

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: P942706

Luminaire Tested: **GALN-SB6D-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
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-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43486 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

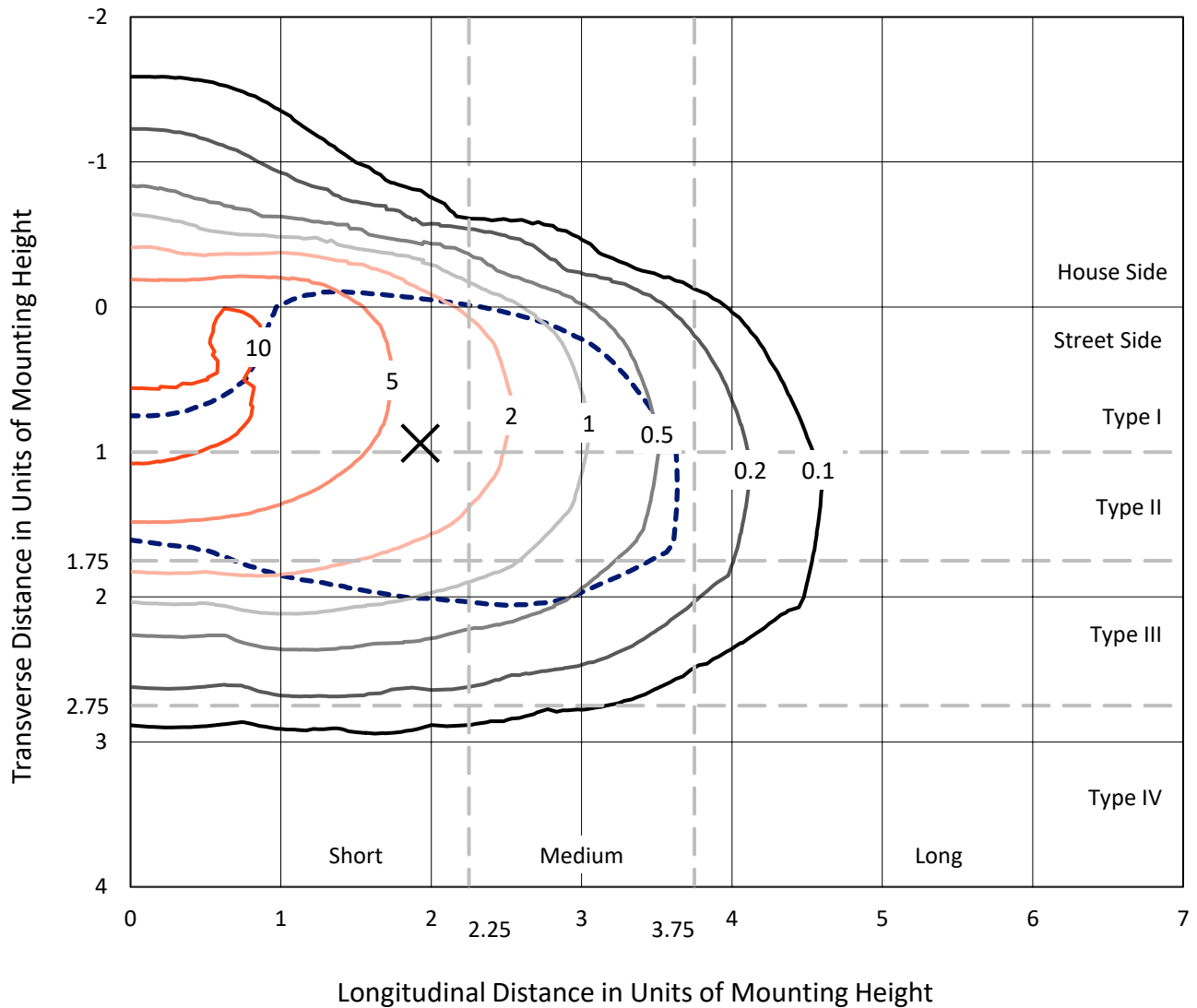
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

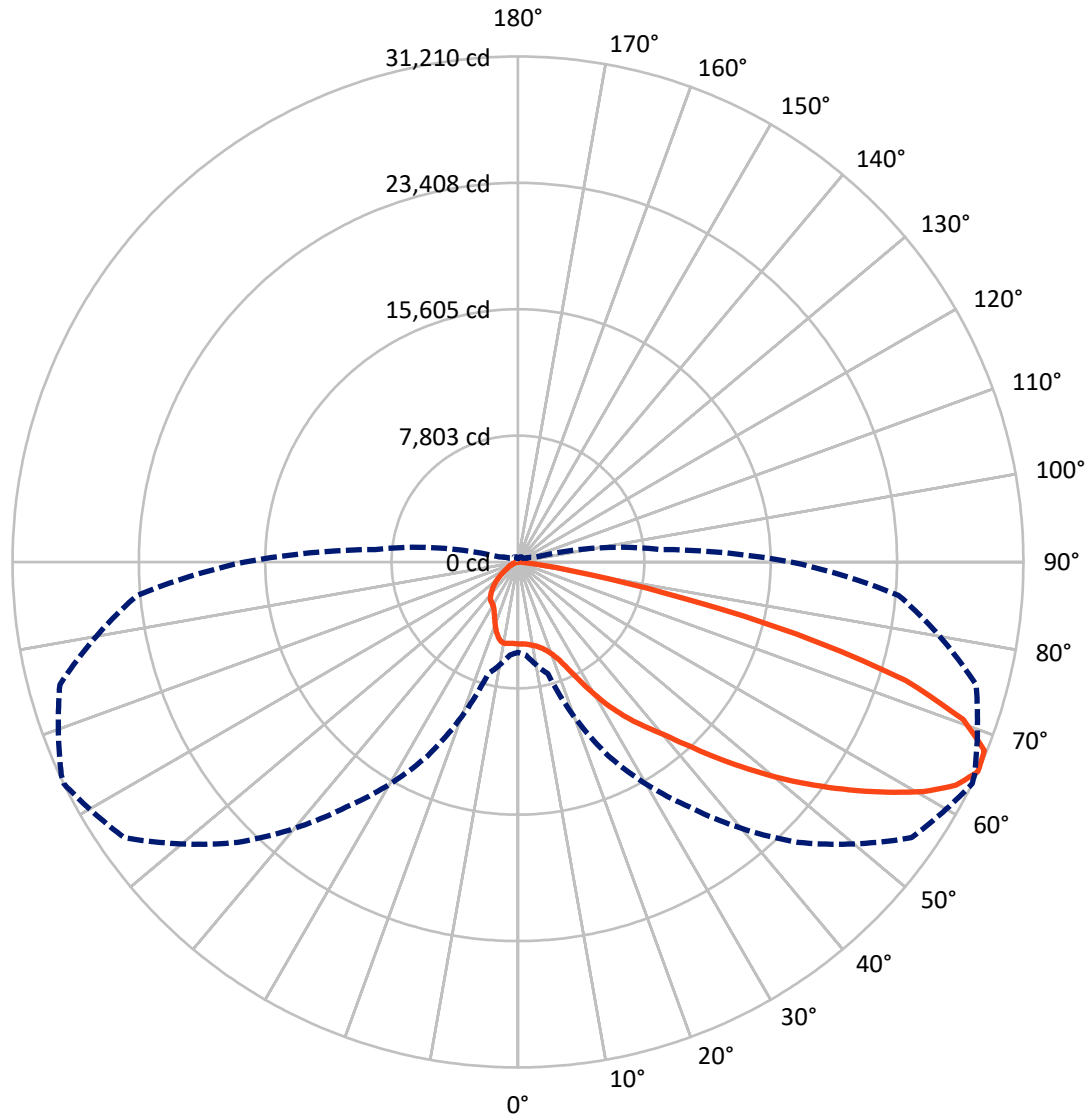
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5815.4	0.0	5815.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	37670.6	0.0	37670.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	43486.0	0.0	43486.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.6	1.1
10°-20°	1265.7	2.9
20°-30°	2398.3	5.5
30°-40°	4853.1	11.2
40°-50°	8267.2	19.0
50°-60°	11242.8	25.9
60°-70°	10557.6	24.3
70°-80°	4229.8	9.7
80°-90°	204.9	0.5
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°	43486.0	100.0
0°-180°	43486.0	100.0

Coefficient of Utilization



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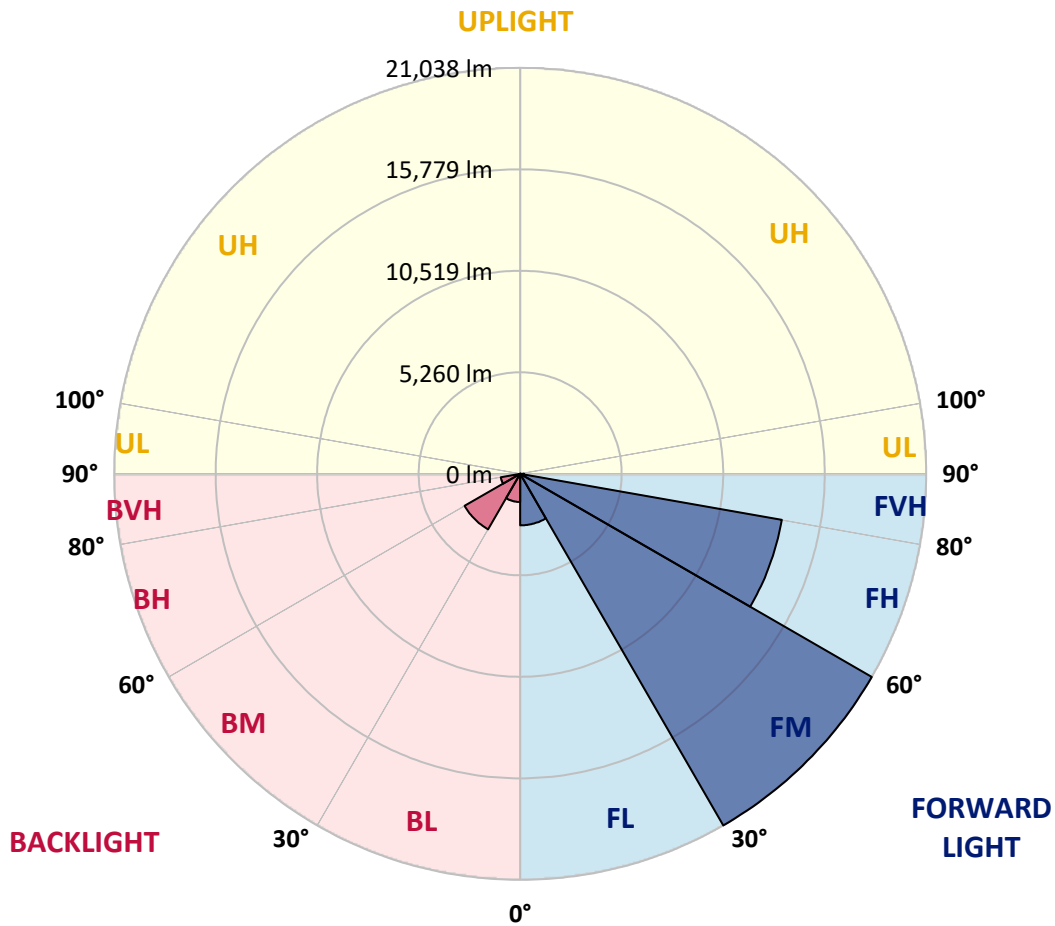
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2670.5	6.1			
FM (30°-60°)	21038.5	48.4			
FH (60°-80°)	13766.7	31.7			G5
FVH (80°-90°)	194.9	0.4			G2/225
BL (0°-30°)	1460.1	3.4	B3/2500		
BM (30°-60°)	3324.6	7.6	B3/5000		
BH (60°-80°)	1020.7	2.3	B3/2500		G3/2500
BVH (80°-90°)	10.0	0.0			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	5057.9	5057.9	5057.9	5057.9	5057.9	5057.9	5057.9	5057.9	5057.9	5057.9
2.5°	5040.4	5075.4	5066.6	5057.9	5055.0	5060.8	5063.7	5060.8	5060.8	5060.8
5°	4944.2	4973.3	4973.3	4993.7	5022.9	5057.9	5084.1	5089.9	5095.8	5104.5
7.5°	4760.5	4783.8	4801.3	4868.4	4941.3	5034.6	5113.3	5154.1	5159.9	5192.0
10°	4635.2	4664.3	4693.5	4763.4	4868.4	5008.3	5142.4	5241.5	5256.1	5331.9
12.5°	4629.3	4658.5	4696.4	4772.2	4894.6	5043.3	5206.5	5349.4	5375.6	5486.4
15°	4690.6	4725.5	4760.5	4853.8	4985.0	5165.7	5340.6	5518.5	5544.7	5702.1
17.5°	4815.9	4862.6	4888.8	4982.1	5122.0	5323.2	5553.5	5757.5	5780.8	5964.5
20°	5063.7	5119.1	5127.8	5203.6	5340.6	5556.4	5830.4	6084.0	6113.2	6323.1
22.5°	5576.8	5655.5	5585.5	5623.4	5745.9	5961.6	6258.9	6579.6	6620.4	6859.5
25°	6480.5	6591.3	6410.5	6346.4	6398.9	6623.3	6996.5	7401.7	7448.3	7640.7
27.5°	8255.8	8113.0	7839.0	7570.8	7413.4	7541.6	7961.4	8462.8	8521.1	8707.7
30°	10206.1	10080.8	9710.5	9115.8	8742.7	8722.3	9110.0	9669.7	9736.8	9914.6
32.5°	12159.3	12039.8	11637.5	10905.8	10258.6	9937.9	10206.1	10827.1	10862.0	10975.7
35°	14080.4	13958.0	13555.7	12806.5	12010.6	11281.8	11229.4	11929.0	11940.7	12060.2
37.5°	16013.2	15911.2	15482.6	14748.0	13963.8	12958.1	12471.2	12972.6	12987.2	13103.8
40°	17392.1	17435.8	17141.4	16572.9	15899.5	14800.5	13864.7	14083.3	13995.9	14191.2
42.5°	18575.7	18663.1	18406.6	18120.9	17730.3	16762.4	15590.5	15552.6	15412.7	15517.6
45°	19598.9	19671.8	19441.5	19374.4	19365.7	18686.4	17476.6	17249.2	17053.9	17033.5
47.5°	19975.0	20114.9	20214.0	20438.5	20875.8	20590.1	19426.9	19074.2	18855.5	18695.2
50°	20117.8	20266.5	20604.6	21257.6	22292.5	22415.0	21368.4	20972.0	20703.8	20412.2
52.5°	19925.4	20190.7	20645.5	21744.5	23245.8	23878.4	23231.2	22884.3	22578.2	22103.1
55°	18791.4	19056.7	19986.6	21738.7	23721.0	24904.6	24992.0	24837.5	24493.5	23744.3
57.5°	16400.9	16794.5	18266.6	20998.2	23712.2	25787.9	26717.8	26828.6	26443.8	25371.0
60°	13089.3	13622.7	15418.5	19356.9	22980.5	26266.0	28230.8	28784.7	28376.6	26974.4
62.5°	9133.3	9751.3	11450.9	16785.7	21307.2	25922.0	29335.7	30358.9	30049.9	28408.6
65°	5570.9	5769.2	7139.3	13208.8	18462.0	24481.9	29676.7	31210.1	31108.1	29286.1
67.5°	3711.1	3877.2	4270.8	9057.5	14331.1	21604.6	28860.5	31061.5	31090.6	29143.3
70°	2236.0	2378.8	2635.3	5267.8	9287.8	17100.6	26333.0	29166.6	29335.7	27233.8
72.5°	921.2	1017.4	1250.6	2387.5	4810.1	10853.3	20969.0	25041.6	25435.1	22898.9
75°	521.8	571.4	734.6	1198.1	2087.3	5057.9	12701.5	17776.9	18357.0	15782.9
77.5°	346.9	370.2	475.2	775.4	1174.8	1725.8	5428.1	9261.6	10369.4	8620.2
80°	233.2	253.6	326.5	518.9	763.8	740.5	1728.7	3431.2	4221.2	2961.8
82.5°	157.4	160.3	233.2	341.1	483.9	358.6	510.2	1067.0	1341.0	857.1
85°	90.4	87.5	172.0	198.2	215.7	148.7	154.5	320.7	419.8	361.5
87.5°	11.7	17.5	67.0	52.5	29.2	32.1	32.1	55.4	81.6	87.5
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°
5057.9	0°	5057.9	5057.9	5057.9	5057.9	5057.9	5057.9	5057.9	5057.9	5057.9	5057.9
5063.7	2.5°	5063.7	5060.8	5052.0	5043.3	5022.9	5011.2	5017.1	5011.2	5008.3	5011.2
5101.6	5°	5101.6	5092.9	5069.5	5040.4	4999.6	4950.0	4917.9	4871.3	4827.6	4801.3
5203.6	7.5°	5203.6	5194.9	5162.8	5081.2	4950.0	4743.0	4553.5	4387.4	4262.0	4189.1
5366.9	10°	5366.9	5352.3	5302.8	5122.0	4778.0	4326.2	3950.1	3638.2	3434.1	3337.9
5559.3	12.5°	5559.3	5541.8	5454.3	5084.1	4451.5	3746.0	3227.1	2880.2	2690.7	2606.2
5780.8	15°	5786.7	5763.4	5591.4	4903.4	3976.3	3104.7	2629.5	2370.1	2247.6	2171.8
6063.6	17.5°	6069.4	6028.6	5693.4	4632.3	3460.3	2614.9	2262.2	2066.9	1959.0	1886.1
6433.8	20°	6436.8	6369.7	5775.0	4308.7	2985.2	2305.9	2014.4	1851.2	1769.5	1705.4
6958.6	22.5°	6949.8	6853.6	5874.1	3958.8	2649.9	2093.1	1830.7	1711.2	1644.2	1571.3
7690.3	25°	7585.4	7471.7	5996.6	3635.3	2419.6	1909.5	1696.6	1597.5	1518.8	1434.3
8649.4	27.5°	8474.5	8270.4	6142.3	3370.0	2221.4	1752.0	1574.2	1463.4	1373.1	1303.1
9736.8	30°	9465.7	9130.4	6270.6	3209.6	2040.6	1606.3	1413.9	1303.1	1218.6	1169.0
10713.4	32.5°	10404.4	9949.6	6355.1	3139.7	1877.4	1440.1	1239.0	1119.4	1055.3	1040.7
11669.5	35°	11290.6	10690.0	6346.4	3072.6	1731.6	1273.9	1067.0	944.5	895.0	903.7
12698.6	37.5°	12310.9	11480.1	6285.2	2967.7	1612.1	1122.4	918.3	810.4	766.7	769.6
13949.2	40°	13497.4	12392.5	6247.3	2769.4	1480.9	982.4	795.8	708.4	676.3	664.7
15266.9	42.5°	14762.6	13275.8	6253.1	2545.0	1317.7	857.1	711.3	638.4	609.3	600.5
16733.3	45°	16033.6	14118.3	6261.9	2311.8	1145.7	760.9	650.1	588.9	571.4	559.7
18220.0	47.5°	17228.8	14835.5	6098.6	2061.0	976.6	688.0	600.5	559.7	545.1	530.6
19712.6	50°	18342.4	15313.5	5705.0	1769.5	842.5	629.7	562.6	533.5	518.9	504.3
21065.2	52.5°	19208.3	15389.3	5055.0	1469.3	749.2	586.0	539.3	513.1	495.6	481.0
22158.4	55°	19593.1	14914.2	4130.8	1189.4	676.3	548.1	516.0	489.8	469.3	454.8
23018.4	57.5°	19493.9	13914.3	3221.3	956.2	606.4	510.2	486.8	469.3	446.0	422.7
23715.2	60°	19007.1	12576.2	2428.4	795.8	542.2	469.3	454.8	440.2	408.1	373.1
23983.4	62.5°	18164.6	10894.1	1731.6	658.8	472.3	422.7	416.9	405.2	358.6	294.4
23586.9	65°	16876.1	8850.5	1166.1	548.1	405.2	370.2	373.1	352.7	291.5	218.6
22135.1	67.5°	14992.9	6471.7	746.3	448.9	338.2	309.0	311.9	300.3	247.8	186.6
19383.2	70°	12593.7	4285.3	486.8	341.1	271.1	239.0	256.5	259.5	209.9	151.6
14876.3	72.5°	9232.4	2530.4	341.1	253.6	198.2	166.2	209.9	215.7	169.1	113.7
8949.7	75°	5261.9	1201.1	256.5	183.7	122.4	116.6	163.3	163.3	116.6	75.8
3874.3	77.5°	2209.7	501.4	180.7	119.5	70.0	67.0	110.8	102.0	58.3	35.0
944.5	80°	638.4	224.5	96.2	58.3	29.2	26.2	43.7	32.1	14.6	5.8
358.6	82.5°	250.7	99.1	37.9	23.3	11.7	11.7	5.8	0.0	0.0	0.0
204.1	85°	148.7	40.8	17.5	8.7	2.9	0.0	0.0	0.0	0.0	0.0
43.7	87.5°	37.9	8.7	5.8	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>
5057.9
5022.9
4807.2
4192.1
3329.2
2597.4
2174.7
1880.3
1693.7
1559.6
1425.5
1288.5
1160.2
1049.5
903.7
781.3
661.8
597.6
559.7
530.6
504.3
478.1
451.9
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