

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: P957508

Luminaire Tested: **GALN-SB9D-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
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-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63649 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

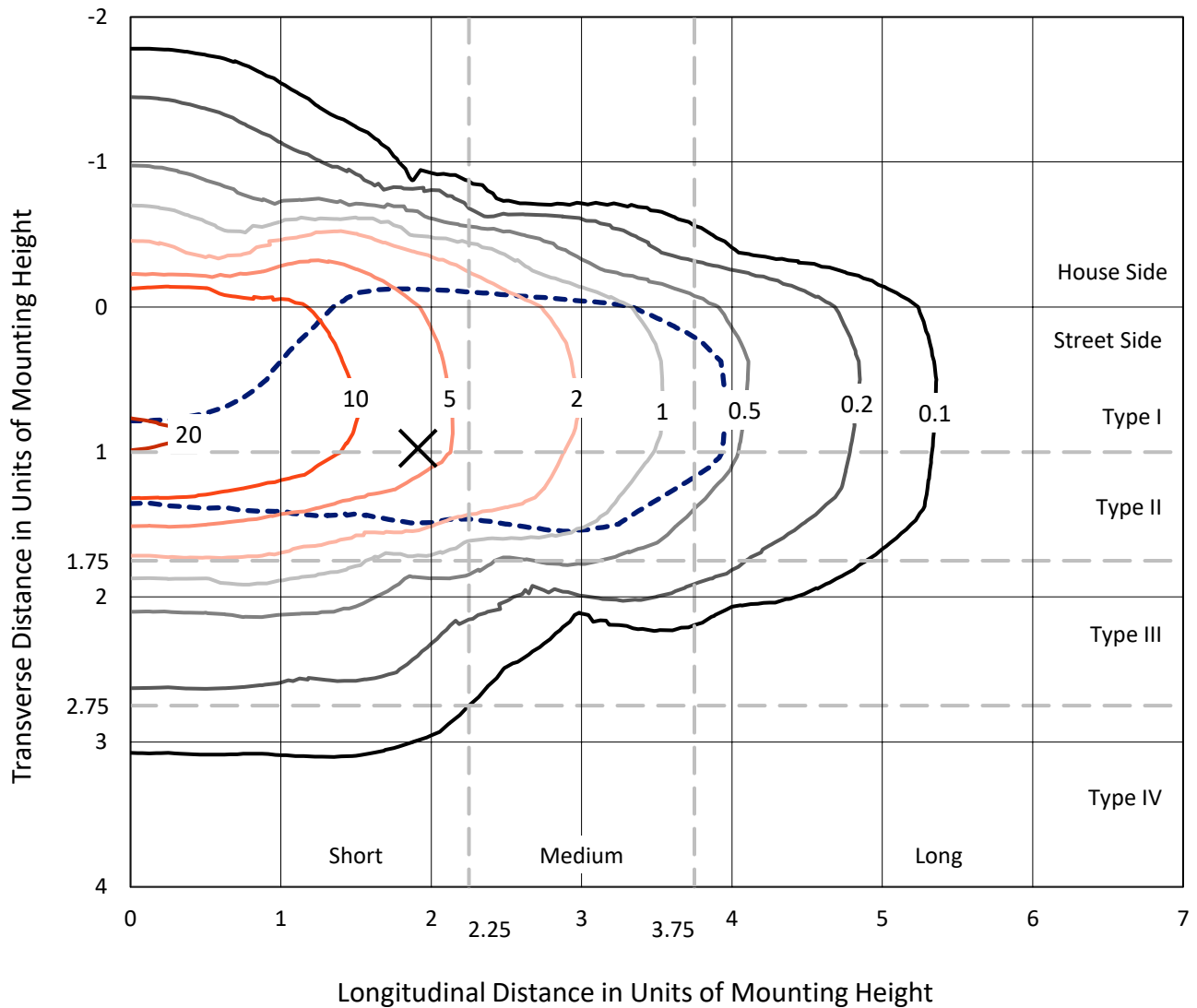
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

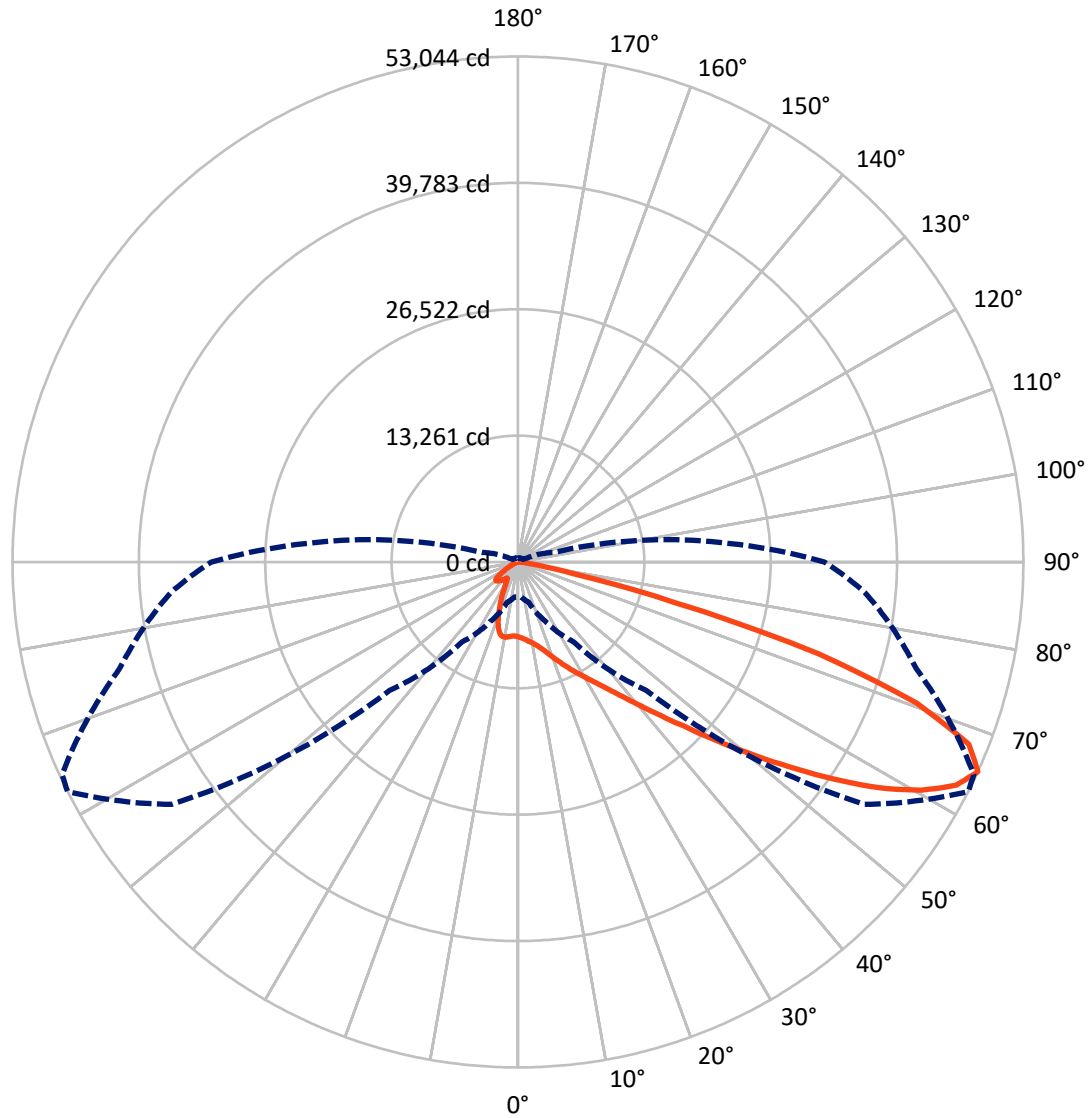
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9355.9	0.0	9355.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	54293.1	0.0	54293.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	63649.0	0.0	63649.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	740.1	1.2
10°-20°	2053.6	3.2
20°-30°	3575.8	5.6
30°-40°	6445.1	10.1
40°-50°	12782.7	20.1
50°-60°	17412.1	27.4
60°-70°	13898.2	21.8
70°-80°	6289.3	9.9
80°-90°	452.1	0.7
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°	63649.0	100.0
0°-180°	63649.0	100.0

Coefficient of Utilization

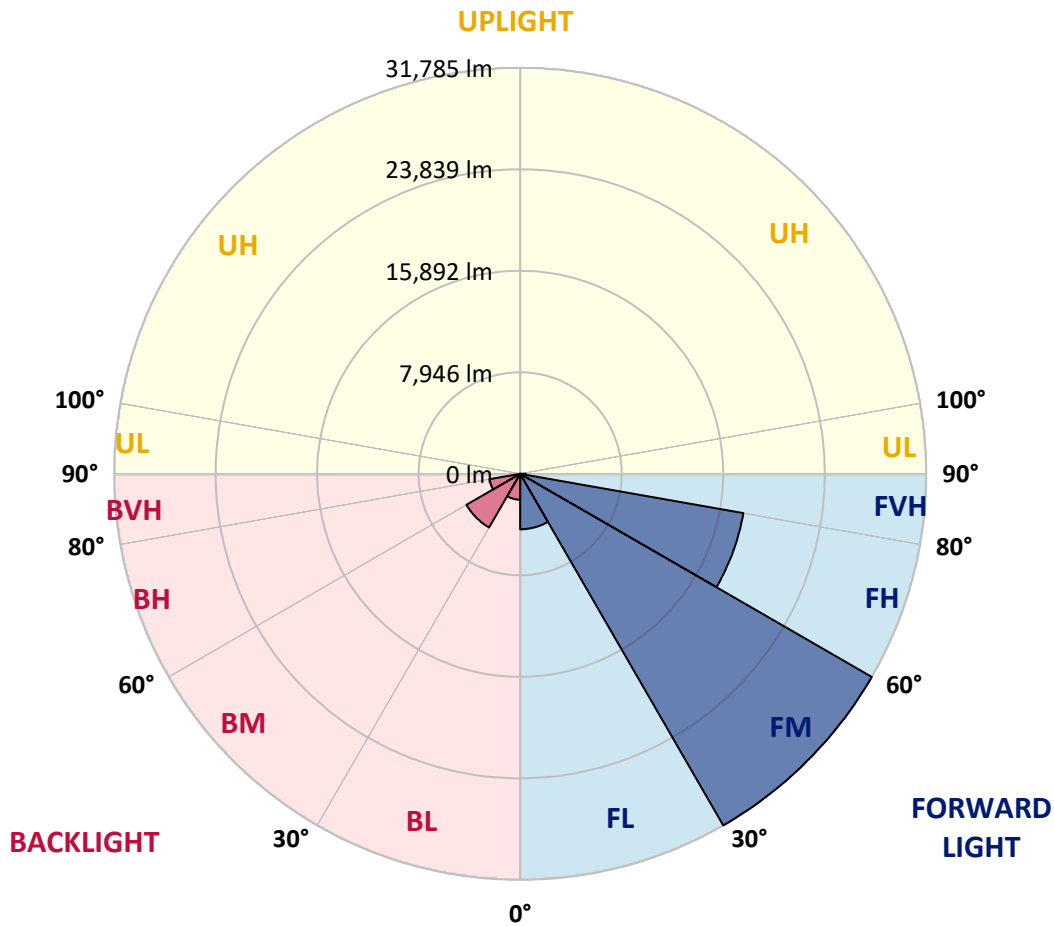


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4344.8	6.8			
FM (30°-60°)	31784.7	49.9			
FH (60°-80°)	17745.0	27.9			G5
FVH (80°-90°)	418.5	0.7			G3/500
BL (0°-30°)	2024.8	3.2	B3/2500		
BM (30°-60°)	4855.1	7.6	B3/5000		
BH (60°-80°)	2442.4	3.8	B3/2500		G3/2500
BVH (80°-90°)	33.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	7855.5	7855.5	7855.5	7855.5	7855.5	7855.5	7855.5	7855.5	7855.5	7855.5
2.5°	8039.4	8017.5	8048.2	8035.0	8026.3	8008.7	8000.0	7991.2	7973.7	7960.6
5°	8061.3	8048.2	8078.8	8105.1	8131.4	8157.6	8170.8	8188.3	8170.8	8135.7
7.5°	7877.4	7868.6	7934.3	8013.1	8131.4	8232.1	8341.5	8402.8	8407.2	8394.1
10°	7864.2	7842.4	7908.0	8004.4	8157.6	8337.2	8529.8	8661.2	8678.7	8735.6
12.5°	8070.0	8048.2	8140.1	8245.2	8402.8	8591.1	8827.6	9011.5	9037.8	9116.6
15°	8416.0	8385.3	8490.4	8626.2	8827.6	9042.1	9291.7	9458.1	9480.0	9576.3
17.5°	8818.8	8788.2	8910.8	9055.3	9274.2	9567.6	9856.6	10040.5	10066.8	10128.1
20°	9335.5	9296.1	9392.4	9523.8	9755.9	10106.2	10452.1	10714.8	10710.4	10710.4
22.5°	9935.4	9874.1	9957.3	10062.4	10281.3	10706.1	11165.8	11476.7	11476.7	11354.1
25°	10579.1	10517.8	10609.7	10706.1	10898.7	11380.4	11919.0	12304.3	12321.8	12111.6
27.5°	11384.8	11305.9	11376.0	11489.9	11603.7	12094.1	12733.4	13180.1	13188.8	12864.8
30°	12934.8	12711.5	12492.6	12370.0	12422.5	12908.6	13591.7	14086.5	14130.2	13683.6
32.5°	15772.3	15728.5	14957.8	13950.7	13425.3	13784.3	14550.6	15146.1	15172.4	14598.8
35°	20181.7	20129.1	18890.0	16972.1	15260.0	14957.8	15715.4	16420.3	16402.8	15754.8
37.5°	25445.0	25396.8	23763.5	21197.6	18425.8	16731.2	17217.3	17957.3	18066.7	17217.3
40°	29941.9	29762.4	28729.0	26255.0	22629.4	19673.8	19354.1	19844.5	19958.4	18951.3
42.5°	33348.6	33195.4	32669.9	31124.2	27717.5	24026.2	21871.9	22060.2	22187.2	20978.6
45°	35113.2	35078.2	35288.4	35143.9	32902.0	29368.3	25471.2	24687.4	24735.6	23224.9
47.5°	35362.8	35345.3	36304.3	37661.7	37359.6	35393.5	30090.8	27962.7	27792.0	25760.2
50°	33891.6	33856.5	35695.6	38239.7	40337.1	40455.3	35336.6	31654.0	31277.5	28383.1
52.5°	29193.2	29184.4	32205.8	36440.0	41383.6	44886.6	40521.0	35708.8	35078.2	31159.2
55°	22463.0	22625.0	26088.6	31093.6	39474.5	47019.1	45175.6	40210.1	39242.4	33952.9
57.5°	15912.4	16148.9	19573.0	24030.6	33554.4	45758.0	48324.0	44720.2	43678.1	36737.8
60°	8547.3	8757.5	12186.1	17506.3	24963.3	41055.2	49983.5	48634.8	47649.6	39382.5
62.5°	5092.5	5162.6	6581.3	11301.6	16884.5	31365.0	49278.5	51616.8	50806.7	41602.6
65°	3656.3	3669.4	4383.1	6900.9	10250.7	19056.3	44334.9	53044.3	52794.7	43275.3
67.5°	3078.3	3069.5	3367.3	4584.6	6984.1	9545.7	33979.2	51025.6	52085.3	44334.9
70°	2640.4	2653.5	3003.8	3358.5	5250.1	5403.4	16893.2	44426.9	46686.3	44615.2
72.5°	1966.1	2009.8	2333.9	3060.8	3962.8	3717.6	5832.5	32941.4	37026.8	42036.1
75°	1388.1	1410.0	1642.0	2574.7	2955.7	2706.1	2977.6	17029.0	22266.0	32227.6
77.5°	1068.4	1107.8	1243.6	1799.7	2911.9	1900.4	1821.6	5893.8	9055.3	19468.0
80°	578.0	648.1	897.6	1300.5	2044.9	1344.3	902.0	2347.0	3069.5	9103.4
82.5°	297.8	332.8	626.2	937.1	1164.7	1173.5	446.6	976.5	1265.5	2811.2
85°	118.2	144.5	420.4	516.7	599.9	578.0	201.4	394.1	455.4	779.4
87.5°	26.3	43.8	153.3	118.2	113.8	122.6	48.2	92.0	87.6	92.0
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°
7855.5	0°	7855.5	7855.5	7855.5	7855.5	7855.5	7855.5	7855.5	7855.5	7855.5	7855.5
7908.0	2.5°	7903.7	7886.1	7838.0	7785.4	7724.1	7689.1	7667.2	7662.8	7632.2	7610.3
8083.2	5°	8035.0	8017.5	7925.5	7816.1	7697.9	7605.9	7518.3	7439.5	7325.7	7303.8
8337.2	7.5°	8297.7	8249.6	8100.7	7951.8	7728.5	7461.4	7137.4	6765.2	6432.4	6331.7
8674.3	10°	8621.8	8556.1	8367.8	8105.1	7610.3	6883.4	6099.6	5372.7	4794.7	4632.7
9072.8	12.5°	8989.6	8932.7	8683.1	8197.0	7115.5	5797.5	4597.7	3695.7	3135.2	2995.1
9497.5	15°	9427.5	9344.3	8998.3	8056.9	6231.0	4405.0	3157.1	2622.9	2421.5	2395.2
9983.6	17.5°	9891.6	9755.9	9278.6	7553.4	5039.9	3130.8	2439.0	2285.7	2198.1	2171.9
10474.0	20°	10316.4	10141.2	9445.0	6791.5	3765.7	2439.0	2185.0	2084.3	2005.5	1974.8
10964.4	22.5°	10741.1	10491.5	9445.0	5753.7	2824.3	2163.1	2005.5	1913.5	1821.6	1782.2
11489.9	25°	11183.3	10850.6	9278.6	4597.7	2272.6	1983.6	1834.7	1734.0	1655.2	1607.0
11989.0	27.5°	11612.5	11152.7	8897.6	3503.0	2023.0	1825.9	1677.1	1580.7	1506.3	1471.3
12532.0	30°	12019.7	11450.4	8363.4	2657.9	1861.0	1672.7	1532.6	1449.4	1374.9	1339.9
13237.0	32.5°	12571.4	11827.0	7794.2	2180.6	1720.9	1528.2	1401.2	1322.4	1256.7	1230.4
14152.1	35°	13337.7	12383.1	7303.8	2141.2	1602.6	1410.0	1283.0	1208.5	1142.9	1121.0
15334.4	37.5°	14423.6	13280.8	7045.4	2403.9	1506.3	1304.9	1186.6	1107.8	1046.5	1029.0
16836.3	40°	15763.5	14498.1	7185.5	2666.7	1440.6	1212.9	1099.1	1020.3	967.7	945.8
18561.5	42.5°	17353.0	16000.0	7960.6	2868.1	1396.8	1134.1	1015.9	928.3	893.3	884.5
20518.9	45°	19179.0	17650.8	9147.2	3082.6	1326.8	1059.7	932.7	867.0	840.7	836.3
22646.9	47.5°	21254.5	19463.6	10522.2	3349.7	1256.7	989.6	867.0	823.2	801.3	792.6
24867.0	50°	23312.5	21289.5	11936.5	3498.6	1199.8	923.9	814.4	779.4	761.9	757.5
27214.0	52.5°	25466.8	23168.0	13079.3	3358.5	1151.6	871.4	770.7	744.4	726.9	722.5
29377.1	55°	27520.5	24687.4	13276.4	2850.6	1055.3	818.8	722.5	709.4	687.5	687.5
31570.8	57.5°	29289.5	25449.3	11883.9	2093.0	958.9	740.0	674.3	661.2	643.7	639.3
33550.0	60°	30914.0	25230.4	9173.5	1410.0	853.9	661.2	613.0	604.3	586.8	564.9
35270.9	62.5°	31829.2	24267.1	6274.8	919.5	748.8	578.0	543.0	538.6	499.2	455.4
36545.1	65°	32175.1	22287.9	3914.6	669.9	626.2	494.8	468.5	459.8	402.8	354.7
37267.6	67.5°	31873.0	19030.1	1974.8	529.8	494.8	411.6	385.3	385.3	345.9	302.1
37223.8	70°	30664.4	14266.0	832.0	424.7	381.0	315.3	315.3	332.8	293.4	245.2
35292.8	72.5°	28041.6	9598.2	442.3	324.0	284.6	223.3	258.3	271.5	232.1	183.9
28886.7	75°	22292.2	5854.4	306.5	240.8	179.5	157.6	197.0	205.8	157.6	122.6
19805.1	77.5°	15246.8	3362.9	205.8	153.3	113.8	92.0	135.7	127.0	83.2	56.9
7636.6	80°	6695.1	1401.2	118.2	70.1	43.8	35.0	48.2	35.0	26.3	17.5
1046.5	82.5°	783.8	328.4	43.8	26.3	17.5	8.8	4.4	0.0	0.0	0.0
319.6	85°	162.0	39.4	21.9	8.8	4.4	0.0	0.0	0.0	0.0	0.0
56.9	87.5°	30.7	8.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
7855.5
7632.2
7295.0
6283.5
4571.4
2955.7
2368.9
2158.7
1957.3
1760.3
1589.5
1471.3
1344.3
1230.4
1121.0
1024.6
941.4
884.5
832.0
792.6
757.5
722.5
683.1
634.9
560.5
446.6
350.3
297.8
240.8
183.9
118.2
61.3
17.5
0.0
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