.9	6219.9
9040.5	27.5°	8869.4	8497.0	8109.5	7900.7	7276.7	6700.5	6302.9	6013.6	5819.8	5739.3
9870.8	30°	9646.9	9256.9	8685.7	8270.5	7259.0	6474.0	5832.4	5429.8	5203.4	5122.8
10580.3	32.5°	10311.1	9885.9	9297.1	8675.6	7216.3	6106.7	5248.7	4803.3	4584.4	4488.8
11282.3	35°	10927.6	10474.7	9911.1	9121.0	7103.0	5568.2	4607.0	4267.4	4023.3	3869.8
11996.9	37.5°	11559.1	11020.7	10492.3	9523.6	6899.2	4939.2	4113.9	3824.5	3537.7	3331.4
12756.8	40°	12246.0	11601.9	11113.8	9762.6	6564.6	4340.3	3731.4	3467.2	3162.8	2943.9
13632.4	42.5°	13048.7	12298.9	11805.7	9885.9	6106.7	3915.1	3482.3	3223.2	2936.3	2757.7
14570.9	45°	13886.5	13066.3	12437.3	9883.4	5595.9	3716.3	3401.8	3145.2	2828.1	2641.9
15534.6	47.5°	14764.7	13868.9	12983.3	9722.3	5153.0	3744.0	3356.5	2976.6	2626.8	2445.7
16508.4	50°	15645.3	14747.1	13511.6	9420.4	4964.3	3683.6	3187.9	2740.1	2327.4	2163.9
17421.7	52.5°	16518.4	15680.5	13967.1	8990.1	4773.1	3459.7	2971.6	2433.1	2204.1	2090.9
18365.3	55°	17396.6	16604.0	14462.7	8363.6	4295.0	3198.0	2609.2	2317.4	2106.0	2002.8
19288.7	57.5°	18277.2	17670.8	14933.3	7737.1	3693.7	2875.9	2410.5	2176.5	2007.9	1919.8
20061.1	60°	19193.1	18891.1	15418.9	7160.9	3099.9	2463.3	2264.5	2063.2	1892.1	1794.0
20803.4	62.5°	20136.6	20234.8	15798.8	6418.7	2553.9	2211.7	2133.7	1927.4	1761.3	1668.2
21417.3	65°	21087.7	21530.6	16047.9	5389.6	2070.8	1972.6	1992.8	1778.9	1610.3	1529.8
21867.7	67.5°	21804.8	22464.0	15977.5	4078.7	1698.4	1746.2	1816.6	1622.9	1464.4	1401.5
21794.8	70°	21885.3	22353.3	15283.0	2792.9	1421.6	1524.8	1620.4	1469.4	1305.9	1260.6
20768.2	72.5°	20813.5	20843.7	13348.1	1824.2	1202.7	1338.6	1414.1	1313.4	1154.9	1109.6
18169.0	75°	18002.9	17238.0	9800.3	1202.7	1006.5	1149.9	1220.3	1149.9	996.4	1006.5
13594.7	77.5°	13640.0	12208.3	5950.7	855.5	840.4	966.2	1061.8	1011.5	880.6	988.8
6836.3	80°	7027.6	6604.9	2654.5	639.1	664.3	772.5	873.1	807.7	697.0	664.3
1527.3	82.5°	1610.3	1872.0	1046.7	457.9	480.6	556.1	666.8	606.4	500.7	422.7
636.6	85°	563.6	616.5	463.0	286.8	281.8	347.2	452.9	405.1	339.7	271.7
269.2	87.5°	178.6	234.0	173.6	115.7	120.8	156.0	208.8	191.2	158.5	103.2
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>
5344.3
5490.2
5721.7
5985.9
6227.4
6360.8
6499.2
6602.3
6619.9
6541.9
6250.1
5779.6
5170.7
4536.6
3920.1
3386.7
2986.7
2792.9
2672.1
2470.8
2173.9
2090.9
1992.8
1904.7
1786.5
1665.7
1527.3
1404.0
1263.1
1107.1
971.2
870.6
606.4
417.7
286.8
108.2
0.0

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