

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: P944064

Luminaire Tested: **GALN-SB8D-830-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944064  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-830-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

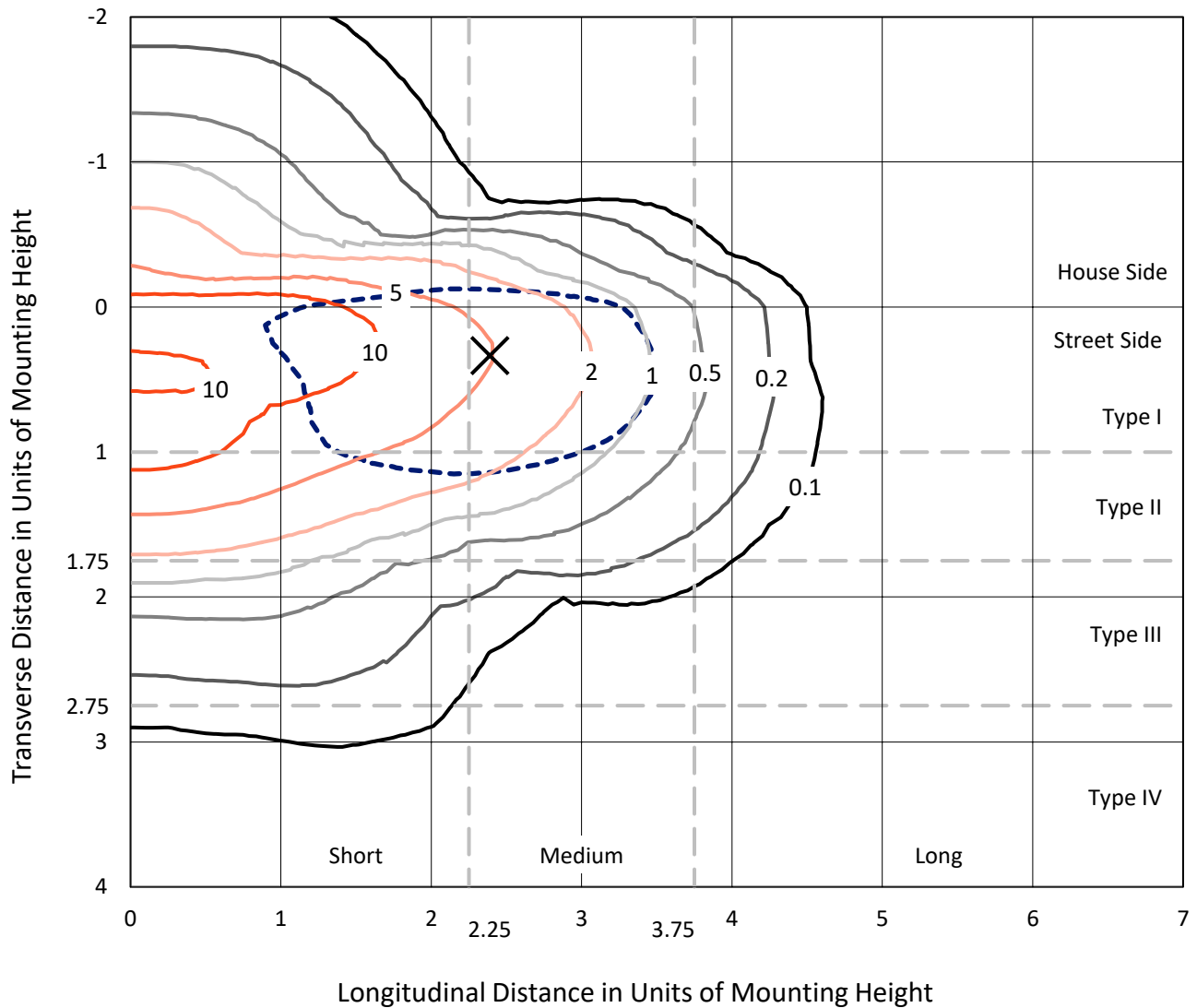
Lumens per Lamp: N/A  
Luminaire Lumens: 53991 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

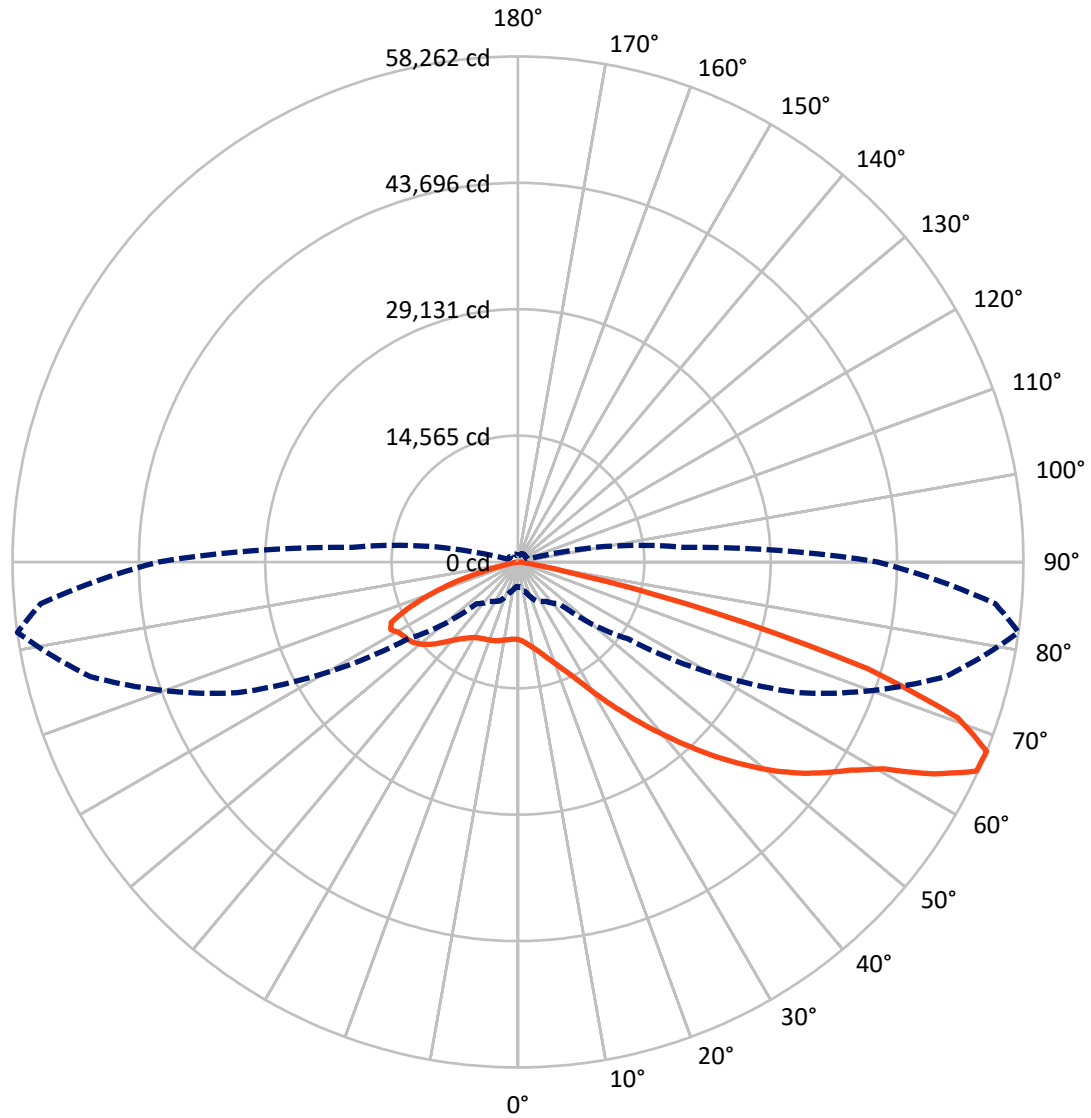
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9780.0	0.0	9780.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	44211.0	0.0	44211.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	53991.0	0.0	53991.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	796.9	1.5
10°-20°	2070.8	3.8
20°-30°	3316.7	6.1
30°-40°	5865.0	10.9
40°-50°	10276.1	19.0
50°-60°	13705.4	25.4
60°-70°	12759.0	23.6
70°-80°	4896.9	9.1
80°-90°	304.1	0.6
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°	53991.0	100.0
0°-180°	53991.0	100.0

**Coefficient of Utilization**



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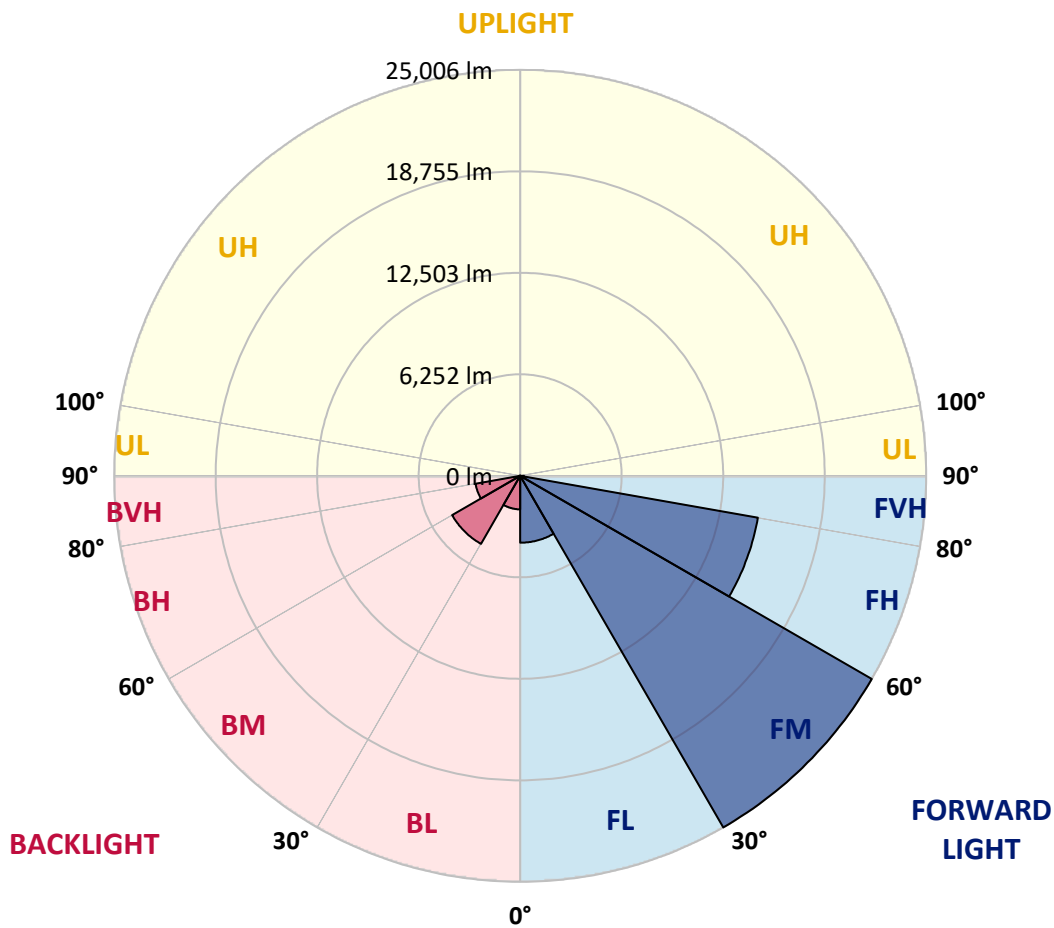
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4118.9	7.6			
FM (30°-60°)	25006.4	46.3			
FH (60°-80°)	14864.6	27.5			G5
FVH (80°-90°)	221.1	0.4			G2/225
BL (0°-30°)	2065.5	3.8	B3/2500		
BM (30°-60°)	4840.1	9.0	B3/5000		
BH (60°-80°)	2791.4	5.2	B4/5000		G4/5000
BVH (80°-90°)	83.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	8944.5	8944.5	8944.5	8944.5	8944.5	8944.5	8944.5	8944.5	8944.5	8944.5
2.5°	9453.7	9508.1	9477.0	9461.5	9434.3	9395.4	9364.3	9267.1	9166.1	9100.0
5°	9644.2	9698.6	9694.7	9710.3	9729.7	9741.4	9733.6	9624.7	9480.9	9368.2
7.5°	9480.9	9543.1	9593.6	9671.4	9807.4	9951.3	10021.2	9997.9	9850.2	9694.7
10°	9018.3	9084.4	9204.9	9387.6	9675.3	9986.3	10246.7	10367.2	10273.9	10102.9
12.5°	8170.9	8237.0	8474.1	8870.6	9352.6	9893.0	10390.5	10713.2	10736.5	10565.5
15°	7218.6	7284.6	7537.3	8034.9	8769.6	9636.4	10468.3	11078.6	11284.6	11136.9
17.5°	6627.7	6686.0	6876.5	7276.9	8042.6	9123.3	10441.1	11467.3	11937.6	11821.0
20°	6448.9	6499.4	6588.8	6868.7	7506.2	8590.7	10262.2	11832.7	12641.2	12575.1
22.5°	6639.4	6686.0	6713.2	6837.6	7238.0	8240.9	10036.8	12205.9	13457.5	13465.3
25°	7078.6	7125.3	7094.2	7171.9	7346.8	8132.1	9951.3	12645.1	14483.8	14569.3
27.5°	7801.6	7805.5	7731.7	7727.8	7755.0	8295.3	10040.7	13115.5	15778.2	15937.6
30°	9251.6	9193.3	8909.5	8602.4	8462.5	8785.1	10289.5	13671.3	17305.9	17589.6
32.5°	11486.7	11401.2	10880.3	10145.6	9407.1	9574.2	10736.5	14305.0	18969.6	19482.7
35°	13912.3	13889.0	13344.8	12252.5	10961.9	10697.6	11463.4	15136.8	20784.9	21601.3
37.5°	16166.9	16155.3	15844.3	14557.6	12987.2	12264.2	12629.6	16225.2	22728.5	23910.3
40°	18227.2	18262.1	17951.2	16800.5	15218.4	14273.9	14215.5	17570.2	24889.8	26425.3
42.5°	20007.5	20046.4	19731.5	18880.2	17422.5	16497.3	16163.0	19218.4	27000.6	29126.9
45°	21216.4	21457.4	21410.8	20730.5	19684.9	18724.7	18503.1	21286.4	29406.8	31991.8
47.5°	21558.5	21780.1	22129.9	22223.2	21585.7	20641.1	20905.4	23778.1	31840.2	34860.5
50°	20715.0	20921.0	21647.9	22615.8	23059.0	22767.4	23241.7	26448.6	34331.9	37721.5
52.5°	19051.2	19261.2	20178.5	21710.1	23517.7	24435.0	25585.6	29080.3	36745.8	40430.9
55°	16645.1	16866.6	18044.5	19778.1	22643.0	25123.1	27540.9	31708.0	38957.7	42868.2
57.5°	13372.0	13535.3	14759.8	17185.4	20442.9	24438.9	28983.1	34576.8	41041.2	45262.7
60°	8715.1	8859.0	10281.7	12987.2	16796.7	22153.2	29270.7	37776.0	43808.9	48376.4
62.5°	5795.8	5893.0	6736.5	8722.9	11828.8	17764.6	27587.6	40329.9	47867.2	53795.2
65°	3976.6	4073.8	4917.3	6301.2	7642.3	11751.1	22748.0	39991.7	51544.5	58098.3
67.5°	2837.7	2919.3	3634.5	4940.7	5531.5	6825.9	15420.6	35669.1	51015.8	58261.6
70°	2033.0	2079.7	2670.5	3848.3	4396.4	4101.0	8575.2	27280.5	44668.0	53799.1
72.5°	1422.7	1438.3	1854.2	2931.0	3541.3	2993.2	4081.6	18188.3	33783.8	42226.8
75°	964.0	983.5	1247.8	2149.6	2841.6	2285.7	2161.3	9753.0	19832.6	23373.8
77.5°	590.9	598.6	804.7	1469.4	2126.3	1741.5	1391.6	4132.1	7673.4	7533.4
80°	334.3	334.3	513.1	913.5	1449.9	1123.4	975.7	1757.0	2429.5	2134.1
82.5°	186.6	190.5	373.2	567.5	960.1	664.7	536.4	812.4	1049.5	929.0
85°	77.7	85.5	229.3	268.2	458.7	330.4	217.7	342.1	388.7	346.0
87.5°	7.8	11.7	70.0	50.5	54.4	66.1	31.1	66.1	54.4	54.4
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°
8944.5	0°	8944.5	8944.5	8944.5	8944.5	8944.5	8944.5	8944.5	8944.5	8944.5	8944.5
9076.6	2.5°	9002.8	8944.5	8796.8	8625.7	8400.3	8291.4	8143.7	8042.6	7957.1	7964.9
9302.1	5°	9177.7	9030.0	8699.6	8287.5	7774.4	7409.0	7020.3	6752.1	6534.4	6487.8
9613.1	7.5°	9418.7	9185.5	8606.3	7863.8	6997.0	6340.0	5753.1	5376.0	5107.8	5022.3
9990.1	10°	9729.7	9391.5	8485.8	7331.3	6083.5	5247.7	4618.0	4322.6	4139.9	4077.7
10433.3	12.5°	10091.2	9628.6	8326.4	6682.1	5142.8	4338.1	3937.7	3790.0	3731.7	3712.3
10977.5	15°	10546.0	9924.1	8085.4	5912.5	4345.9	3782.3	3611.2	3591.8	3599.6	3591.8
11630.5	17.5°	11086.3	10246.7	7692.8	5119.5	3809.5	3498.5	3436.3	3451.8	3471.3	3467.4
12361.3	20°	11677.2	10565.5	7191.3	4415.9	3444.1	3296.4	3261.4	3276.9	3292.5	3284.7
13204.9	22.5°	12349.7	10907.5	6635.5	3867.8	3199.2	3109.8	3070.9	3074.8	3074.8	3059.2
14273.9	25°	13154.3	11284.6	6052.4	3479.1	3012.6	2942.6	2896.0	2880.4	2857.1	2810.5
15572.2	27.5°	14114.5	11685.0	5492.6	3207.0	2864.9	2798.8	2744.4	2705.5	2647.2	2569.4
17131.0	30°	15195.1	12170.9	5018.4	3035.9	2748.3	2682.2	2620.0	2561.7	2476.2	2379.0
18923.0	32.5°	16466.2	12691.8	4672.4	2923.2	2643.3	2573.3	2499.5	2429.5	2336.2	2239.0
20936.5	35°	17982.3	13321.5	4470.3	2845.4	2561.7	2468.4	2386.7	2309.0	2239.0	2153.5
23125.0	37.5°	19626.5	13990.1	4408.1	2806.6	2507.3	2363.4	2270.1	2215.7	2207.9	2157.4
25492.4	40°	21426.3	14783.1	4454.7	2783.2	2448.9	2262.4	2161.3	2149.6	2169.1	2079.7
28022.9	42.5°	23331.1	15723.8	4532.5	2756.0	2367.3	2161.3	2064.1	2064.1	2048.6	1924.2
30697.3	45°	25391.3	16808.3	4610.2	2690.0	2270.1	2060.2	1986.4	1959.2	1893.1	1772.6
33387.3	47.5°	27467.1	17912.3	4668.5	2569.4	2153.5	1974.7	1908.6	1846.4	1749.2	1640.4
36026.7	50°	29437.9	18903.5	4606.3	2390.6	2021.4	1893.1	1823.1	1737.6	1632.6	1558.8
38526.2	52.5°	31198.8	19762.6	4342.0	2180.7	1881.4	1807.6	1745.4	1656.0	1570.4	1492.7
40780.8	55°	32730.3	20458.4	3875.6	1982.5	1757.0	1733.7	1671.5	1558.8	1442.2	1376.1
43015.9	57.5°	34199.7	20987.1	3292.5	1819.2	1644.3	1652.1	1558.8	1457.7	1348.9	1278.9
46028.5	60°	36155.0	21694.5	2701.6	1667.6	1523.8	1547.1	1446.0	1372.2	1236.1	1146.7
51194.6	62.5°	39280.3	22794.6	2145.7	1481.0	1383.8	1391.6	1348.9	1259.5	1096.2	991.2
55023.5	65°	41760.4	22390.4	1690.9	1278.9	1224.5	1236.1	1236.1	1139.0	964.0	843.5
55229.5	67.5°	41480.5	19171.7	1348.9	1080.6	1072.9	1080.6	1107.9	1026.2	855.2	758.0
51023.6	70°	38211.3	15249.5	1080.6	897.9	932.9	913.5	991.2	936.8	769.7	672.5
39556.3	72.5°	31179.4	10985.3	824.1	742.5	715.2	746.3	894.1	843.5	641.4	532.5
20952.1	75°	18219.4	5861.9	614.2	587.0	517.0	622.0	793.0	719.1	489.8	392.6
6421.7	77.5°	5931.9	2044.7	450.9	431.5	384.8	501.5	676.4	606.4	400.4	311.0
1881.4	80°	1589.9	618.1	307.1	283.8	248.8	373.2	536.4	482.0	287.7	202.1
808.5	82.5°	637.5	260.4	178.8	159.4	136.1	256.6	423.7	388.7	213.8	128.3
252.7	85°	206.0	85.5	66.1	50.5	62.2	159.4	252.7	264.3	151.6	66.1
38.9	87.5°	27.2	11.7	11.7	15.5	11.7	27.2	77.7	73.9	42.8	7.8
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>
8944.5
7887.2
6382.8
4936.8
4031.0
3700.6
3587.9
3459.6
3280.8
3051.5
2802.7
2561.7
2371.2
2242.9
2145.7
2153.5
2083.5
1924.2
1768.7
1636.5
1547.1
1484.9
1368.3
1271.1
1135.1
983.5
831.9
742.5
660.8
520.9
380.9
299.3
198.2
128.3
50.5
0.0
0.0

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