

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: P953224

Luminaire Tested: **GALN-SB6D-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953224
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-SB6D-830-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 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: 42376 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

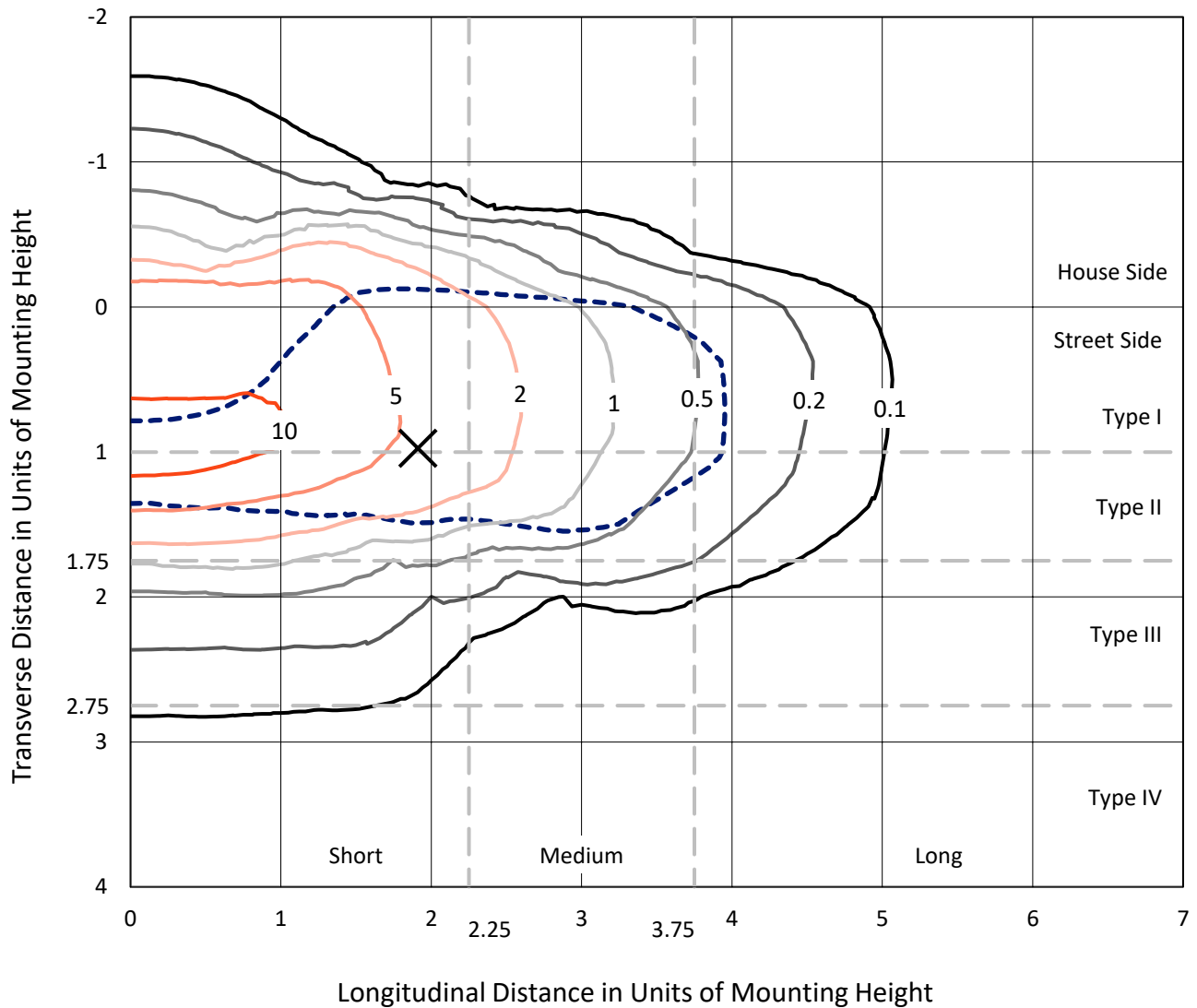
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

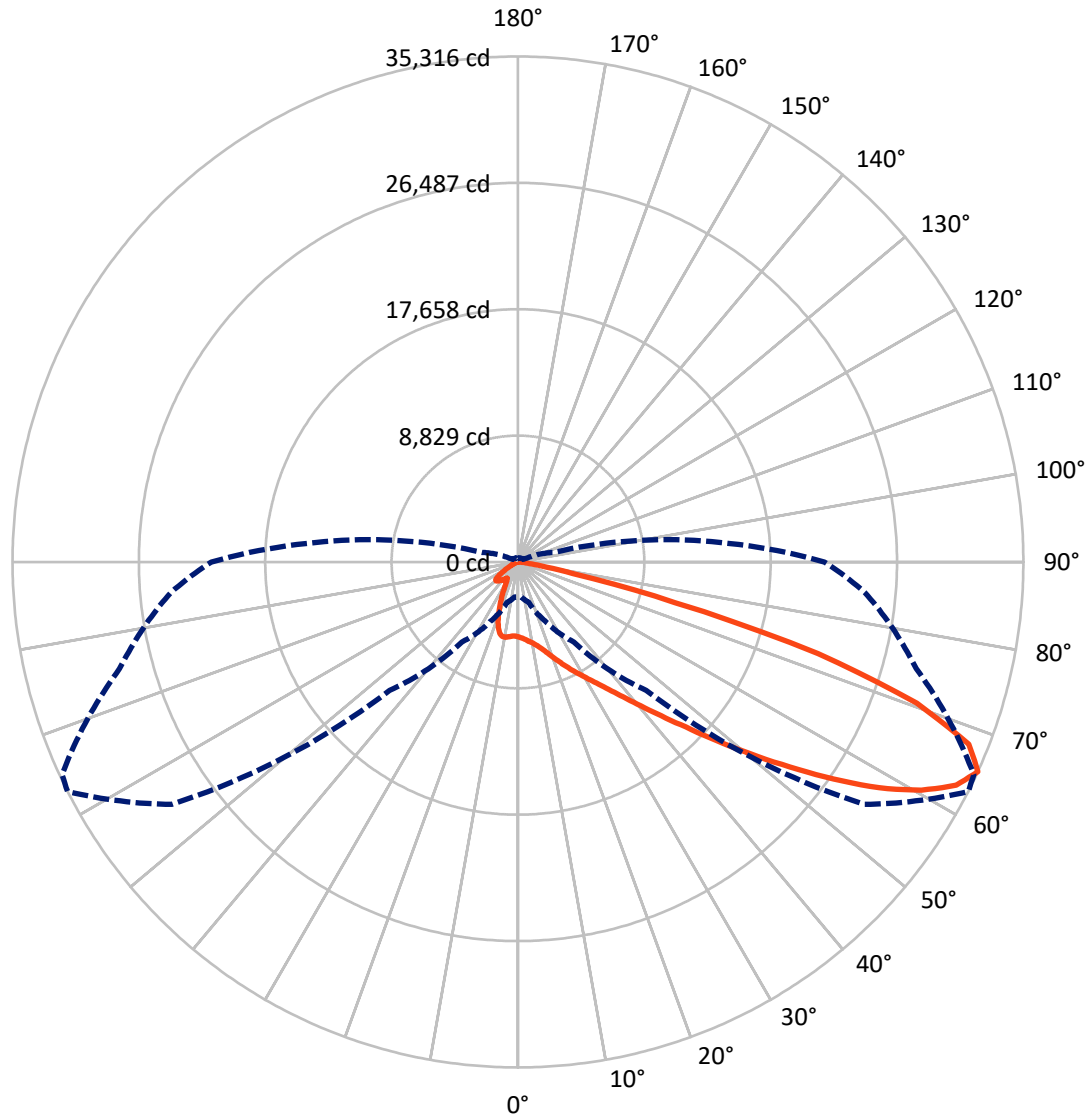
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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	6228.9	0.0	6228.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	36147.1	0.0	36147.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	42376.0	0.0	42376.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.8	1.2
10°-20°	1367.2	3.2
20°-30°	2380.7	5.6
30°-40°	4291.0	10.1
40°-50°	8510.4	20.1
50°-60°	11592.6	27.4
60°-70°	9253.1	21.8
70°-80°	4187.2	9.9
80°-90°	301.0	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°	42376.0	100.0
0°-180°	42376.0	100.0

Coefficient of Utilization



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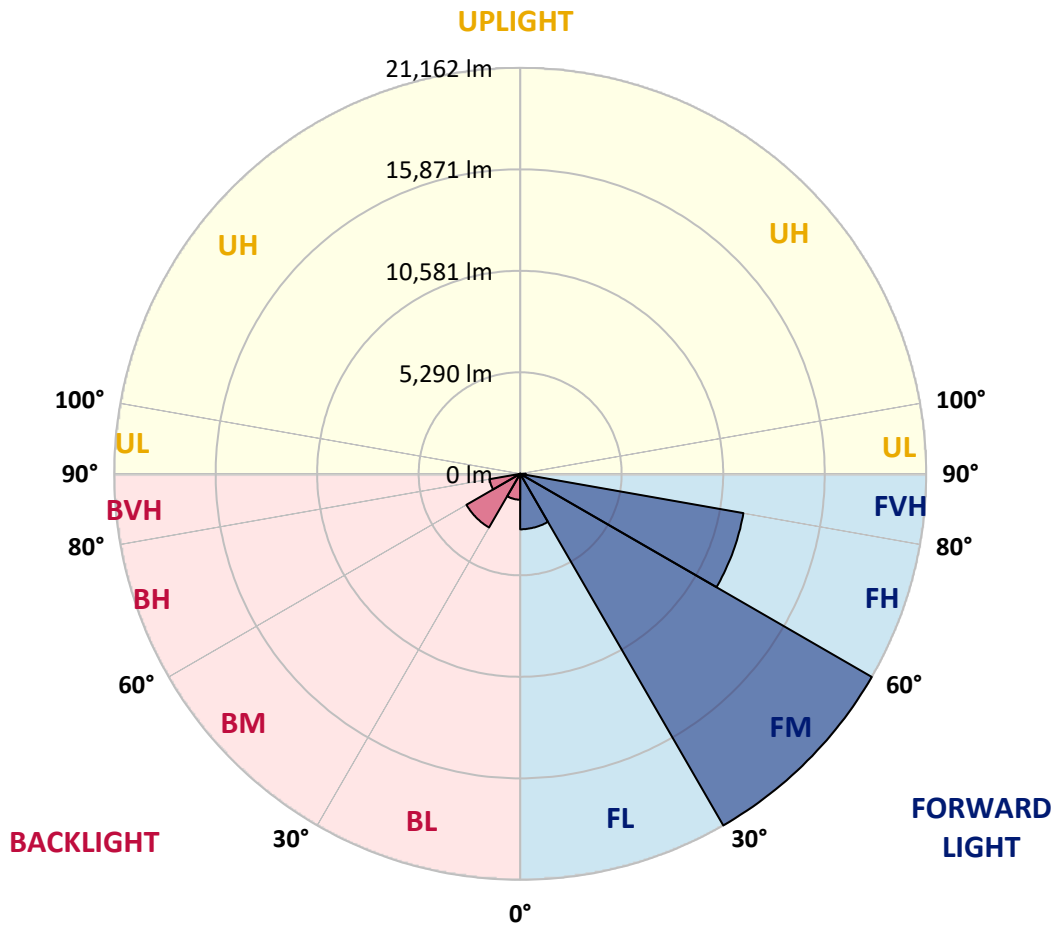
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2892.7	6.8			
FM (30°-60°)	21161.5	49.9			
FH (60°-80°)	11814.2	27.9			G4/12000
FVH (80°-90°)	278.6	0.7			G3/500
BL (0°-30°)	1348.0	3.2	B3/2500		
BM (30°-60°)	3232.4	7.6	B3/5000		
BH (60°-80°)	1626.1	3.8	B3/2500		G3/2500
BVH (80°-90°)	22.3	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	5230.0	5230.0	5230.0	5230.0	5230.0	5230.0	5230.0	5230.0	5230.0	5230.0
2.5°	5352.4	5337.9	5358.3	5349.5	5343.7	5332.0	5326.2	5320.4	5308.7	5300.0
5°	5367.0	5358.3	5378.7	5396.2	5413.7	5431.2	5439.9	5451.6	5439.9	5416.6
7.5°	5244.6	5238.7	5282.5	5334.9	5413.7	5480.7	5553.6	5594.4	5597.3	5588.6
10°	5235.8	5221.3	5265.0	5329.1	5431.2	5550.7	5679.0	5766.4	5778.1	5816.0
12.5°	5372.8	5358.3	5419.5	5489.5	5594.4	5719.8	5877.2	5999.6	6017.1	6069.6
15°	5603.2	5582.7	5652.7	5743.1	5877.2	6020.0	6186.2	6297.0	6311.6	6375.7
17.5°	5871.4	5851.0	5932.6	6028.8	6174.5	6369.9	6562.3	6684.7	6702.2	6743.0
20°	6215.4	6189.1	6253.3	6340.7	6495.2	6728.4	6958.8	7133.7	7130.8	7130.8
22.5°	6614.8	6573.9	6629.3	6699.3	6845.1	7127.8	7433.9	7640.9	7640.9	7559.3
25°	7043.3	7002.5	7063.7	7127.8	7256.1	7576.8	7935.4	8191.9	8203.6	8063.6
27.5°	7579.7	7527.2	7573.9	7649.7	7725.5	8052.0	8477.6	8775.0	8780.8	8565.1
30°	8611.7	8463.0	8317.3	8235.6	8270.6	8594.2	9049.0	9378.4	9407.6	9110.2
32.5°	10500.8	10471.7	9958.6	9288.1	8938.2	9177.3	9687.5	10083.9	10101.4	9719.5
35°	13436.5	13401.5	12576.5	11299.6	10159.7	9958.6	10462.9	10932.3	10920.6	10489.2
37.5°	16940.6	16908.6	15821.2	14112.8	12267.5	11139.3	11462.9	11955.5	12028.4	11462.9
40°	19934.6	19815.1	19127.1	17480.0	15066.1	13098.3	12885.5	13212.0	13287.8	12617.3
42.5°	22202.7	22100.7	21750.8	20721.8	18453.7	15996.1	14561.8	14687.1	14771.7	13967.1
45°	23377.6	23354.2	23494.2	23398.0	21905.4	19552.7	16958.1	16436.3	16468.4	15462.6
47.5°	23543.7	23532.1	24170.5	25074.3	24873.1	23564.1	20033.8	18616.9	18503.2	17150.5
50°	22564.2	22540.9	23765.3	25459.1	26855.5	26934.2	23526.3	21074.5	20823.8	18896.8
52.5°	19436.1	19430.3	21441.8	24260.9	27552.2	29884.5	26977.9	23774.0	23354.2	20745.1
55°	14955.3	15063.2	17369.2	20701.4	26281.2	31304.2	30076.9	26770.9	26126.7	22605.0
57.5°	10594.1	10751.5	13031.3	15999.0	22339.7	30464.6	32172.9	29773.7	29079.8	24459.1
60°	5690.6	5830.5	8113.2	11655.3	16620.0	27333.6	33277.8	32379.9	31724.0	26220.0
62.5°	3390.5	3437.1	4381.7	7524.3	11241.3	20882.1	32808.5	34365.2	33825.9	27698.0
65°	2434.3	2443.0	2918.2	4594.5	6824.7	12687.3	29517.1	35315.6	35149.4	28811.6
67.5°	2049.4	2043.6	2241.8	3052.3	4649.9	6355.3	22622.5	33971.7	34677.2	29517.1
70°	1757.9	1766.7	1999.9	2236.0	3495.4	3597.4	11247.1	29578.4	31082.6	29703.7
72.5°	1309.0	1338.1	1553.8	2037.8	2638.3	2475.1	3883.1	21931.6	24651.5	27986.6
75°	924.1	938.7	1093.2	1714.2	1967.8	1801.6	1982.4	11337.5	14824.2	21456.4
77.5°	711.3	737.6	827.9	1198.2	1938.7	1265.2	1212.8	3924.0	6028.8	12961.3
80°	384.8	431.5	597.6	865.8	1361.4	895.0	600.5	1562.6	2043.6	6060.9
82.5°	198.2	221.6	416.9	623.9	775.5	781.3	297.4	650.1	842.5	1871.6
85°	78.7	96.2	279.9	344.0	399.4	384.8	134.1	262.4	303.2	518.9
87.5°	17.5	29.2	102.0	78.7	75.8	81.6	32.1	61.2	58.3	61.2
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°
5230.0	0°	5230.0	5230.0	5230.0	5230.0	5230.0	5230.0	5230.0	5230.0	5230.0	5230.0
5265.0	2.5°	5262.1	5250.4	5218.3	5183.4	5142.5	5119.2	5104.6	5101.7	5081.3	5066.7
5381.6	5°	5349.5	5337.9	5276.6	5203.8	5125.0	5063.8	5005.5	4953.0	4877.3	4862.7
5550.7	7.5°	5524.4	5492.4	5393.3	5294.1	5145.5	4967.6	4751.9	4504.1	4282.5	4215.5
5775.2	10°	5740.2	5696.4	5571.1	5396.2	5066.7	4582.8	4061.0	3577.0	3192.2	3084.4
6040.4	12.5°	5985.1	5947.2	5781.0	5457.4	4737.3	3859.8	3061.0	2460.5	2087.3	1994.0
6323.2	15°	6276.6	6221.2	5990.9	5364.1	4148.4	2932.8	2101.9	1746.2	1612.1	1594.7
6646.8	17.5°	6585.6	6495.2	6177.5	5028.8	3355.5	2084.4	1623.8	1521.8	1463.5	1446.0
6973.3	20°	6868.4	6751.8	6288.2	4521.6	2507.1	1623.8	1454.7	1387.7	1335.2	1314.8
7299.8	22.5°	7151.2	6985.0	6288.2	3830.7	1880.4	1440.1	1335.2	1274.0	1212.8	1186.5
7649.7	25°	7445.6	7224.0	6177.5	3061.0	1513.0	1320.6	1221.5	1154.4	1102.0	1069.9
7982.0	27.5°	7731.3	7425.2	5923.8	2332.2	1346.9	1215.7	1116.5	1052.4	1002.9	979.5
8343.5	30°	8002.4	7623.4	5568.2	1769.6	1239.0	1113.6	1020.3	965.0	915.4	892.1
8812.9	32.5°	8369.7	7874.2	5189.2	1451.8	1145.7	1017.4	932.9	880.4	836.7	819.2
9422.2	35°	8879.9	8244.4	4862.7	1425.6	1067.0	938.7	854.2	804.6	760.9	746.3
10209.3	37.5°	9602.9	8842.0	4690.7	1600.5	1002.9	868.8	790.0	737.6	696.8	685.1
11209.2	40°	10495.0	9652.5	4784.0	1775.4	959.1	807.5	731.7	679.3	644.3	629.7
12357.8	42.5°	11553.2	10652.4	5300.0	1909.5	930.0	755.1	676.3	618.0	594.7	588.9
13661.0	45°	12768.9	11751.5	6090.0	2052.4	883.3	705.5	621.0	577.2	559.7	556.8
15077.8	47.5°	14150.7	12958.4	7005.4	2230.2	836.7	658.9	577.2	548.1	533.5	527.7
16555.8	50°	15520.9	14174.1	7947.0	2329.3	798.8	615.1	542.2	518.9	507.3	504.3
18118.4	52.5°	16955.2	15424.7	8707.9	2236.0	766.7	580.1	513.1	495.6	483.9	481.0
19558.6	55°	18322.5	16436.3	8839.1	1897.8	702.6	545.2	481.0	472.3	457.7	457.7
21019.1	57.5°	19500.3	16943.6	7912.0	1393.5	638.4	492.7	449.0	440.2	428.5	425.6
22336.8	60°	20581.8	16797.8	6107.5	938.7	568.5	440.2	408.1	402.3	390.6	376.1
23482.5	62.5°	21191.1	16156.4	4177.6	612.2	498.5	384.8	361.5	358.6	332.3	303.2
24330.9	65°	21421.4	14838.7	2606.3	446.0	416.9	329.4	311.9	306.1	268.2	236.1
24811.9	67.5°	21220.3	12669.8	1314.8	352.7	329.4	274.0	256.5	256.5	230.3	201.2
24782.7	70°	20415.7	9498.0	553.9	282.8	253.6	209.9	209.9	221.6	195.3	163.3
23497.1	72.5°	18669.4	6390.3	294.4	215.7	189.5	148.7	172.0	180.7	154.5	122.4
19232.1	75°	14841.7	3897.7	204.1	160.3	119.5	104.9	131.2	137.0	104.9	81.6
13185.8	77.5°	10151.0	2238.9	137.0	102.0	75.8	61.2	90.4	84.5	55.4	37.9
5084.2	80°	4457.5	932.9	78.7	46.6	29.2	23.3	32.1	23.3	17.5	11.7
696.8	82.5°	521.8	218.6	29.2	17.5	11.7	5.8	2.9	0.0	0.0	0.0
212.8	85°	107.9	26.2	14.6	5.8	2.9	0.0	0.0	0.0	0.0	0.0
37.9	87.5°	20.4	5.8	2.9	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>
5230.0
5081.3
4856.8
4183.4
3043.5
1967.8
1577.2
1437.2
1303.1
1171.9
1058.2
979.5
895.0
819.2
746.3
682.2
626.8
588.9
553.9
527.7
504.3
481.0
454.8
422.7
373.2
297.4
233.2
198.2
160.3
122.4
78.7
40.8
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