

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: P941865

Luminaire Tested: **GALN-SB5C-835-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
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-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34768 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

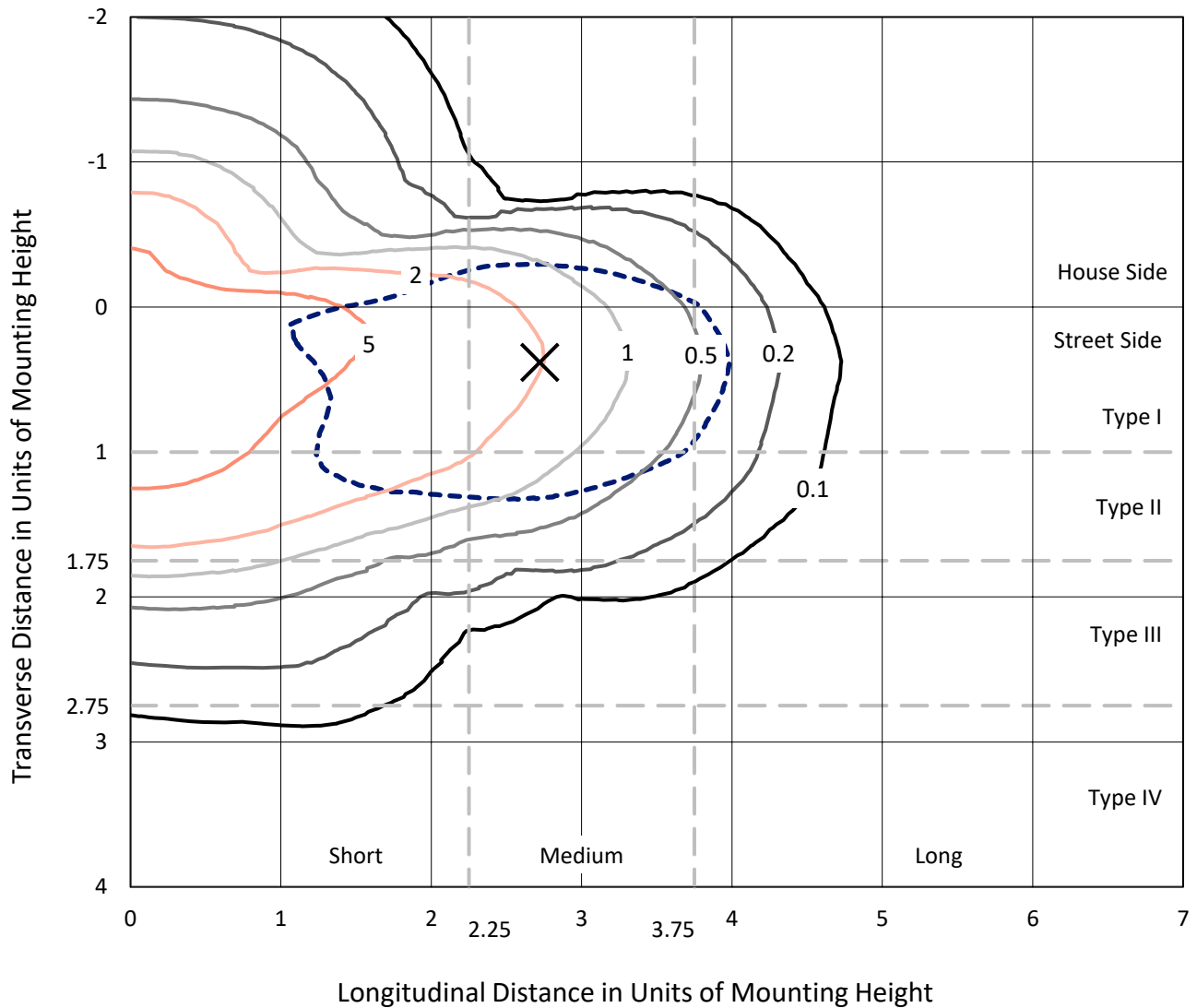
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

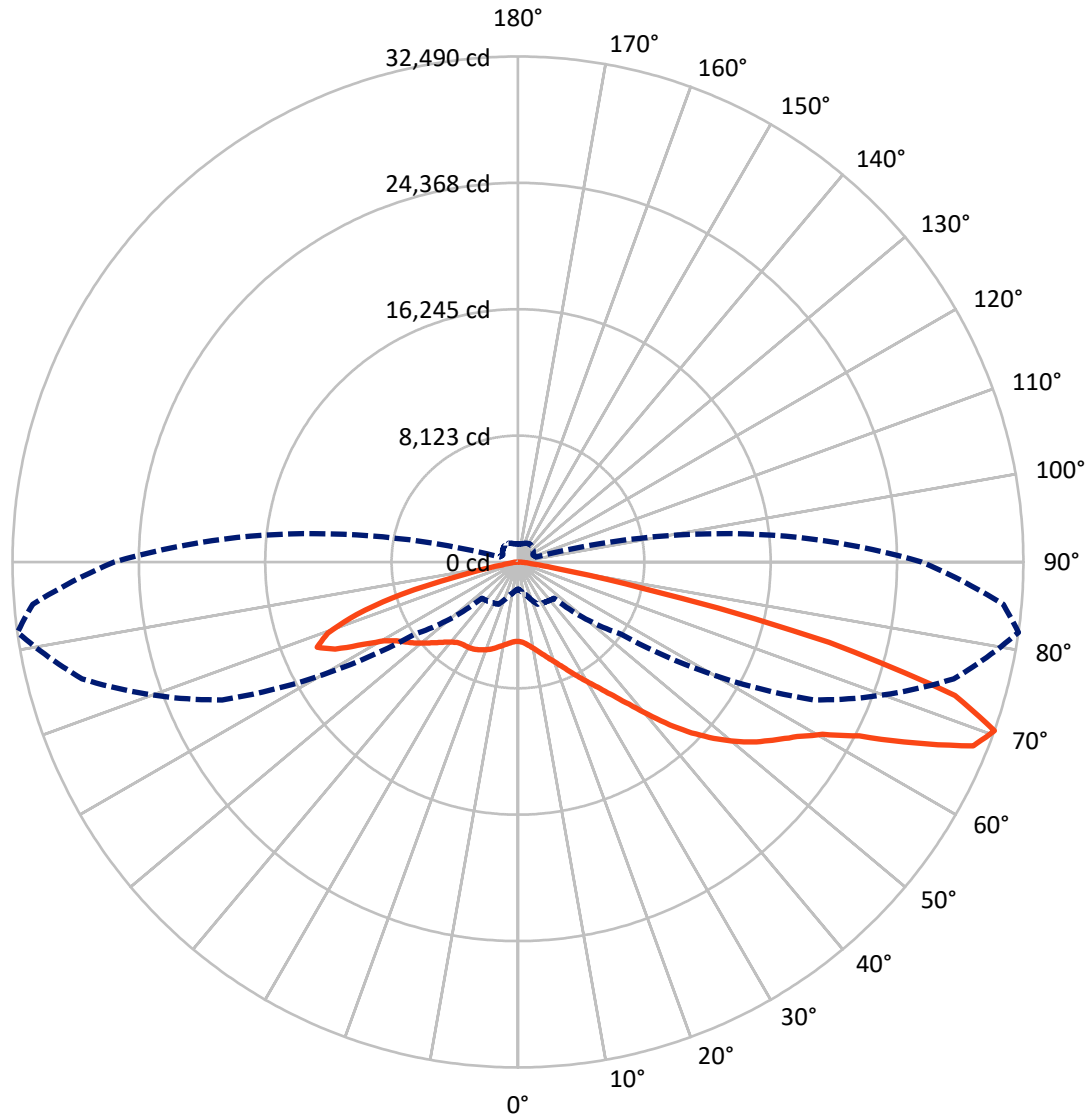
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8571.2	0.0	8571.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	26196.8	0.0	26196.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	34768.0	0.0	34768.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.3	1.4
10°-20°	1382.8	4.0
20°-30°	2313.2	6.7
30°-40°	3613.9	10.4
40°-50°	5755.5	16.6
50°-60°	8009.5	23.0
60°-70°	8378.3	24.1
70°-80°	4378.9	12.6
80°-90°	454.7	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°	34768.0	100.0
0°-180°	34768.0	100.0



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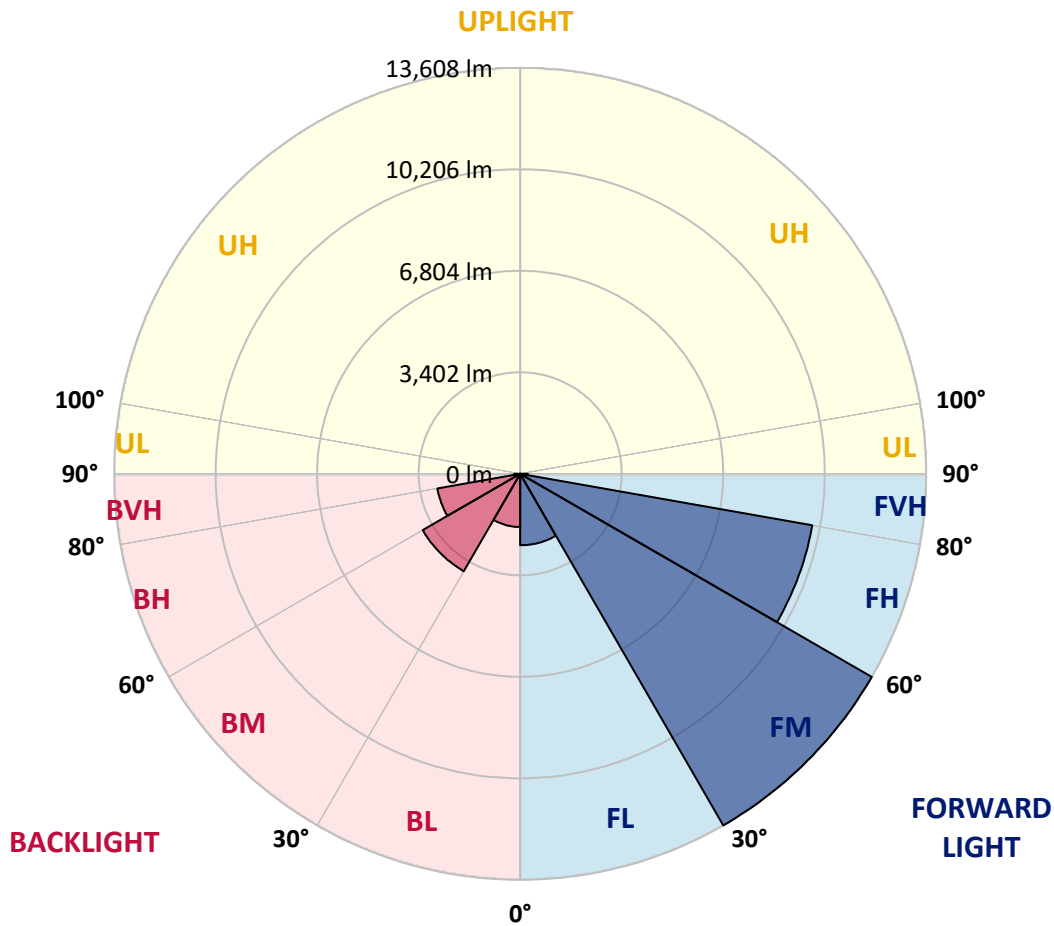
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2394.2	6.9			
FM (30°-60°)	13607.9	39.1			
FH (60°-80°)	9940.3	28.6			G4/12000
FVH (80°-90°)	254.5	0.7			G3/500
BL (0°-30°)	1783.1	5.1	B3/2500		
BM (30°-60°)	3771.0	10.8	B3/5000		
BH (60°-80°)	2816.9	8.1	B4/5000		G4/5000
BVH (80°-90°)	200.2	0.6			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5097.4	5097.4	5097.4	5097.4	5097.4	5097.4	5097.4	5097.4	5097.4	5097.4
2.5°	5219.2	5248.7	5239.5	5230.3	5230.3	5217.3	5215.5	5197.0	5182.3	5158.3
5°	5285.6	5317.0	5313.3	5320.7	5344.6	5350.2	5355.7	5344.6	5315.1	5285.6
7.5°	5226.6	5261.6	5272.7	5317.0	5390.8	5457.2	5507.0	5527.3	5499.6	5457.2
10°	5027.3	5066.1	5104.8	5210.0	5340.9	5497.8	5630.6	5709.9	5704.4	5663.8
12.5°	4623.3	4663.9	4746.9	4951.7	5191.5	5468.2	5715.5	5881.5	5938.7	5909.2
15°	4300.4	4335.5	4398.2	4608.5	4920.3	5340.9	5746.8	6069.7	6215.4	6198.8
17.5°	4291.2	4306.0	4344.7	4444.3	4684.2	5141.7	5713.6	6254.2	6532.7	6530.9
20°	4453.6	4459.1	4481.2	4501.5	4638.0	4990.4	5628.8	6407.3	6888.8	6888.8
22.5°	4678.6	4674.9	4697.1	4678.6	4745.1	4977.5	5575.2	6542.0	7285.5	7315.0
25°	5016.2	4997.8	4992.3	4949.8	4962.7	5097.4	5634.3	6695.1	7755.9	7816.8
27.5°	5466.4	5436.9	5416.6	5318.8	5285.6	5344.6	5815.1	6879.6	8279.9	8385.0
30°	6053.1	5999.6	5970.1	5800.3	5680.4	5689.6	6088.1	7125.0	8827.8	8997.5
32.5°	6853.8	6770.7	6691.4	6412.8	6193.3	6121.3	6440.5	7464.4	9421.8	9693.0
35°	7750.4	7684.0	7599.1	7169.2	6831.6	6665.6	6916.5	7938.5	10117.4	10547.2
37.5°	8613.8	8556.6	8597.2	8017.9	7582.5	7340.8	7540.1	8575.0	10975.2	11609.9
40°	9506.7	9462.4	9468.0	8914.5	8407.2	8136.0	8296.5	9373.9	11958.6	12873.6
42.5°	10477.1	10443.9	10333.2	9842.5	9272.4	9019.7	9167.2	10296.3	13013.8	14312.6
45°	11563.8	11543.5	11440.1	10877.5	10224.4	9940.3	10139.5	11314.7	14074.6	15666.8
47.5°	12502.8	12519.4	12506.5	12032.4	11355.3	10938.3	11176.3	12377.3	15061.7	16939.8
50°	12954.8	13041.5	13168.8	13021.2	12600.6	12176.3	12222.4	13403.1	16002.6	18133.4
52.5°	12718.7	12882.8	13229.7	13465.8	13628.2	13539.6	13416.0	14421.5	16888.1	19210.8
55°	11838.6	12069.3	12644.9	13214.9	14043.3	14687.1	14849.5	15550.6	17751.5	20159.1
57.5°	10235.4	10609.9	11126.5	12279.6	13674.3	15242.5	16521.0	17116.9	18666.6	21171.9
60°	7486.6	7988.4	8630.4	10346.1	12382.9	14945.4	17943.4	19522.6	19967.2	22483.6
62.5°	4791.2	5101.1	5691.5	7307.6	9648.8	13423.4	18378.8	22529.8	22171.9	24634.8
65°	3280.2	3479.5	4020.0	4927.7	6237.6	9991.9	17212.8	24784.2	25673.5	28044.1
67.5°	2383.6	2534.9	2996.1	3791.2	4064.3	5912.9	13357.0	24680.9	29077.3	31556.8
70°	1737.9	1844.9	2232.3	2996.1	3127.1	3289.4	8091.7	20980.1	29003.5	32490.3
72.5°	1287.7	1361.5	1621.7	2324.6	2531.2	2221.2	4005.3	15248.0	24922.6	29387.2
75°	931.7	987.0	1178.9	1778.5	2025.7	1691.8	1998.0	8910.8	17384.4	20672.0
77.5°	712.1	754.6	880.0	1302.5	1621.7	1269.3	1239.8	4099.3	8243.0	8283.5
80°	571.9	599.6	667.8	916.9	1243.5	950.1	808.1	1654.9	2605.0	2204.6
82.5°	420.6	466.8	564.5	643.9	889.2	654.9	492.6	835.7	990.7	852.3
85°	239.8	271.2	341.3	461.2	568.2	400.3	282.3	370.8	461.2	378.2
87.5°	84.9	110.7	119.9	180.8	247.2	166.0	108.8	107.0	151.3	112.5
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°
5097.4	0°	5097.4	5097.4	5097.4	5097.4	5097.4	5097.4	5097.4	5097.4	5097.4	5097.4
5152.8	2.5°	5134.3	5125.1	5088.2	5038.4	4986.7	4936.9	4920.3	4885.3	4861.3	4848.4
5272.7	5°	5237.6	5208.1	5121.4	5010.7	4894.5	4769.0	4680.5	4599.3	4540.3	4484.9
5436.9	7.5°	5385.2	5333.6	5184.1	4990.4	4783.8	4575.3	4420.3	4302.3	4222.9	4171.3
5628.8	10°	5556.8	5477.5	5248.7	4959.1	4639.9	4341.0	4158.4	4056.9	4007.1	3979.4
5848.3	12.5°	5754.2	5641.7	5315.1	4887.1	4420.3	4079.0	3953.6	3924.1	3925.9	3927.8
6125.0	15°	5997.7	5840.9	5368.6	4730.3	4134.4	3878.0	3855.8	3903.8	3953.6	3977.6
6438.7	17.5°	6272.6	6051.2	5377.8	4472.0	3854.0	3748.8	3818.9	3922.2	3997.9	4031.1
6789.2	20°	6567.8	6265.2	5311.4	4106.7	3623.4	3643.7	3769.1	3901.9	3985.0	4027.4
7189.5	22.5°	6905.4	6494.0	5152.8	3723.0	3435.2	3529.3	3676.9	3806.0	3892.7	3935.1
7660.0	25°	7291.0	6750.4	4903.7	3400.1	3272.8	3400.1	3547.7	3654.7	3724.8	3763.6
8185.8	27.5°	7719.0	7018.0	4571.6	3143.7	3130.8	3267.3	3389.1	3472.1	3509.0	3538.5
8744.8	30°	8148.9	7261.5	4169.4	2950.0	3007.2	3136.3	3223.0	3259.9	3271.0	3276.5
9368.3	32.5°	8613.8	7471.8	3747.0	2789.5	2889.1	3009.0	3060.7	3077.3	3025.6	2990.6
10124.7	35°	9176.5	7696.9	3333.7	2662.2	2772.9	2876.2	2892.8	2878.0	2817.1	2745.2
11073.0	37.5°	9872.0	7977.3	3003.5	2571.8	2664.0	2732.3	2712.0	2708.3	2713.8	2629.0
12213.2	40°	10724.3	8342.6	2761.8	2501.7	2575.5	2590.2	2533.0	2564.4	2592.1	2462.9
13464.0	42.5°	11670.8	8783.5	2608.7	2453.7	2501.7	2466.6	2378.1	2413.1	2409.4	2239.7
14720.4	45°	12635.6	9263.2	2555.2	2418.6	2433.4	2363.3	2265.5	2274.7	2197.3	2044.1
15925.1	47.5°	13595.0	9777.9	2588.4	2389.1	2348.5	2269.2	2193.6	2153.0	2038.6	1924.2
17080.0	50°	14535.9	10318.5	2710.1	2330.1	2232.3	2186.2	2130.8	2058.9	1937.1	1839.4
18172.1	52.5°	15408.5	10862.7	2846.7	2232.3	2086.6	2114.2	2079.2	1996.2	1876.3	1776.6
19205.3	55°	16235.0	11406.9	2900.2	2097.6	1950.0	2051.5	2031.2	1878.1	1734.2	1653.0
20286.4	57.5°	17135.3	12061.9	2841.1	1926.1	1839.4	1979.6	1902.1	1732.3	1649.3	1588.4
21694.0	60°	18382.5	13089.5	2713.8	1713.9	1734.2	1872.6	1739.7	1669.6	1579.2	1511.0
23804.6	62.5°	20454.3	15006.3	2509.0	1503.6	1610.6	1713.9	1662.2	1592.1	1499.9	1433.5
27413.2	65°	23516.8	17670.3	2123.5	1339.4	1472.2	1558.9	1579.2	1509.1	1413.2	1343.1
30575.3	67.5°	26099.6	19341.8	1606.9	1202.9	1330.2	1433.5	1490.7	1422.4	1320.9	1252.7
31315.1	70°	25957.6	18127.9	1226.9	1068.2	1204.7	1309.9	1383.7	1330.2	1221.3	1156.7
28444.5	72.5°	23055.6	15165.0	992.5	931.7	1077.4	1180.7	1269.3	1228.7	1118.0	1055.3
20838.0	75°	16937.9	10764.9	793.3	793.3	918.8	1046.1	1143.8	1118.0	1016.5	972.3
8748.5	77.5°	7139.7	4516.3	621.7	658.6	763.8	898.5	1020.2	1029.4	940.9	996.2
2313.5	80°	1898.4	1245.3	474.1	518.4	599.6	741.6	887.4	883.7	787.8	736.1
859.7	82.5°	723.2	490.7	337.6	365.3	433.5	568.2	702.9	725.0	629.1	544.2
337.6	85°	278.6	210.3	208.5	219.5	252.7	376.4	531.3	549.8	474.1	402.2
94.1	87.5°	72.0	62.7	77.5	73.8	116.2	201.1	304.4	315.5	289.6	167.9
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>
5097.4
4863.1
4507.1
4182.4
3986.8
3931.5
3975.7
4038.5
4038.5
3946.2
3774.6
3549.6
3289.4
3001.6
2748.9
2634.5
2466.6
2237.8
2049.7
1924.2
1832.0
1778.5
1645.6
1582.9
1507.3
1433.5
1346.8
1254.5
1162.3
1055.3
959.3
904.0
684.5
544.2
415.1
239.8
0.0

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