

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: P951442

Luminaire Tested: **GALN-SB5C-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-830-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34897 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

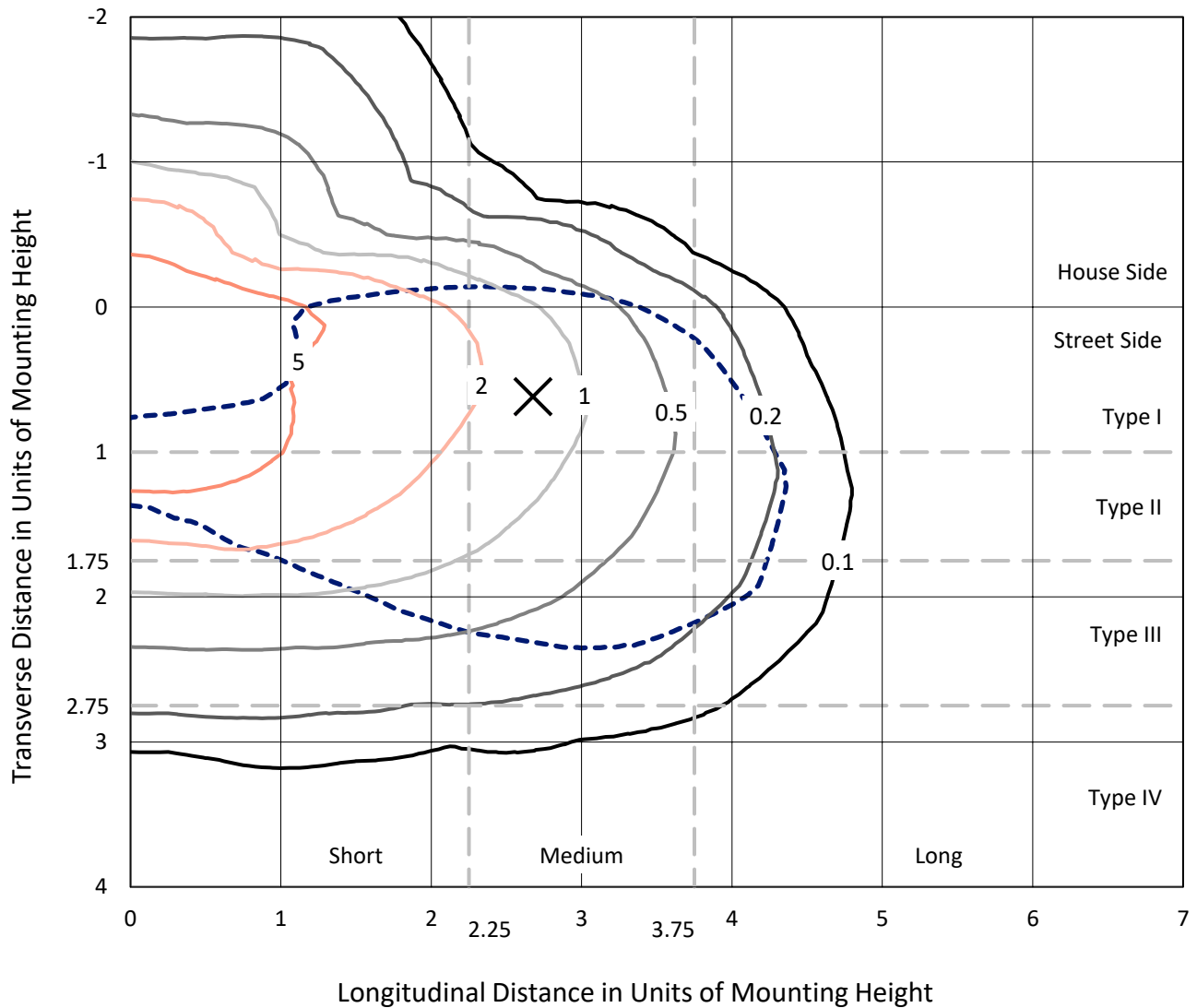
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

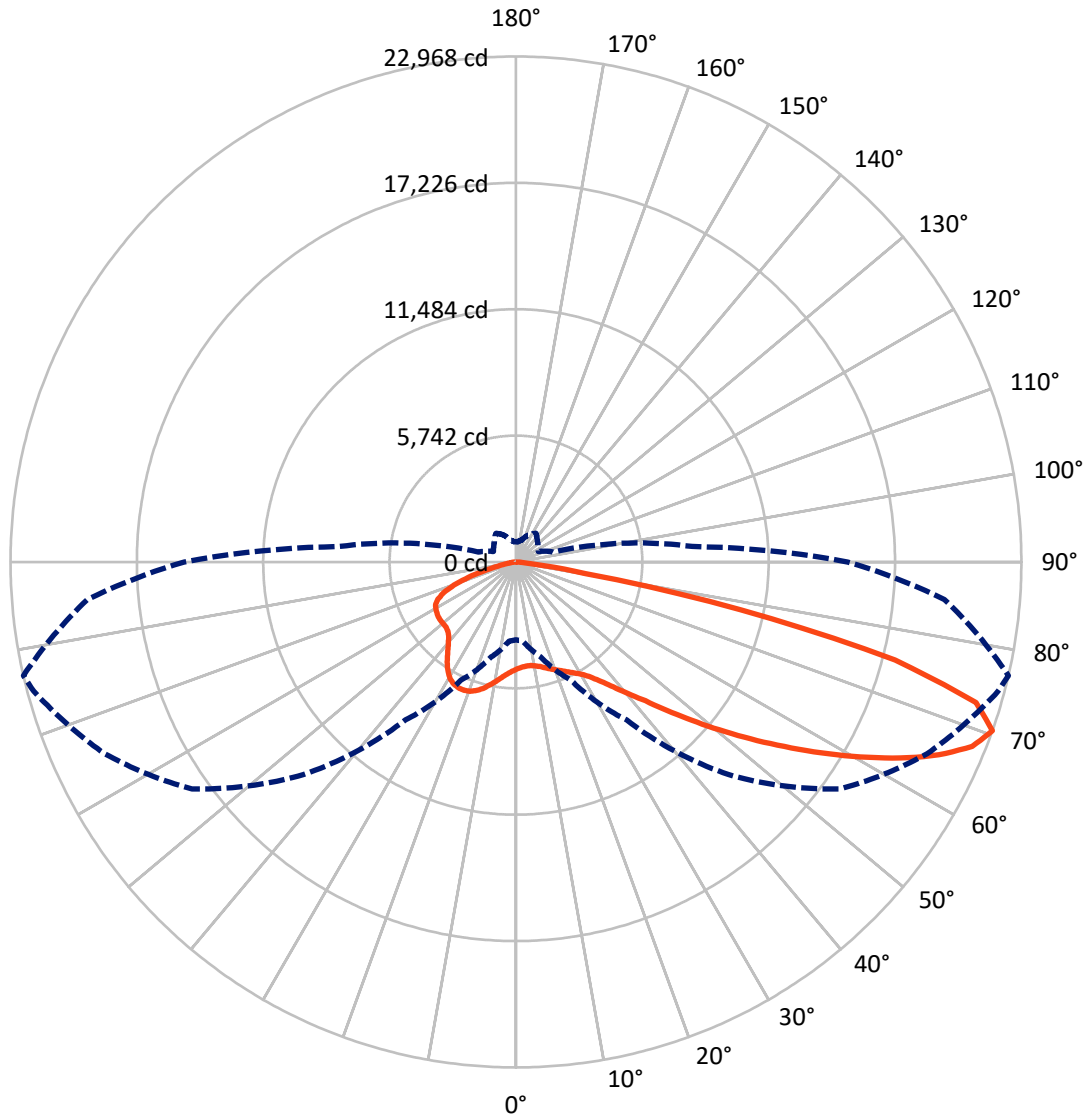
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7641.9	0.0	7641.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	27255.1	0.0	27255.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	34897.0	0.0	34897.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.3	1.3
10°-20°	1340.1	3.8
20°-30°	2291.7	6.6
30°-40°	3685.3	10.6
40°-50°	5753.7	16.5
50°-60°	7685.6	22.0
60°-70°	8191.7	23.5
70°-80°	5042.7	14.5
80°-90°	441.9	1.3
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°	34897.0	100.0
0°-180°	34897.0	100.0



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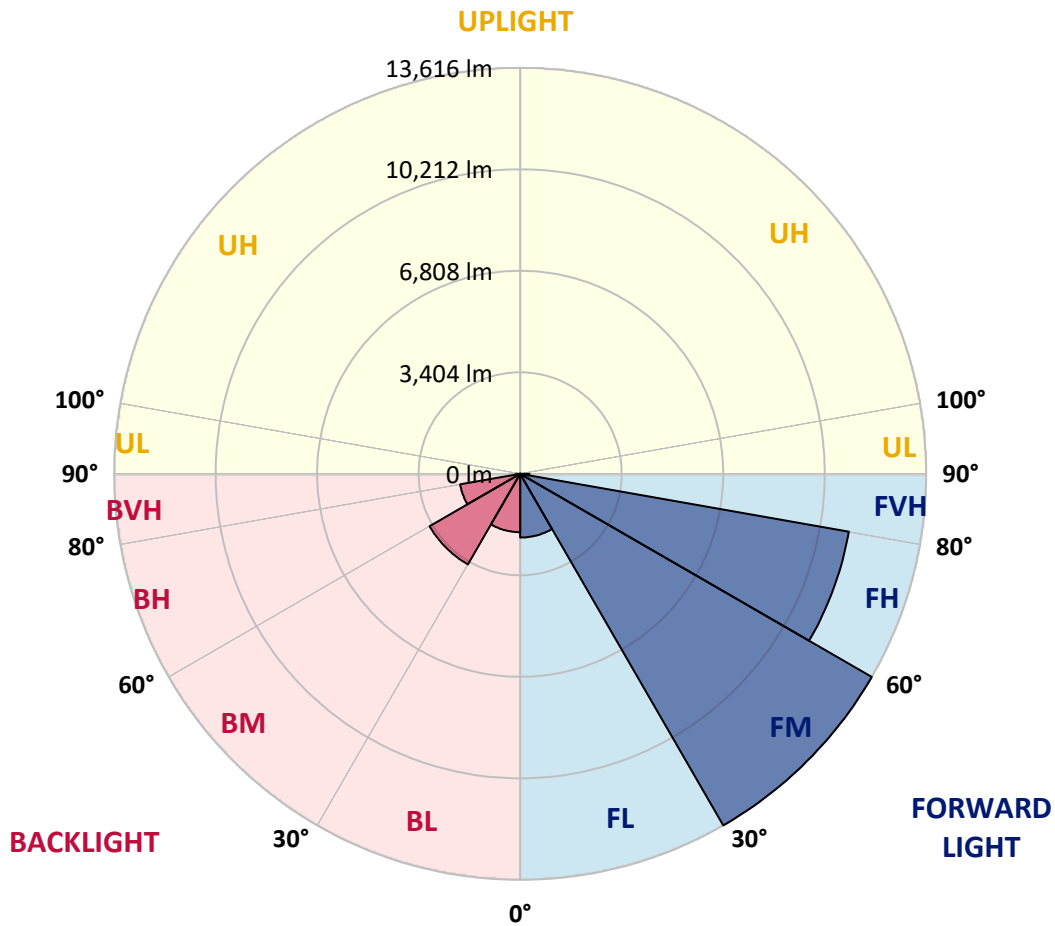
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2138.0	6.1			
FM (30°-60°)	13616.1	39.0			
FH (60°-80°)	11192.0	32.1			G4/12000
FVH (80°-90°)	309.0	0.9			G3/500
BL (0°-30°)	1958.1	5.6	B3/2500		
BM (30°-60°)	3508.6	10.1	B3/5000		
BH (60°-80°)	2042.3	5.9	B3/2500		G3/2500
BVH (80°-90°)	132.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4868.4	4868.4	4868.4	4868.4	4868.4	4868.4	4868.4	4868.4	4868.4	4868.4
2.5°	4487.8	4486.0	4509.2	4516.4	4559.3	4589.6	4646.8	4707.6	4786.2	4795.2
5°	4228.6	4228.6	4255.4	4284.0	4339.4	4400.2	4487.8	4593.2	4729.0	4750.5
7.5°	4008.8	4023.1	4046.3	4101.7	4166.1	4253.6	4387.7	4537.8	4716.5	4750.5
10°	3831.8	3847.9	3876.5	3921.2	4017.7	4139.3	4314.4	4507.4	4746.9	4800.5
12.5°	3776.4	3792.5	3808.6	3842.6	3931.9	4074.9	4284.0	4521.7	4820.2	4873.8
15°	3905.1	3924.8	3912.3	3903.3	3949.8	4080.3	4298.3	4573.6	4911.3	4988.2
17.5°	4201.8	4209.0	4180.4	4096.4	4089.2	4158.9	4366.2	4645.0	5025.7	5109.7
20°	4680.8	4668.3	4609.3	4443.1	4348.4	4334.1	4482.4	4752.3	5143.7	5233.0
22.5°	5331.3	5317.0	5199.1	4936.4	4725.5	4586.1	4650.4	4891.7	5275.9	5376.0
25°	6142.8	6123.1	5949.7	5592.3	5265.2	4920.3	4879.2	5075.8	5438.6	5531.5
27.5°	7090.0	7073.9	6886.2	6414.4	5942.6	5377.8	5163.3	5292.0	5608.4	5713.8
30°	8108.7	8155.2	7822.8	7315.2	6718.2	5974.8	5545.8	5558.3	5828.2	5922.9
32.5°	9306.2	9386.6	8986.3	8342.9	7527.9	6623.5	6028.4	5930.1	6148.1	6226.8
35°	10492.9	10584.1	10251.6	9540.3	8602.0	7388.5	6532.4	6357.2	6573.5	6659.3
37.5°	11518.8	11640.3	11468.7	10850.4	9751.2	8310.7	7190.1	6859.4	7097.1	7204.4
40°	12328.4	12514.3	12501.8	12115.7	11105.9	9429.5	8024.7	7479.6	7747.7	7863.9
42.5°	12986.1	13147.0	13286.4	13266.7	12519.6	10700.2	9005.9	8285.7	8489.4	8623.4
45°	13440.1	13611.6	13911.9	14235.4	13879.7	12060.3	10130.1	9241.8	9427.7	9629.7
47.5°	13845.8	14040.6	14430.2	14943.1	15034.3	13425.8	11361.5	10355.3	10525.1	10734.2
50°	13881.5	14049.5	14653.6	15381.0	15854.6	14737.6	12684.1	11604.6	11763.6	11987.0
52.5°	13018.3	13282.8	14337.3	15368.5	16231.7	15835.0	13997.7	12903.9	13082.6	13350.7
55°	10105.1	10492.9	13409.7	14889.5	16097.7	16544.5	15247.0	14285.4	14514.2	14794.8
57.5°	8703.9	8873.7	10644.8	14017.3	15486.5	16728.6	16301.4	15681.3	16049.4	16356.8
60°	7822.8	7964.0	9011.3	12660.8	14682.2	16437.3	17116.4	16982.4	17618.6	17985.0
62.5°	6879.1	7013.1	7965.7	10571.5	13652.7	15952.9	17631.2	18183.4	19227.2	19627.5
65°	5942.6	6057.0	6970.2	8882.6	12344.5	15468.6	17897.5	19221.8	20715.9	21130.6
67.5°	4898.8	4993.6	5856.8	7493.9	10753.8	14805.5	18029.7	20038.6	22011.7	22367.3
70°	3535.2	3608.4	4500.3	5926.5	8757.5	13665.3	17976.1	20617.6	22683.7	22967.9
72.5°	1671.1	1737.2	2784.5	3847.9	6185.6	11445.5	16891.2	20158.3	22001.0	21859.8
75°	891.8	949.0	1599.6	2110.7	3267.1	7846.0	13822.5	17364.9	18474.7	17788.4
77.5°	604.1	648.8	990.1	1267.2	1492.3	3724.6	8884.4	12022.8	11567.0	10433.9
80°	479.0	525.4	811.4	857.9	722.0	1345.8	3671.0	5565.5	3998.1	3197.4
82.5°	368.2	420.0	682.7	622.0	393.2	552.3	1068.8	1760.4	1024.1	779.2
85°	225.2	280.6	536.2	396.8	221.6	252.0	362.8	489.7	312.8	260.9
87.5°	114.4	160.9	271.7	144.8	100.1	59.0	96.5	96.5	82.2	71.5
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°
4868.4	0°	4868.4	4868.4	4868.4	4868.4	4868.4	4868.4	4868.4	4868.4	4868.4	4868.4
4843.4	2.5°	4886.3	4922.1	4982.8	5040.0	5084.7	5127.6	5170.5	5193.7	5200.9	5229.5
4870.2	5°	4943.5	5009.6	5127.6	5238.4	5308.1	5351.0	5381.4	5399.3	5402.8	5411.8
4943.5	7.5°	5049.0	5154.4	5318.8	5429.6	5481.5	5477.9	5465.4	5420.7	5402.8	5386.8
5050.7	10°	5197.3	5336.7	5538.7	5615.5	5583.3	5497.6	5386.8	5256.3	5195.5	5136.5
5197.3	12.5°	5381.4	5558.3	5756.7	5753.1	5594.1	5374.2	5116.9	4916.7	4789.8	4698.7
5377.8	15°	5604.8	5808.5	5960.5	5838.9	5490.4	5095.4	4718.3	4457.4	4343.0	4242.9
5560.1	17.5°	5835.3	6053.4	6123.1	5812.1	5229.5	4682.6	4255.4	4049.9	3937.3	3883.7
5756.7	20°	6060.5	6276.8	6219.6	5658.4	4832.7	4214.3	3833.6	3721.0	3697.8	3710.3
5947.9	22.5°	6298.2	6491.3	6239.3	5361.7	4326.9	3735.3	3526.2	3529.8	3581.6	3619.2
6148.1	25°	6541.3	6671.8	6187.4	4932.8	3783.6	3383.3	3331.4	3388.6	3490.5	3563.8
6373.3	27.5°	6775.4	6832.6	6074.8	4402.0	3317.1	3131.2	3140.2	3258.1	3411.8	3513.7
6646.8	30°	7040.0	6975.6	5858.6	3805.0	2993.6	2915.0	2990.1	3127.7	3281.4	3372.5
6991.7	32.5°	7338.4	7098.9	5515.4	3252.8	2764.9	2741.6	2865.0	2954.3	3022.2	3049.0
7449.2	35°	7710.2	7272.3	5075.8	2865.0	2559.3	2614.7	2732.7	2688.0	2661.2	2646.9
8064.0	37.5°	8192.7	7506.4	4561.0	2612.9	2393.1	2523.6	2571.8	2432.4	2327.0	2275.2
8809.3	40°	8773.6	7849.6	4066.0	2418.1	2287.7	2444.9	2360.9	2192.9	2058.9	1985.6
9647.5	42.5°	9418.8	8208.8	3649.6	2271.6	2228.7	2380.6	2205.5	2005.3	1789.0	1765.8
10646.6	45°	10096.1	8578.8	3365.4	2159.0	2200.1	2325.2	2116.1	1792.6	1638.9	1733.6
11649.2	47.5°	10773.5	8918.3	3193.8	2075.0	2185.8	2262.6	2037.5	1674.6	1565.6	1703.2
12723.4	50°	11527.7	9222.2	3117.0	2014.2	2169.7	2237.6	1919.5	1644.3	1488.8	1579.9
13835.0	52.5°	12276.6	9458.1	3059.8	1953.5	2146.5	2218.0	1862.3	1608.5	1395.8	1401.2
14953.9	55°	13023.6	9611.8	2997.2	1873.0	2094.6	2175.1	1856.9	1569.2	1326.1	1301.1
16137.0	57.5°	13820.7	9699.4	2920.4	1783.7	2005.3	2066.1	1851.6	1538.8	1304.7	1263.6
17347.0	60°	14632.2	9828.0	2820.3	1674.6	1885.5	1935.6	1839.1	1528.1	1292.2	1222.5
18487.2	62.5°	15359.6	9872.7	2700.5	1571.0	1731.8	1806.9	1812.3	1519.2	1258.2	1138.5
19434.5	65°	15836.8	9679.7	2491.4	1453.0	1565.6	1674.6	1760.4	1488.8	1197.5	1077.7
19902.7	67.5°	15817.1	9129.2	2164.4	1301.1	1404.8	1528.1	1685.4	1436.9	1124.2	1002.6
19548.9	70°	15080.8	8042.6	1749.7	1124.2	1227.8	1370.8	1588.9	1360.1	1036.6	920.4
17382.7	72.5°	12934.3	6294.7	1270.7	916.9	1022.3	1208.2	1463.8	1267.2	947.2	847.2
12846.7	75°	9240.0	3983.8	861.5	704.2	795.3	1024.1	1308.3	1158.1	865.0	850.7
6434.1	77.5°	4720.1	1903.4	570.1	514.7	554.0	807.8	1099.2	1034.8	877.5	702.4
1830.1	80°	1535.2	702.4	359.2	350.3	368.2	538.0	850.7	848.9	664.9	477.2
443.2	82.5°	489.7	302.0	234.1	225.2	216.3	337.8	593.4	672.0	448.6	302.0
159.1	85°	194.8	180.5	137.6	126.9	91.1	159.1	311.0	446.8	334.2	218.0
41.1	87.5°	71.5	71.5	37.5	26.8	19.7	53.6	84.0	134.0	191.2	112.6
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>
4868.4
5245.6
5426.1
5390.3
5118.7
4677.2
4232.2
3899.8
3705.0
3628.1
3583.4
3538.7
3394.0
3063.3
2661.2
2287.7
1991.0
1789.0
1783.7
1767.6
1647.8
1438.7
1319.0
1268.9
1227.8
1138.5
1077.7
1008.0
931.2
841.8
802.5
625.5
421.8
300.3
223.4
110.8
0.0

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