

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: P957499

Luminaire Tested: **GALN-SB9D-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9D-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 82780 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

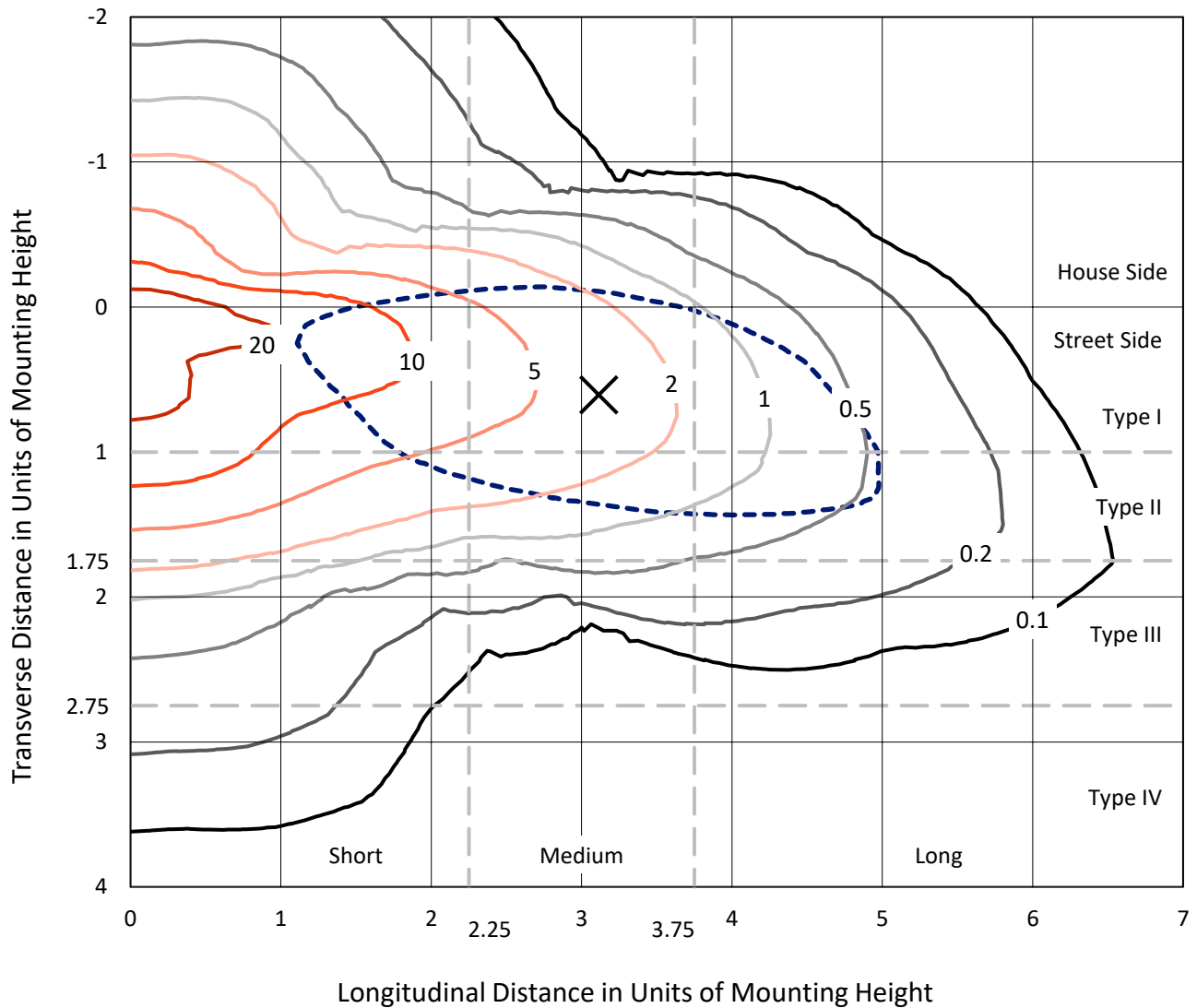
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

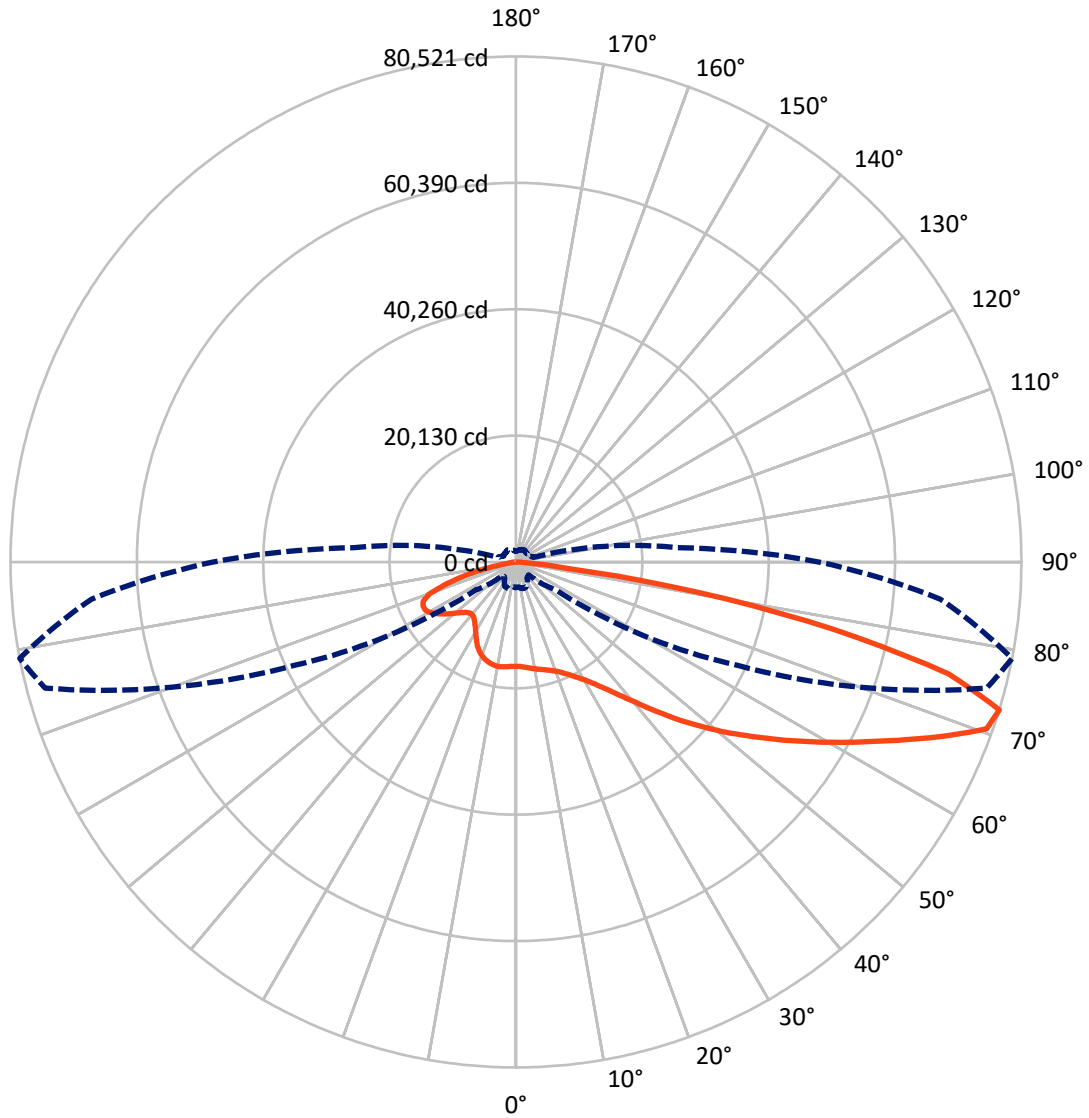
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18216.2	0.0	18216.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	64563.8	0.0	64563.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	82780.0	0.0	82780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1508.4	1.8
10°-20°	3943.6	4.8
20°-30°	6363.4	7.7
30°-40°	9550.6	11.5
40°-50°	13548.0	16.4
50°-60°	17109.4	20.7
60°-70°	17376.9	21.0
70°-80°	11843.1	14.3
80°-90°	1536.5	1.9
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°	82780.0	100.0
0°-180°	82780.0	100.0

Coefficient of Utilization



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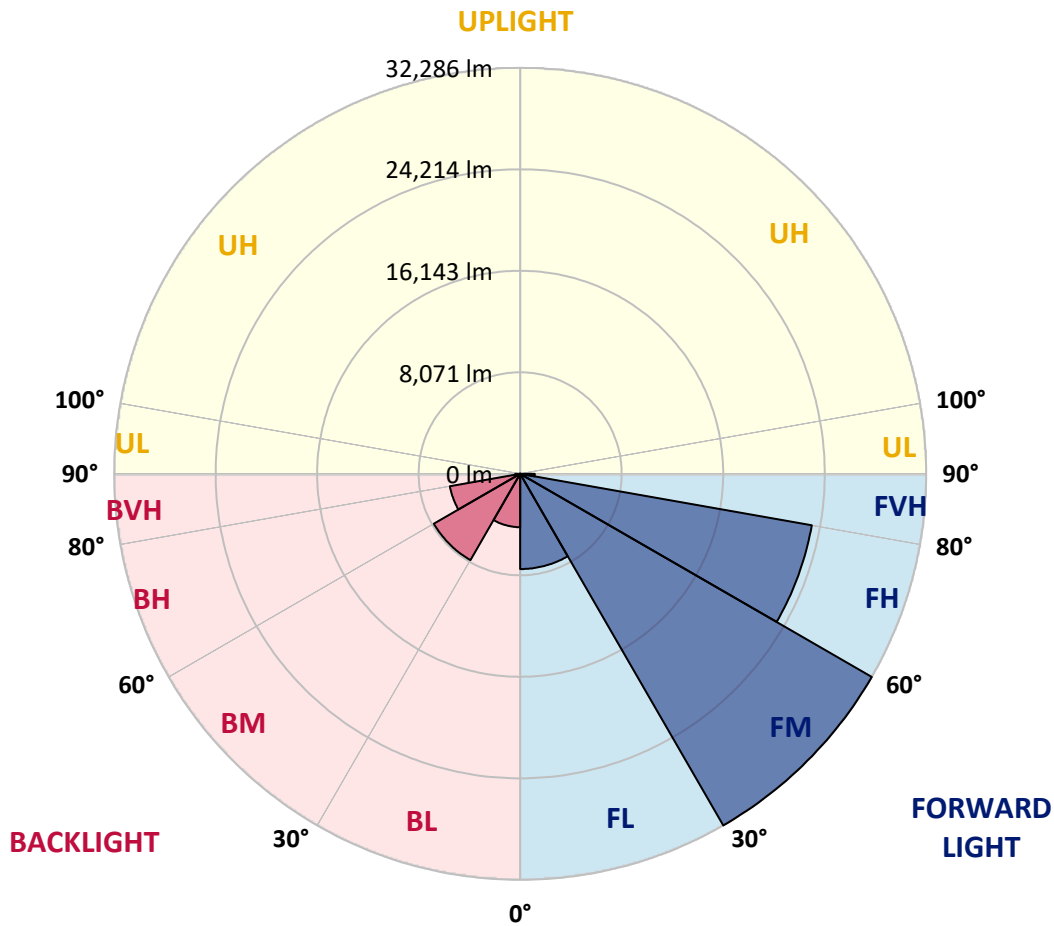
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7572.4	9.1			
FM (30°-60°)	32285.9	39.0			
FH (60°-80°)	23548.1	28.4			G5
FVH (80°-90°)	1157.5	1.4			G5
BL (0°-30°)	4243.1	5.1	B4/5000		
BM (30°-60°)	7922.1	9.6	B4/8500		
BH (60°-80°)	5671.9	6.9	B5		G5
BVH (80°-90°)	379.1	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	16617.3	16617.3	16617.3	16617.3	16617.3	16617.3	16617.3	16617.3	16617.3	16617.3
2.5°	16626.1	16547.2	16595.4	16577.9	16599.8	16626.1	16634.8	16647.9	16691.7	16687.4
5°	16591.0	16512.2	16577.9	16556.0	16612.9	16674.2	16726.8	16774.9	16845.0	16875.6
7.5°	16516.6	16464.0	16529.7	16595.4	16700.5	16792.4	16866.9	16976.4	17077.1	17094.6
10°	16083.1	16043.7	16196.9	16367.7	16656.7	16906.3	17068.3	17195.3	17304.8	17322.3
12.5°	15632.1	15583.9	15754.7	15986.8	16455.3	16906.3	17247.8	17414.2	17510.6	17567.5
15°	15557.6	15518.2	15614.6	15816.0	16205.7	16788.1	17370.4	17677.0	17760.1	17825.8
17.5°	15916.7	15842.3	15881.7	15951.7	16179.4	16678.6	17466.8	17974.7	18101.7	18171.7
20°	16748.7	16643.6	16582.3	16442.1	16402.7	16696.1	17458.0	18333.8	18500.2	18587.7
22.5°	17856.5	17786.4	17655.1	17300.4	16915.1	16910.7	17624.4	18793.5	19104.4	19187.6
25°	19196.4	19091.3	18924.9	18443.2	17703.2	17335.4	17904.6	19380.3	19901.3	19923.2
27.5°	20737.7	20580.1	20352.4	19717.4	18719.1	18001.0	18333.8	20054.6	20816.5	20807.7
30°	22362.2	22204.6	21963.7	21193.1	19936.4	18898.6	18929.3	20781.5	21902.4	21854.3
32.5°	23548.8	23430.6	23382.4	22786.9	21337.6	19958.3	19612.4	21587.2	23242.3	23198.5
35°	24459.6	24306.4	24363.3	24061.1	22865.8	21144.9	20448.7	22546.1	24871.2	24866.8
37.5°	25361.6	25225.9	25274.1	25072.6	24280.1	22651.2	21468.9	23719.6	26889.8	26986.1
40°	26184.8	26040.3	26233.0	26044.7	25379.1	24253.8	22629.3	25046.4	29228.1	29412.0
42.5°	26679.6	26565.8	26885.4	26889.8	26333.7	25606.8	23903.5	26508.9	31934.1	32345.7
45°	26850.4	26811.0	27292.7	27393.4	27178.8	26390.6	25050.7	28102.7	34850.3	35586.0
47.5°	26666.5	26592.1	27257.6	27629.8	27800.6	26758.4	26000.9	29827.9	37827.9	38905.1
50°	25738.2	25593.7	26583.3	27367.1	27975.7	26999.3	26959.9	31820.3	41212.7	42390.5
52.5°	24069.9	23960.4	25085.8	26447.6	27590.4	27117.5	28037.0	33996.5	44426.6	45950.4
55°	21937.5	21793.0	23032.1	24809.9	26631.5	27078.1	29114.2	36431.1	48218.6	49764.3
57.5°	18557.1	18268.1	19835.7	21937.5	25068.3	27029.9	30235.2	38852.5	52071.9	53924.1
60°	13626.6	13197.5	15119.8	17611.3	22011.9	26561.4	31623.2	41567.3	56695.9	58364.2
62.5°	7934.3	7684.7	8941.4	11266.5	16591.0	23802.8	32402.6	44724.4	61241.0	62992.5
65°	6160.9	6090.8	6200.3	6379.8	9234.8	17821.4	29998.7	47802.6	67020.9	68247.0
67.5°	5635.4	5582.9	5631.1	5293.9	4685.2	9926.6	23732.7	48582.1	73212.4	73956.8
70°	5009.3	4948.0	5105.6	4816.6	3686.9	4514.5	15334.3	45753.4	78138.5	79535.3
72.5°	4081.0	4010.9	4378.7	4247.4	3104.5	2898.7	7702.2	39032.0	77621.8	80520.6
75°	3135.2	3095.8	3533.6	3643.1	2530.9	2281.3	3695.7	29013.5	68308.3	71228.9
77.5°	2434.6	2403.9	2627.2	3025.7	2040.5	1769.0	2272.6	18403.8	51476.4	51988.7
80°	1825.9	1738.4	1944.2	2342.6	1589.5	1291.7	1541.3	10732.3	32538.4	29495.2
82.5°	1142.8	1099.1	1269.8	1563.2	1121.0	888.9	1002.7	5928.8	13039.9	7680.3
85°	652.4	634.9	691.8	893.3	608.6	512.3	573.6	2618.5	2382.0	1637.6
87.5°	262.7	254.0	315.3	398.5	223.3	188.3	201.4	630.5	525.4	486.0
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°
16617.3	0°	16617.3	16617.3	16617.3	16617.3	16617.3	16617.3	16617.3	16617.3	16617.3	16617.3
16683.0	2.5°	16665.5	16665.5	16604.2	16507.8	16398.4	16328.3	16214.5	16183.8	16065.6	16030.5
16831.9	5°	16866.9	16831.9	16643.6	16372.1	15999.9	15658.4	15281.8	15045.3	14712.5	14594.3
17125.2	7.5°	17120.9	17024.5	16700.5	16105.0	15325.6	14559.3	13762.4	13158.1	12580.1	12374.3
17366.1	10°	17352.9	17217.2	16665.5	15623.3	14274.7	12947.9	11678.1	10789.2	10114.9	9839.0
17633.2	12.5°	17585.0	17335.4	16433.4	14822.0	12781.5	10981.9	9628.8	8937.0	8521.0	8188.2
17852.1	15°	17803.9	17453.6	16074.3	13749.2	11143.9	9317.9	8319.6	7767.9	7435.1	7216.2
18171.7	17.5°	18057.9	17554.3	15535.8	12387.4	9585.1	8166.3	7351.9	7019.1	6953.4	6927.2
18609.6	20°	18412.6	17646.3	14826.4	10863.6	8437.8	7246.8	6826.4	6795.8	6791.4	6778.3
19135.1	22.5°	18793.5	17755.8	13889.3	9480.0	7461.4	6673.2	6598.8	6537.5	6498.0	6493.7
19770.0	25°	19244.5	17790.8	12715.8	8345.9	6629.4	6401.7	6314.1	6222.2	6195.9	6195.9
20492.5	27.5°	19682.4	17672.6	11349.7	7360.7	6160.9	6152.1	6038.3	6007.6	6003.2	6016.4
21315.7	30°	20120.3	17449.3	9992.3	6449.9	5889.4	5889.4	5850.0	5871.9	5889.4	5933.2
22445.4	32.5°	20711.4	17212.8	8858.2	5775.6	5652.9	5609.2	5648.6	5692.4	5709.9	5766.8
23929.8	35°	21578.4	17046.4	7956.2	5407.7	5407.7	5350.8	5372.7	5363.9	5324.5	5298.3
25725.1	37.5°	22725.6	17037.7	7211.8	5237.0	5201.9	5193.2	5197.6	5140.6	4987.4	4803.5
27896.9	40°	24104.9	17274.1	6638.2	5118.7	5092.5	5145.0	5118.7	4965.5	4545.1	4225.5
30567.9	42.5°	25957.1	17948.4	6270.3	4974.2	5053.1	5118.7	5013.7	4483.8	4199.2	3984.6
33611.2	45°	28137.7	19043.1	6082.1	4821.0	4978.6	5057.4	4549.5	4317.4	4089.7	3831.4
36930.2	47.5°	30607.4	20422.4	6038.3	4676.5	4812.2	4860.4	4352.5	4247.4	3989.0	3708.8
40266.8	50°	33295.9	22055.7	6156.5	4505.7	4571.4	4405.0	4286.8	4190.4	3923.3	3647.5
43686.6	52.5°	36076.4	23855.3	6393.0	4273.6	4330.6	4146.7	4260.5	4177.3	3883.9	3511.7
47220.3	55°	38808.7	25668.1	6620.6	4002.2	4085.4	3914.6	4186.1	4124.8	3704.4	3284.1
50990.4	57.5°	41584.8	27472.2	6844.0	3761.3	3848.9	3691.3	4067.8	3984.6	3503.0	3073.9
55106.4	60°	44470.4	29223.7	6949.1	3529.3	3590.6	3485.5	3888.3	3743.8	3275.3	2859.3
59152.3	62.5°	47172.1	30681.8	6778.3	3297.2	3336.6	3292.8	3651.9	3459.2	3047.6	2618.5
63369.0	65°	49882.5	31548.8	6252.8	3069.5	3078.3	3056.4	3319.1	3152.7	2780.5	2408.3
67060.3	67.5°	52339.0	32034.8	5416.5	2824.3	2802.4	2793.6	3008.2	2819.9	2522.2	2198.1
69867.1	70°	52860.1	30800.0	4137.9	2535.3	2535.3	2513.4	2666.6	2474.0	2237.5	1974.8
67857.3	72.5°	48279.9	25909.0	2938.1	2206.9	2241.9	2198.1	2325.1	2163.1	1948.5	1773.4
58482.4	75°	38931.3	18999.3	2136.8	1869.7	1931.0	1856.6	1974.8	1861.0	1677.1	1672.7
40301.9	77.5°	26749.7	11748.1	1550.1	1541.3	1585.1	1488.8	1624.5	1563.2	1396.8	1322.4
17541.2	80°	11415.4	4685.2	1129.7	1191.0	1191.0	1103.4	1261.1	1278.6	1134.1	1099.1
3384.8	82.5°	2272.6	1331.1	792.6	818.8	770.7	744.4	893.3	989.6	1366.2	1519.4
1020.2	85°	683.1	490.4	477.3	446.6	394.1	398.5	525.4	994.0	1226.0	700.6
337.2	87.5°	188.3	122.6	127.0	100.7	83.2	109.5	179.5	753.1	411.6	175.1
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>
16617.3
16087.5
14681.9
12400.6
9900.3
8297.7
7255.6
6944.7
6822.1
6541.8
6222.2
6051.4
5963.8
5815.0
5359.6
4807.9
4216.7
3975.9
3813.9
3686.9
3616.8
3485.5
3262.2
3065.1
2846.2
2614.1
2382.0
2171.9
1966.1
1720.8
1506.3
1239.2
1099.1
1523.8
604.3
148.9
0.0

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