

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: P951360

Luminaire Tested: **GALN-SB5C-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-740-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39946 lumens
Efficiency: N/A
Efficacy: 160.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

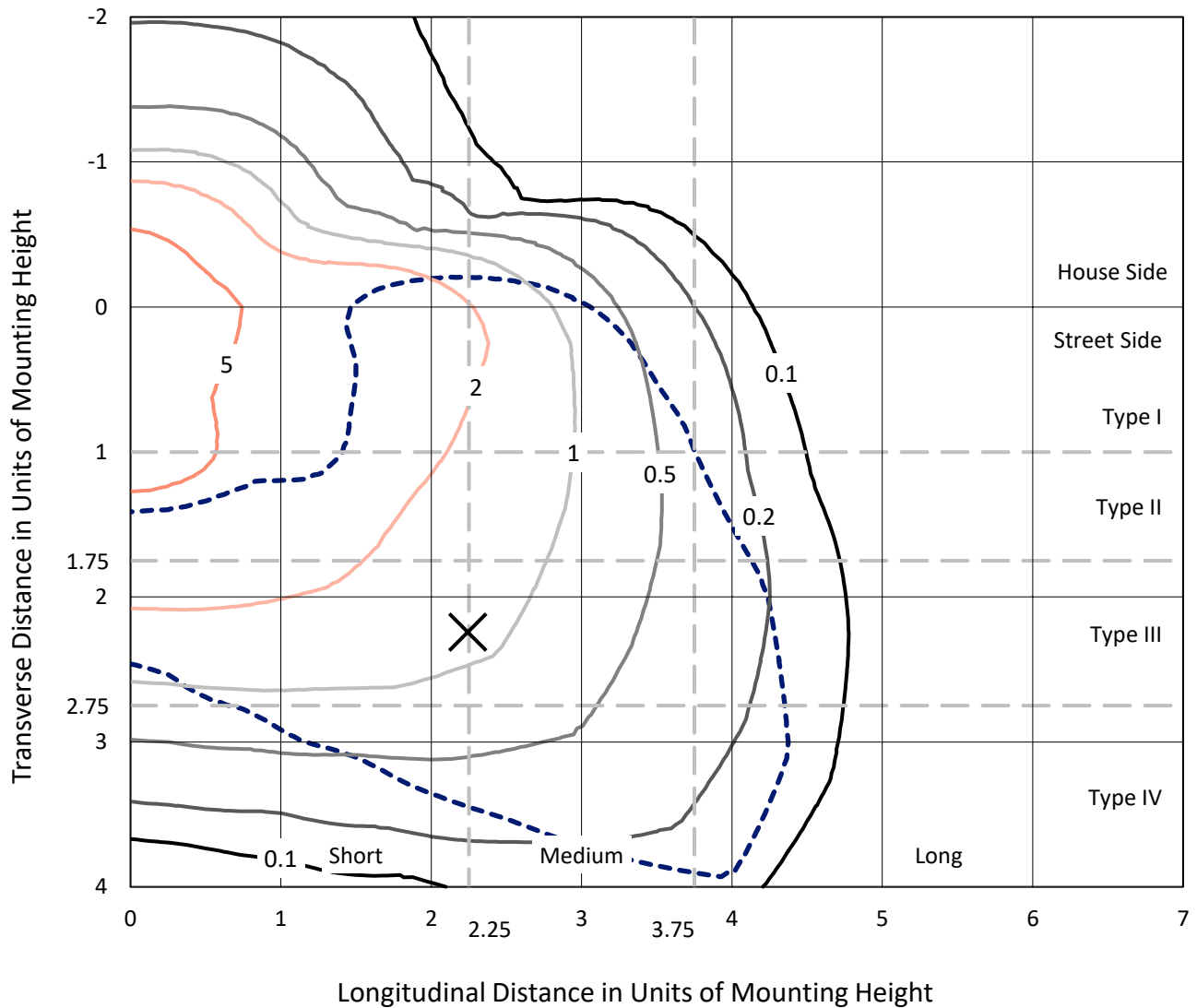
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

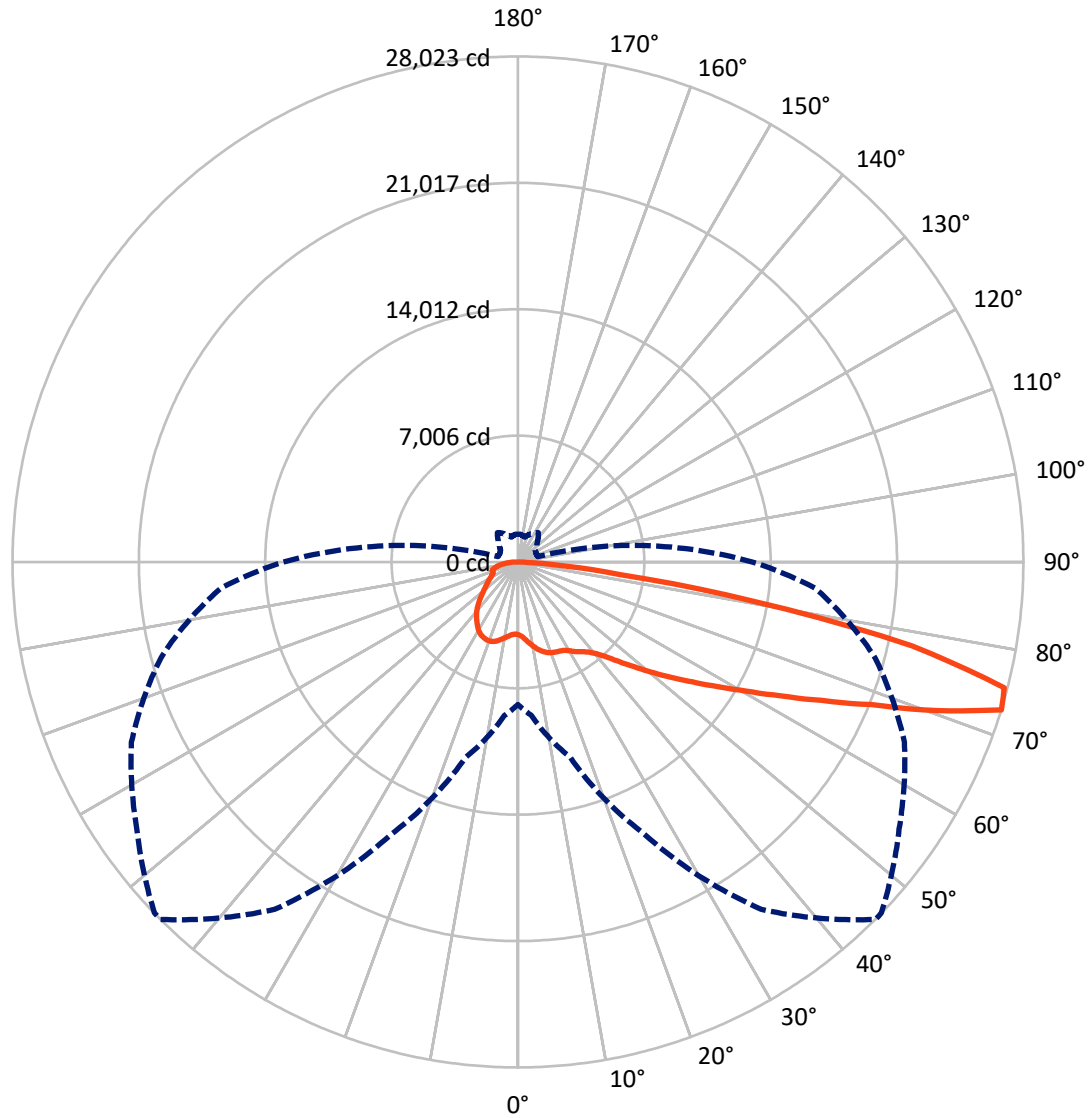
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9030.4	0.0	9030.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	30915.6	0.0	30915.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	39946.0	0.0	39946.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.1	1.0
10°-20°	1367.5	3.4
20°-30°	2378.8	6.0
30°-40°	3410.2	8.5
40°-50°	4801.8	12.0
50°-60°	7354.9	18.4
60°-70°	10654.6	26.7
70°-80°	8508.4	21.3
80°-90°	1059.7	2.7
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°	39946.0	100.0
0°-180°	39946.0	100.0



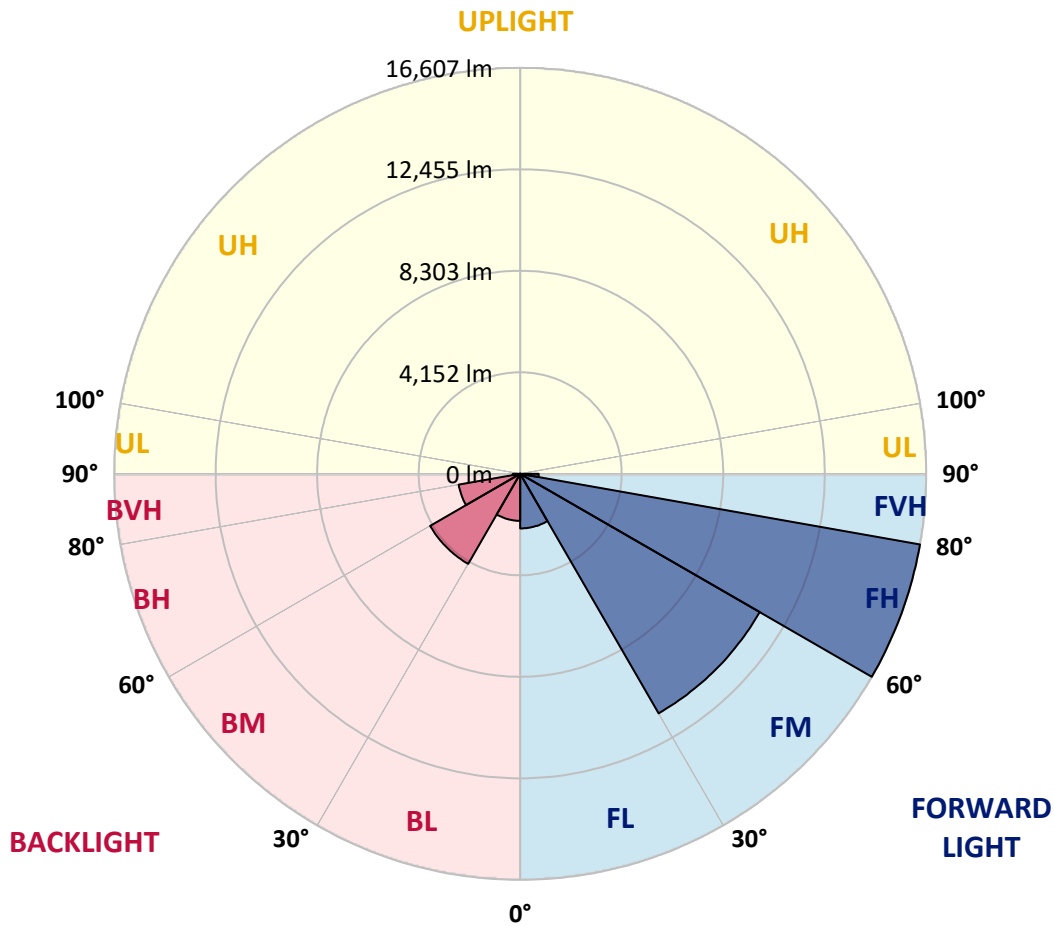
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2233.8	5.6			
FM (30°-60°)	11314.8	28.3			
FH (60°-80°)	16606.7	41.6			G5
FVH (80°-90°)	760.2	1.9			G5
BL (0°-30°)	1922.6	4.8	B3/2500		
BM (30°-60°)	4252.0	10.6	B3/5000		
BH (60°-80°)	2556.3	6.4	B4/5000		G4/5000
BVH (80°-90°)	299.5	0.7			G3/500
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8
2.5°	4187.6	4215.0	4189.7	4166.6	4156.0	4128.7	4126.6	4109.7	4099.2	4069.8
5°	4480.1	4515.9	4473.8	4427.5	4385.4	4318.1	4309.6	4261.2	4206.5	4143.4
7.5°	4810.5	4842.0	4793.6	4724.2	4650.5	4539.0	4536.9	4448.5	4362.3	4254.9
10°	5098.8	5140.9	5075.6	4980.9	4888.3	4762.1	4747.3	4646.3	4536.9	4398.0
12.5°	5353.4	5382.9	5319.7	5204.0	5096.7	4970.4	4951.5	4839.9	4717.9	4560.1
15°	5555.4	5593.3	5509.1	5385.0	5271.3	5147.2	5130.3	5029.3	4907.3	4741.0
17.5°	5688.0	5719.5	5633.3	5494.4	5385.0	5281.8	5269.2	5185.0	5077.7	4909.4
20°	5738.5	5772.2	5681.7	5540.7	5439.7	5359.7	5353.4	5292.4	5218.7	5065.1
22.5°	5789.0	5820.6	5702.7	5555.4	5467.0	5416.5	5414.4	5374.4	5345.0	5218.7
25°	5993.1	6001.5	5843.7	5631.2	5504.9	5460.7	5458.6	5456.5	5469.1	5370.2
27.5°	6169.9	6167.8	6033.1	5833.2	5637.5	5544.9	5542.8	5563.8	5603.8	5521.7
30°	6428.7	6405.6	6245.6	6037.3	5858.4	5715.3	5702.7	5683.8	5715.3	5650.1
32.5°	6977.9	6904.3	6645.4	6275.1	6041.5	5932.1	5915.2	5797.4	5810.0	5770.0
35°	7764.9	7668.1	7323.0	6725.4	6268.8	6113.1	6104.6	5955.2	5930.0	5894.2
37.5°	8701.4	8581.4	8179.5	7377.7	6660.2	6323.5	6310.9	6176.2	6073.1	6035.2
40°	9642.0	9490.5	9158.0	8173.2	7236.8	6674.9	6634.9	6430.8	6313.0	6249.8
42.5°	10555.3	10429.0	10144.9	9065.4	7948.0	7188.4	7100.0	6750.7	6662.3	6603.4
45°	11363.3	11249.7	11041.4	10018.7	8781.3	7887.0	7800.7	7230.4	7203.1	7203.1
47.5°	12019.9	11994.6	11773.7	10990.9	9764.0	8682.4	8533.0	7897.5	7971.2	8084.8
50°	12748.0	12678.5	12442.8	11948.3	10919.3	9593.6	9471.5	8716.1	8991.8	9303.2
52.5°	13417.1	13455.0	13192.0	12945.8	12224.0	10610.0	10395.3	9682.0	10277.5	10793.1
55°	14105.3	14107.4	14033.7	14000.0	13591.8	11733.7	11498.0	10843.6	11790.5	12430.2
57.5°	14751.3	14755.5	14864.9	15161.6	15178.5	13030.0	12762.7	12270.3	13471.9	14124.2
60°	15327.9	15357.3	15656.1	16350.6	16573.6	14515.6	14263.1	13955.9	15210.0	15866.6
62.5°	15521.5	15628.8	16293.8	17280.7	17952.0	16337.9	16089.6	15906.6	17036.6	17646.8
65°	15193.2	15439.4	16725.1	18048.8	19370.3	18503.3	18257.1	18057.2	18934.7	19509.2
67.5°	14387.2	14705.0	16699.9	18854.7	21091.6	21108.4	20879.1	20409.8	20969.6	21190.5
70°	12264.0	12739.6	15229.0	19155.6	23067.6	24671.1	24450.1	23242.2	23000.2	21931.2
72.5°	7901.7	8541.4	11213.9	16678.8	23507.4	28023.2	28010.6	25799.0	23642.0	20491.9
75°	2882.9	3274.3	5210.3	10469.0	19732.2	27852.8	27934.9	25361.3	21581.9	15828.7
77.5°	1050.1	1149.0	1700.3	4023.5	12135.6	22347.9	22518.3	20275.1	15361.5	7943.8
80°	551.3	606.0	871.2	1561.4	5199.8	13271.9	13539.2	12049.3	7219.9	2392.6
82.5°	305.1	330.4	488.2	848.0	2342.1	5675.4	5835.3	4760.0	2539.9	1014.3
85°	164.1	174.7	229.4	463.0	1144.8	1967.5	2011.7	1422.5	1012.2	595.5
87.5°	48.4	58.9	75.8	147.3	448.2	441.9	452.4	282.0	399.8	300.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951360
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4029.8	0°	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8
4061.3	2.5°	4048.7	4042.4	4019.3	4008.7	3996.1	3994.0	4004.5	4006.6	4008.7	4010.8
4107.6	5°	4086.6	4065.5	4044.5	4031.9	4036.1	4038.2	4059.2	4074.0	4084.5	4092.9
4193.9	7.5°	4160.2	4143.4	4107.6	4105.5	4111.8	4130.8	4158.1	4191.8	4210.7	4225.5
4305.4	10°	4269.7	4238.1	4196.0	4202.3	4215.0	4242.3	4299.1	4326.5	4358.0	4385.4
4442.2	12.5°	4381.2	4353.8	4305.4	4309.6	4330.7	4379.1	4433.8	4467.5	4488.5	4509.6
4589.5	15°	4526.4	4478.0	4425.4	4425.4	4463.3	4515.9	4541.1	4568.5	4581.1	4604.3
4747.3	17.5°	4675.8	4612.7	4543.2	4539.0	4585.3	4610.6	4625.3	4629.5	4633.7	4659.0
4901.0	20°	4825.2	4755.8	4656.9	4648.4	4659.0	4654.8	4652.7	4648.4	4654.8	4686.3
5058.8	22.5°	4972.5	4892.5	4755.8	4717.9	4688.4	4648.4	4646.3	4644.2	4648.4	4680.0
5229.2	25°	5145.1	5048.3	4865.2	4751.6	4652.7	4597.9	4604.3	4606.4	4610.6	4635.8
5406.0	27.5°	5332.3	5225.0	4966.2	4741.0	4562.2	4524.3	4513.8	4520.1	4534.8	4574.8
5582.8	30°	5519.6	5393.4	5058.8	4698.9	4448.5	4395.9	4362.3	4377.0	4423.3	4463.3
5736.4	32.5°	5690.1	5563.8	5132.4	4606.4	4303.3	4221.3	4177.1	4196.0	4242.3	4257.0
5906.8	35°	5890.0	5746.9	5164.0	4459.1	4145.5	4019.3	3960.3	3933.0	3956.1	3941.4
6106.7	37.5°	6113.1	5963.6	5159.8	4265.5	3960.3	3815.1	3733.1	3630.0	3581.6	3531.0
6401.3	40°	6443.4	6228.8	5109.3	4031.9	3731.0	3598.4	3451.1	3276.4	3167.0	3068.1
6876.9	42.5°	6893.8	6597.0	5016.7	3775.2	3472.1	3348.0	3148.1	2943.9	2771.4	2607.3
7598.7	45°	7565.0	7078.9	4901.0	3501.6	3192.3	3070.2	2853.5	2624.1	2428.4	2218.0
8623.5	47.5°	8533.0	7727.1	4791.5	3190.1	2897.6	2786.1	2590.4	2377.9	2146.4	1942.3
10104.9	50°	9863.0	8657.2	4690.5	2887.1	2607.3	2523.1	2367.4	2150.6	1917.0	1752.9
11841.0	52.5°	11554.8	9921.9	4648.4	2594.6	2335.8	2304.2	2180.1	1978.1	1757.1	1618.2
13865.4	55°	13497.1	11434.9	4648.4	2314.8	2098.0	2108.5	2022.3	1835.0	1643.5	1519.3
15952.9	57.5°	15479.4	12966.8	4564.3	2055.9	1896.0	1940.2	1885.5	1721.3	1548.8	1420.4
18147.7	60°	17305.9	14250.5	4223.4	1820.2	1717.1	1786.6	1750.8	1609.8	1399.4	1292.1
19982.6	62.5°	18709.5	14974.3	3566.8	1633.0	1569.8	1649.8	1630.8	1462.5	1372.0	1327.8
21489.3	65°	19412.4	14856.5	2727.2	1466.7	1445.7	1569.8	1529.8	1523.5	1452.0	1401.5
21979.6	67.5°	18981.0	13842.2	1978.1	1344.7	1374.1	1496.2	1649.8	1675.0	1542.5	1443.6
20599.2	70°	17089.2	12007.3	1473.0	1228.9	1283.6	1498.3	1881.3	1752.9	1513.0	1397.3
16521.0	72.5°	13000.5	8953.9	1142.6	1106.9	1165.8	1508.8	1984.4	1717.1	1428.8	1544.6
10292.2	75°	7434.6	4915.7	917.5	957.5	1018.5	1409.9	1931.8	1624.5	1363.6	1418.3
4078.2	77.5°	2834.5	1889.7	757.6	810.2	818.6	1231.0	1847.6	1618.2	1298.4	1266.8
1222.6	80°	982.7	738.6	627.1	643.9	633.4	1094.2	1771.8	1407.8	1062.7	951.2
505.0	82.5°	401.9	368.3	496.6	475.6	450.3	850.1	1430.9	1151.1	869.1	768.1
244.1	85°	174.7	233.6	328.3	288.3	260.9	589.2	1146.9	974.3	734.4	633.4
80.0	87.5°	35.8	88.4	138.9	130.5	134.7	393.5	814.4	692.3	519.8	389.3
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>
4029.8
4019.3
4097.1
4229.7
4379.1
4518.0
4612.7
4667.4
4698.9
4701.1
4669.5
4614.8
4507.5
4309.6
3987.7
3562.6
3074.4
2592.5
2192.7
1919.1
1742.4
1607.7
1506.7
1399.4
1275.2
1313.1
1384.6
1426.7
1378.3
1531.9
1418.3
1155.3
919.6
759.7
631.3
305.1
0.0

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