

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: P951463

Luminaire Tested: **GALN-SB5C-835-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951463
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-835-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36023 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

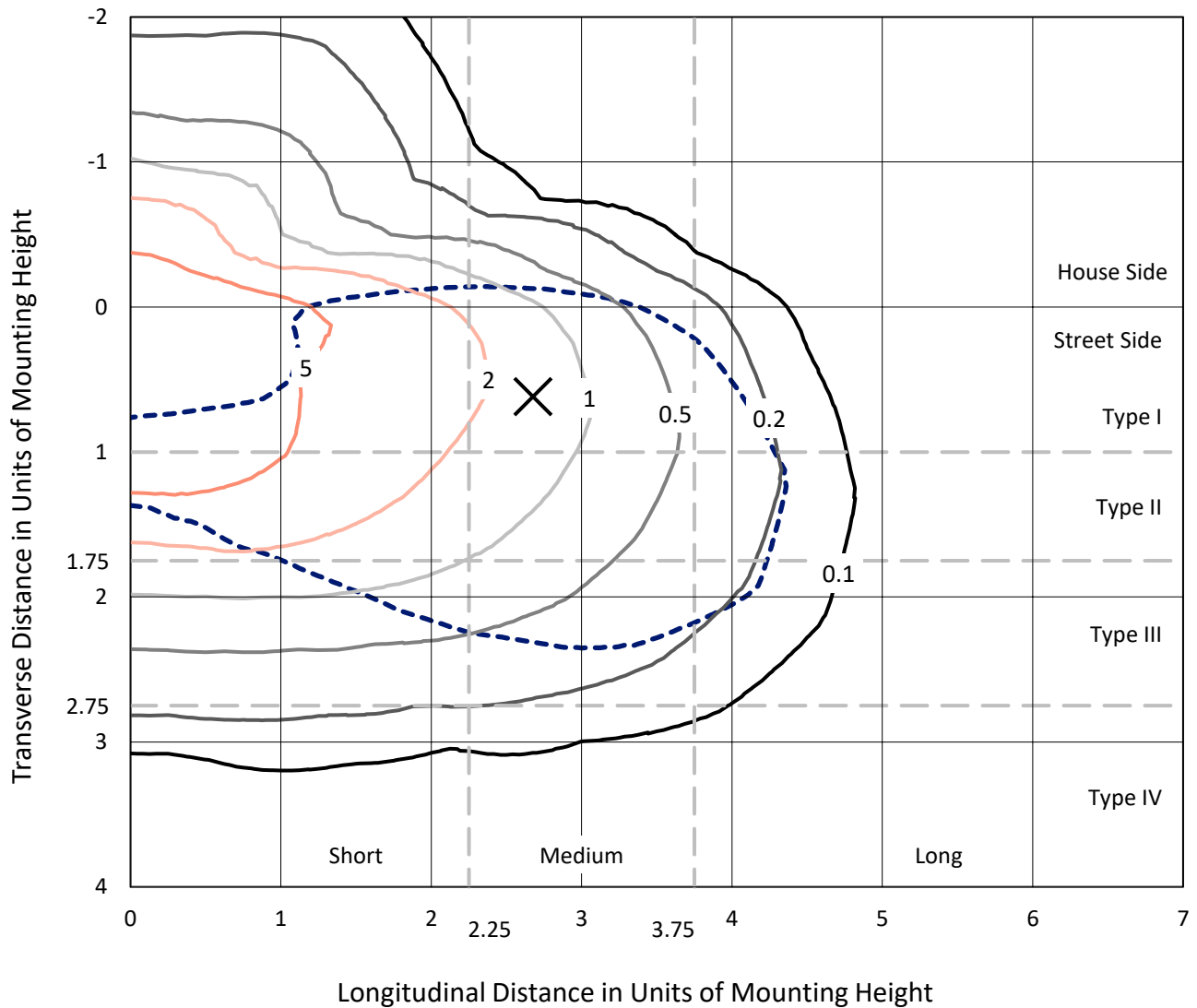
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

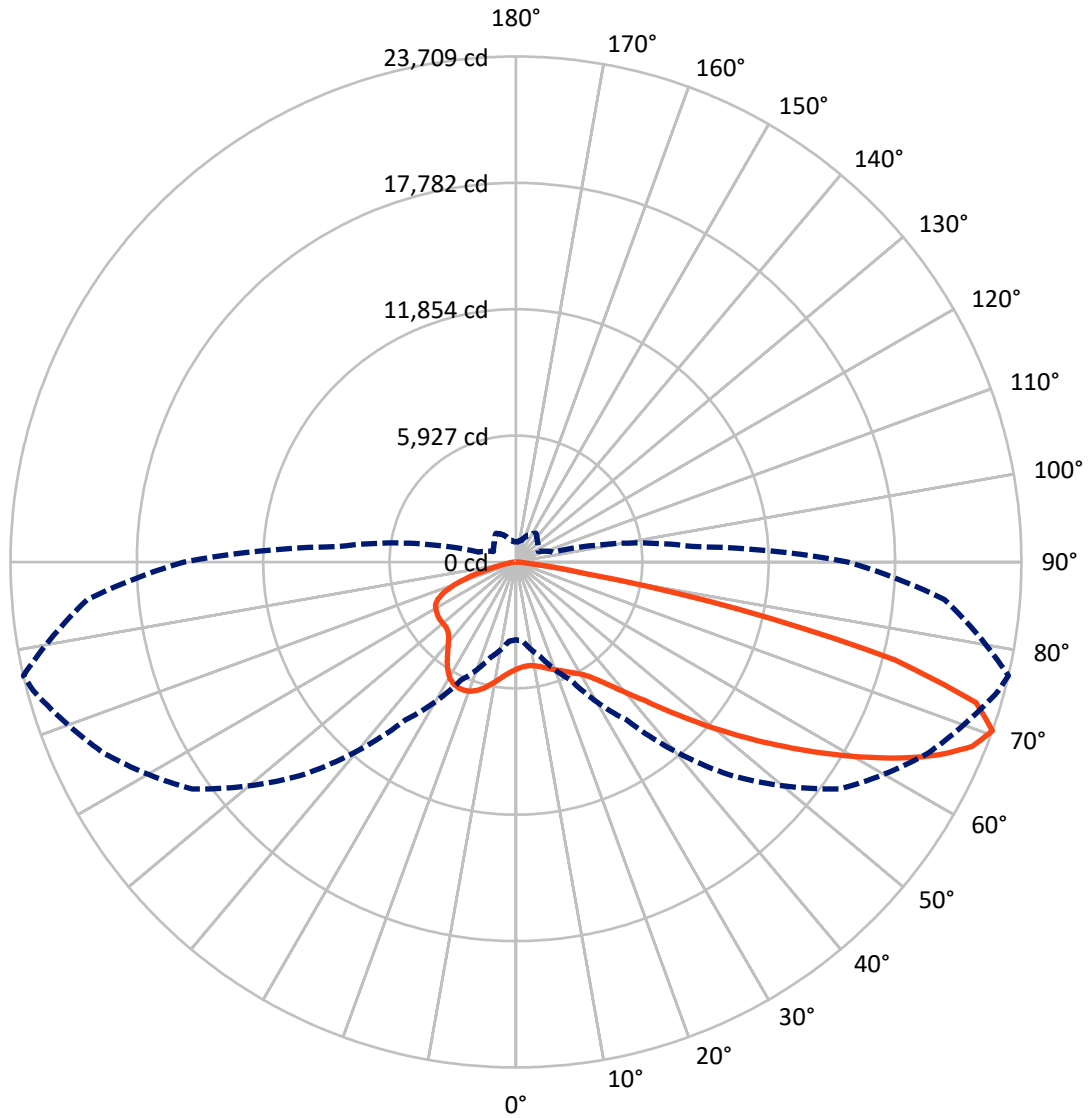
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	7888.5	0.0	7888.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	28134.5	0.0	28134.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	36023.0	0.0	36023.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.3	1.3
10°-20°	1383.3	3.8
20°-30°	2365.7	6.6
30°-40°	3804.2	10.6
40°-50°	5939.4	16.5
50°-60°	7933.6	22.0
60°-70°	8456.0	23.5
70°-80°	5205.4	14.5
80°-90°	456.1	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°	36023.0	100.0
0°-180°	36023.0	100.0

Coefficient of Utilization



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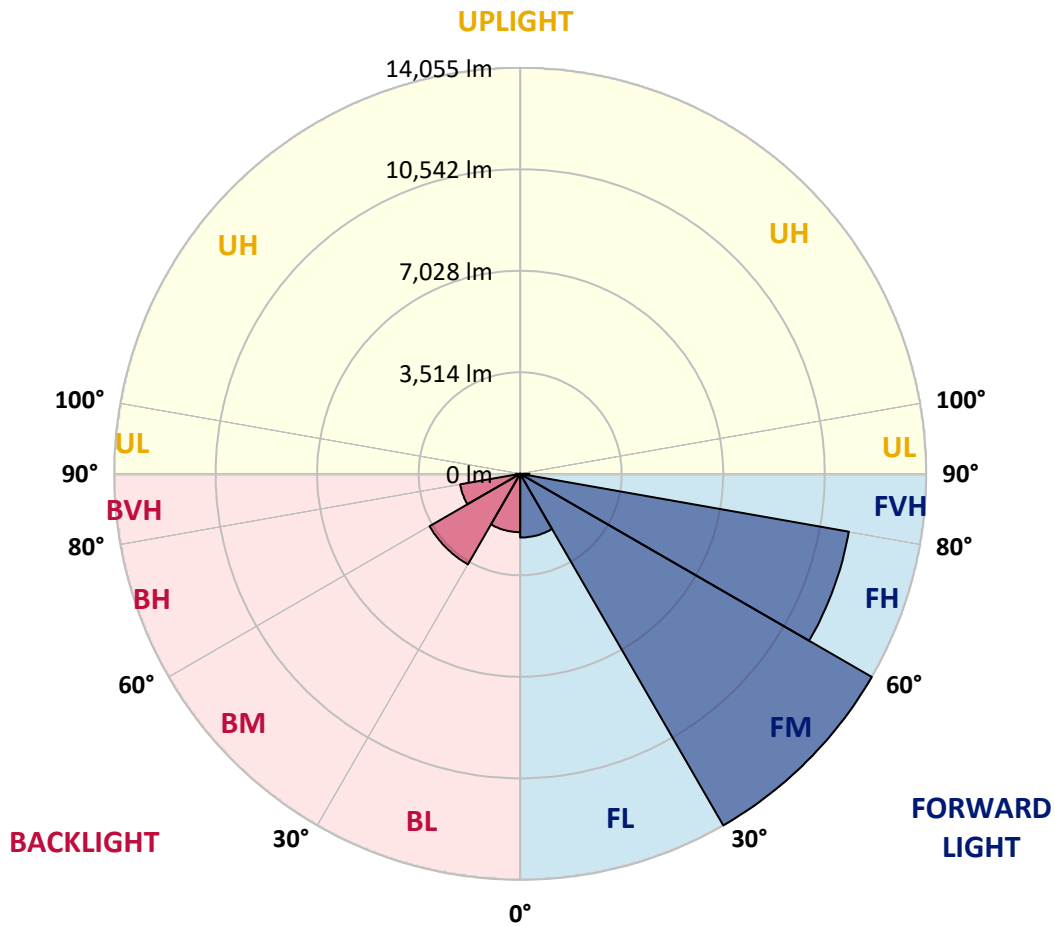
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2207.0	6.1			
FM (30°-60°)	14055.4	39.0			
FH (60°-80°)	11553.2	32.1			G4/12000
FVH (80°-90°)	319.0	0.9			G3/500
BL (0°-30°)	2021.3	5.6	B3/2500		
BM (30°-60°)	3621.8	10.1	B3/5000		
BH (60°-80°)	2108.2	5.9	B3/2500		G3/2500
BVH (80°-90°)	137.2	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°	5025.5	5025.5	5025.5	5025.5	5025.5	5025.5	5025.5	5025.5	5025.5	5025.5
2.5°	4632.6	4630.7	4654.7	4662.1	4706.4	4737.7	4796.8	4859.5	4940.7	4949.9
5°	4365.1	4365.1	4392.7	4422.3	4479.4	4542.2	4632.6	4741.4	4881.6	4903.8
7.5°	4138.1	4152.9	4176.9	4234.1	4300.5	4390.9	4529.3	4684.2	4868.7	4903.8
10°	3955.5	3972.1	4001.6	4047.7	4147.4	4272.8	4453.6	4652.9	4900.1	4955.4
12.5°	3898.3	3914.9	3931.5	3966.6	4058.8	4206.4	4422.3	4667.6	4975.7	5031.1
15°	4031.1	4051.4	4038.5	4029.3	4077.3	4211.9	4437.0	4721.1	5069.8	5149.1
17.5°	4337.4	4344.8	4315.2	4228.5	4221.2	4293.1	4507.1	4794.9	5187.9	5274.6
20°	4831.8	4818.9	4758.0	4586.4	4488.7	4473.9	4627.0	4905.6	5309.7	5401.9
22.5°	5503.4	5488.6	5366.8	5095.6	4877.9	4734.0	4800.5	5049.5	5446.2	5549.5
25°	6341.0	6320.7	6141.7	5772.7	5435.1	5079.0	5036.6	5239.5	5614.1	5710.0
27.5°	7318.8	7302.2	7108.4	6621.4	6134.3	5551.3	5329.9	5462.8	5789.3	5898.2
30°	8370.4	8418.3	8075.2	7551.2	6935.0	6167.5	5724.8	5737.7	6016.3	6114.0
32.5°	9606.5	9689.5	9276.2	8612.0	7770.8	6837.2	6222.9	6121.4	6346.5	6427.7
35°	10831.5	10925.6	10582.4	9848.1	8879.6	7626.9	6743.1	6562.3	6785.6	6874.1
37.5°	11890.5	12015.9	11838.8	11200.5	10065.8	8578.8	7422.1	7080.8	7326.1	7436.8
40°	12726.2	12918.1	12905.2	12506.7	11464.3	9733.7	8283.6	7721.0	7997.7	8117.6
42.5°	13405.1	13571.2	13715.1	13694.8	12923.6	11045.5	9296.5	8553.0	8763.3	8901.7
45°	13873.7	14050.8	14360.8	14694.7	14327.6	12449.5	10457.0	9540.0	9731.9	9940.4
47.5°	14292.5	14493.6	14895.8	15425.3	15519.4	13859.0	11728.1	10689.4	10864.7	11080.5
50°	14329.4	14502.8	15126.4	15877.3	16366.2	15213.1	13093.3	11979.0	12143.2	12373.8
52.5°	13438.3	13711.4	14799.9	15864.4	16755.5	16345.9	14449.3	13320.3	13504.7	13781.5
55°	10431.1	10831.5	13842.4	15370.0	16617.1	17078.3	15738.9	14746.4	14982.5	15272.2
57.5°	8984.7	9160.0	10988.3	14469.6	15986.2	17268.4	16827.4	16187.2	16567.3	16884.6
60°	8075.2	8220.9	9302.0	13069.3	15155.9	16967.6	17668.7	17530.3	18187.1	18565.3
62.5°	7101.1	7239.4	8222.8	10912.6	14093.3	16467.7	18200.0	18770.1	19847.6	20260.8
65°	6134.3	6252.4	7195.2	9169.2	12742.8	15967.7	18474.9	19842.0	21384.4	21812.4
67.5°	5056.9	5154.7	6045.8	7735.7	11100.8	15283.2	18611.5	20685.1	22721.9	23089.1
70°	3649.2	3724.9	4645.5	6117.7	9040.1	14106.2	18556.1	21282.9	23415.6	23708.9
72.5°	1725.0	1793.3	2874.4	3972.1	6385.2	11814.8	17436.3	20808.7	22710.9	22565.1
75°	920.6	979.6	1651.2	2178.8	3372.5	8099.2	14268.5	17925.2	19070.8	18362.4
77.5°	623.6	669.7	1022.1	1308.0	1540.5	3844.8	9171.1	12410.7	11940.3	10770.6
80°	494.4	542.4	837.6	885.6	745.3	1389.2	3789.4	5745.1	4127.1	3300.5
82.5°	380.1	433.6	704.8	642.0	405.9	570.1	1103.3	1817.2	1057.1	804.4
85°	232.5	289.7	553.5	409.6	228.8	260.1	374.5	505.5	322.9	269.4
87.5°	118.1	166.0	280.4	149.4	103.3	60.9	99.6	99.6	84.9	73.8
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°
5025.5	0°	5025.5	5025.5	5025.5	5025.5	5025.5	5025.5	5025.5	5025.5	5025.5	5025.5
4999.7	2.5°	5044.0	5080.9	5143.6	5202.6	5248.8	5293.0	5337.3	5361.3	5368.7	5398.2
5027.4	5°	5103.0	5171.3	5293.0	5407.4	5479.4	5523.7	5555.0	5573.5	5577.2	5586.4
5103.0	7.5°	5211.9	5320.7	5490.5	5604.8	5658.3	5654.7	5641.7	5595.6	5577.2	5560.6
5213.7	10°	5365.0	5508.9	5717.4	5796.7	5763.5	5674.9	5560.6	5425.9	5363.2	5302.3
5365.0	12.5°	5555.0	5737.7	5942.5	5938.8	5774.6	5547.6	5282.0	5075.3	4944.4	4850.3
5551.3	15°	5785.6	5996.0	6152.8	6027.3	5667.6	5259.8	4870.6	4601.2	4483.1	4379.8
5739.5	17.5°	6023.6	6248.7	6320.7	5999.7	5398.2	4833.7	4392.7	4180.6	4064.3	4009.0
5942.5	20°	6256.1	6479.3	6420.3	5841.0	4988.6	4350.3	3957.3	3841.1	3817.1	3830.0
6139.9	22.5°	6501.5	6700.7	6440.6	5534.7	4466.5	3855.9	3640.0	3643.7	3697.2	3735.9
6346.5	25°	6752.4	6887.1	6387.1	5092.0	3905.7	3492.4	3438.9	3498.0	3603.1	3678.8
6579.0	27.5°	6994.1	7053.1	6270.9	4544.0	3424.2	3232.3	3241.5	3363.3	3521.9	3627.1
6861.2	30°	7267.1	7200.7	6047.6	3927.8	3090.2	3009.0	3086.5	3228.6	3387.3	3481.3
7217.3	32.5°	7575.2	7328.0	5693.4	3357.7	2854.1	2830.1	2957.4	3049.6	3119.7	3147.4
7689.6	35°	7958.9	7506.9	5239.5	2957.4	2641.9	2699.1	2820.9	2774.7	2747.1	2732.3
8324.2	37.5°	8457.1	7748.6	4708.2	2697.3	2470.3	2605.0	2654.8	2510.9	2402.1	2348.6
9093.6	40°	9056.7	8102.8	4197.2	2496.2	2361.5	2523.8	2437.1	2263.7	2125.3	2049.7
9958.8	42.5°	9722.7	8473.7	3767.3	2344.9	2300.6	2457.4	2276.6	2070.0	1846.8	1822.8
10990.1	45°	10421.9	8855.6	3474.0	2228.7	2271.1	2400.2	2184.4	1850.4	1691.8	1789.6
12025.1	47.5°	11121.1	9206.1	3296.9	2141.9	2256.3	2335.7	2103.2	1728.7	1616.1	1758.2
13133.9	50°	11899.7	9519.7	3217.5	2079.2	2239.7	2309.8	1981.4	1697.3	1536.8	1630.9
14281.5	52.5°	12672.7	9763.3	3158.5	2016.5	2215.7	2289.5	1922.4	1660.4	1440.9	1446.4
15436.4	55°	13443.9	9921.9	3093.9	1933.5	2162.2	2245.3	1916.9	1619.8	1368.9	1343.1
16657.7	57.5°	14266.7	10012.3	3014.6	1841.2	2070.0	2132.7	1911.3	1588.5	1346.8	1304.4
17906.7	60°	15104.3	10145.2	2911.3	1728.7	1946.4	1998.0	1898.4	1577.4	1333.9	1261.9
19083.8	62.5°	15855.2	10191.3	2787.7	1621.7	1787.7	1865.2	1870.7	1568.2	1298.8	1175.2
20061.6	65°	16347.8	9992.0	2571.8	1499.9	1616.1	1728.7	1817.2	1536.8	1236.1	1112.5
20544.9	67.5°	16327.5	9423.8	2234.2	1343.1	1450.1	1577.4	1739.8	1483.3	1160.4	1035.0
20179.6	70°	15567.4	8302.1	1806.2	1160.4	1267.5	1415.0	1640.1	1404.0	1070.0	950.1
17943.6	72.5°	13351.6	6497.8	1311.7	946.4	1055.3	1247.2	1511.0	1308.0	977.8	874.5
13261.2	75°	9538.2	4112.3	889.2	726.9	821.0	1057.1	1350.5	1195.5	892.9	878.2
6641.7	77.5°	4872.4	1964.8	588.5	531.3	571.9	833.9	1134.6	1068.2	905.9	725.0
1889.2	80°	1584.8	725.0	370.8	361.6	380.1	555.3	878.2	876.3	686.3	492.6
457.5	82.5°	505.5	311.8	241.7	232.5	223.2	348.7	612.5	693.7	463.1	311.8
164.2	85°	201.1	186.3	142.1	131.0	94.1	164.2	321.0	461.2	345.0	225.1
42.4	87.5°	73.8	73.8	38.7	27.7	20.3	55.3	86.7	138.4	197.4	116.2
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>
5025.5
5414.8
5601.1
5564.3
5283.8
4828.1
4368.7
4025.6
3824.5
3745.2
3699.0
3652.9
3503.5
3162.2
2747.1
2361.5
2055.2
1846.8
1841.2
1824.6
1701.0
1485.2
1361.5
1309.9
1267.5
1175.2
1112.5
1040.5
961.2
869.0
828.4
645.7
435.4
309.9
230.6
114.4
0.0

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