

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: P957571

Luminaire Tested: **GALN-SB9D-850-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957571  
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-850-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

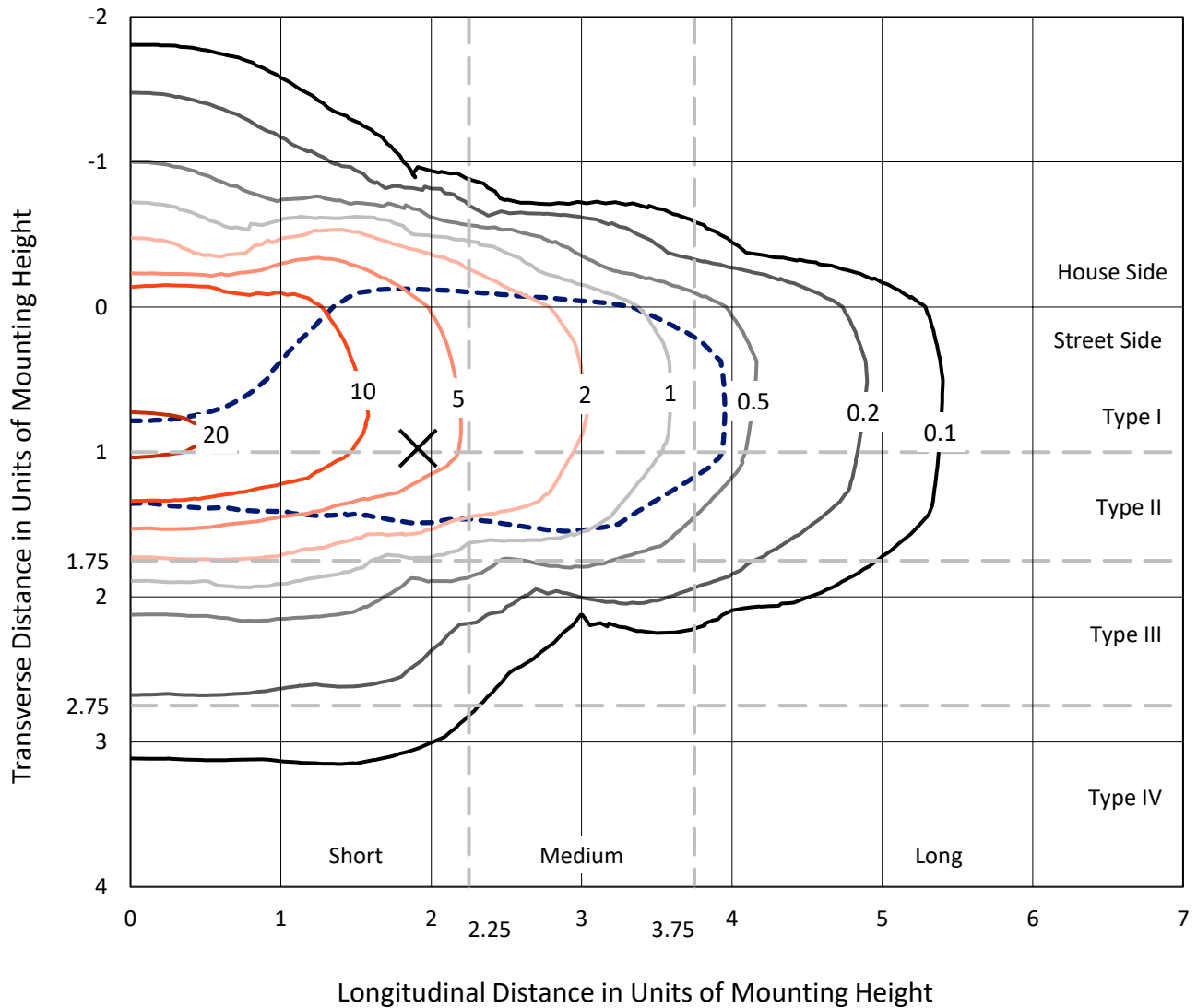
Lumens per Lamp: N/A  
Luminaire Lumens: 67756 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

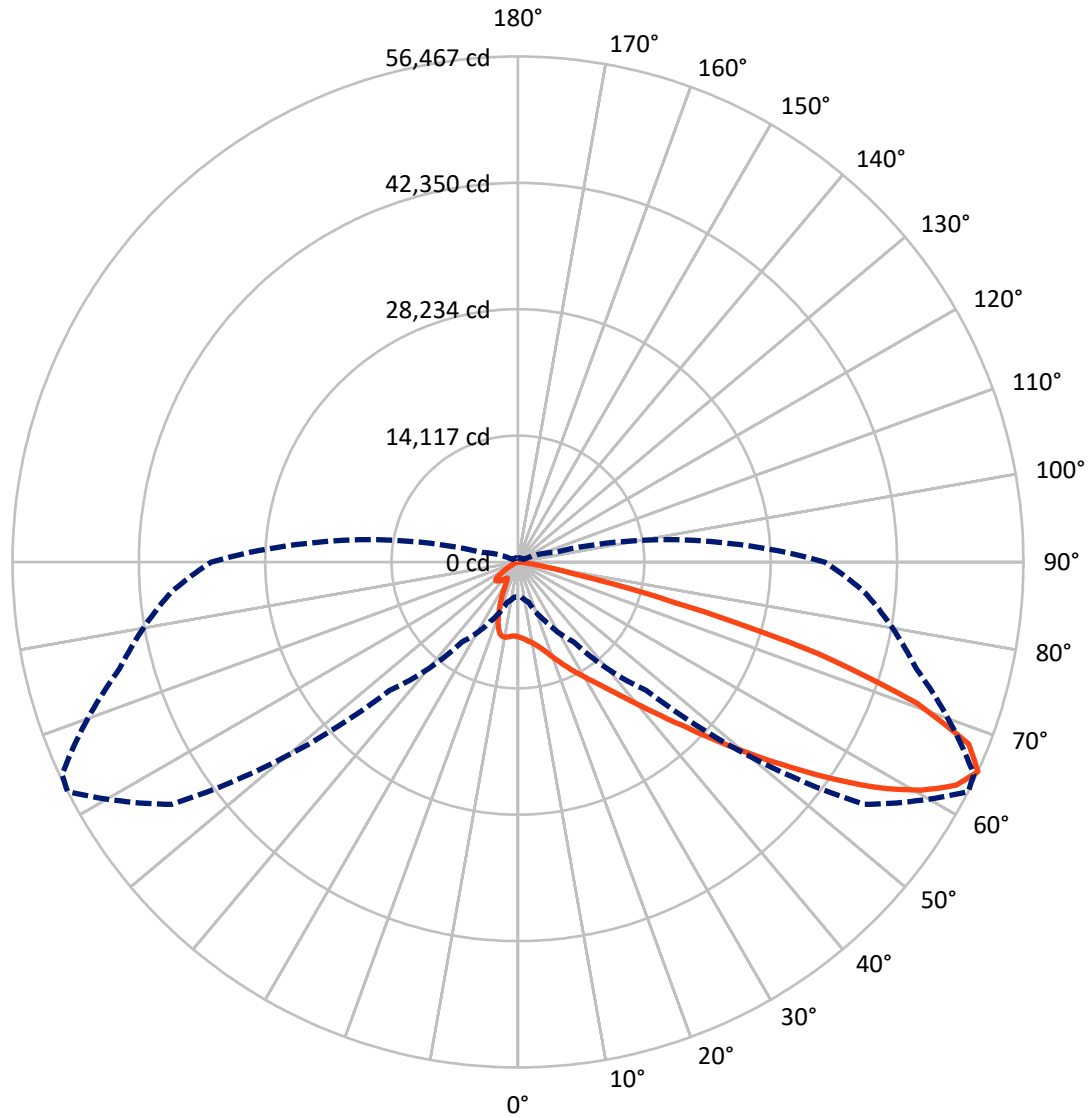
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.9 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
<b>House Side</b>	Lumens	9959.6	0.0	9959.6
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	57796.4	0.0	57796.4
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	67756.0	0.0	67756.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	787.9	1.2
10°-20°	2186.1	3.2
20°-30°	3806.6	5.6
30°-40°	6861.0	10.1
40°-50°	13607.5	20.1
50°-60°	18535.6	27.4
60°-70°	14795.0	21.8
70°-80°	6695.1	9.9
80°-90°	481.2	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°	67756.0	100.0
0°-180°	67756.0	100.0

**Coefficient of Utilization**



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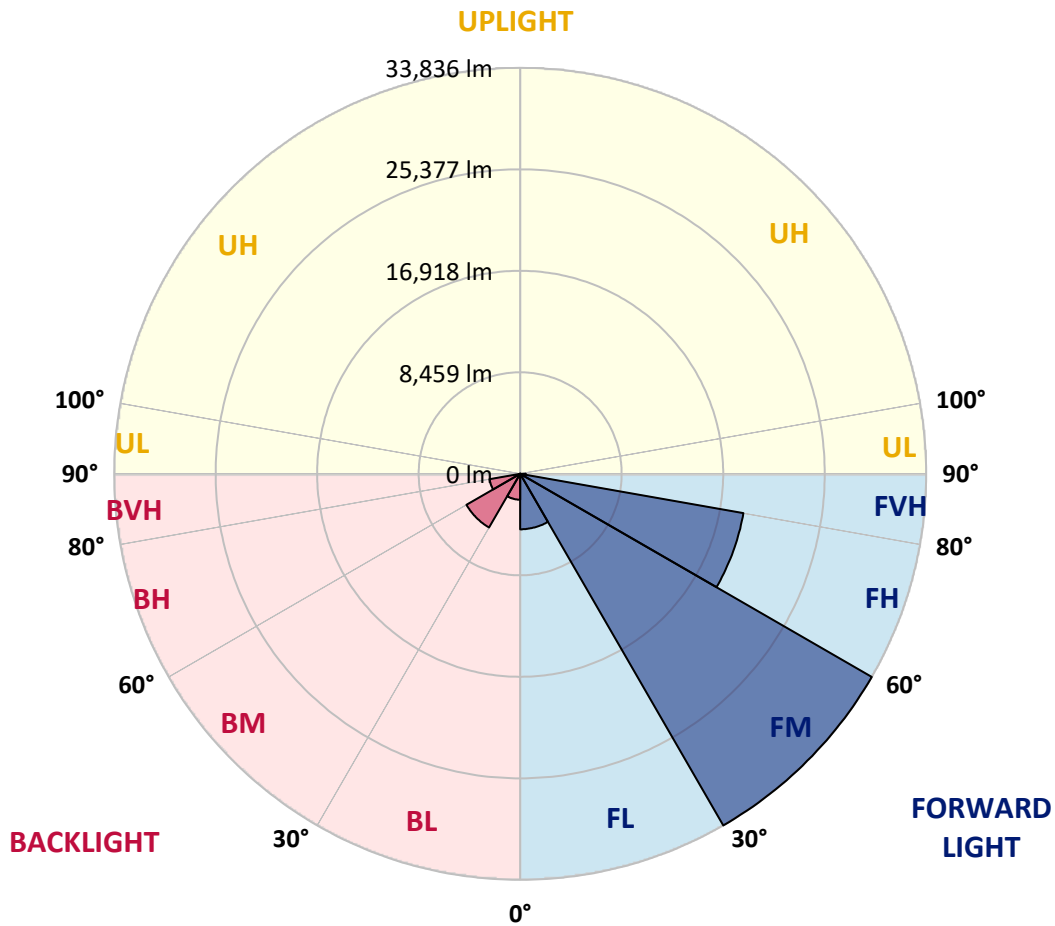
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4625.2	6.8			
FM (30°-60°)	33835.6	49.9			
FH (60°-80°)	18890.1	27.9			G5
FVH (80°-90°)	445.5	0.7			G3/500
BL (0°-30°)	2155.4	3.2	B3/2500		
BM (30°-60°)	5168.4	7.6	B4/8500		
BH (60°-80°)	2600.0	3.8	B4/5000		G4/5000
BVH (80°-90°)	35.7	0.1			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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	8362.4	8362.4	8362.4	8362.4	8362.4	8362.4	8362.4	8362.4	8362.4	8362.4
2.5°	8558.1	8534.8	8567.5	8553.5	8544.2	8525.5	8516.2	8506.9	8488.2	8474.2
5°	8581.5	8567.5	8600.1	8628.1	8656.0	8684.0	8698.0	8716.6	8698.0	8660.7
7.5°	8385.7	8376.4	8446.3	8530.2	8656.0	8763.2	8879.8	8945.0	8949.7	8935.7
10°	8371.7	8348.4	8418.3	8520.9	8684.0	8875.1	9080.2	9220.0	9238.7	9299.3
12.5°	8590.8	8567.5	8665.4	8777.2	8945.0	9145.5	9397.2	9593.0	9620.9	9704.8
15°	8959.0	8926.4	9038.3	9182.8	9397.2	9625.6	9891.3	10068.4	10091.7	10194.3
17.5°	9387.9	9355.2	9485.7	9639.6	9872.6	10184.9	10492.6	10688.4	10716.3	10781.6
20°	9937.9	9895.9	9998.5	10138.3	10385.4	10758.3	11126.5	11406.2	11401.5	11401.5
22.5°	10576.5	10511.2	10599.8	10711.7	10944.7	11396.9	11886.3	12217.3	12217.3	12086.7
25°	11261.7	11196.4	11294.3	11396.9	11602.0	12114.7	12688.1	13098.3	13116.9	12893.2
27.5°	12119.4	12035.5	12110.1	12231.2	12352.4	12874.5	13555.1	14030.5	14039.8	13694.9
30°	13769.5	13531.8	13298.7	13168.2	13224.1	13741.5	14468.7	14995.4	15042.0	14566.6
32.5°	16790.0	16743.4	15923.0	14850.9	14291.5	14673.8	15489.5	16123.4	16151.4	15540.8
35°	21483.9	21428.0	20108.8	18067.2	16244.6	15923.0	16729.4	17479.9	17461.2	16771.4
37.5°	27086.8	27035.5	25296.9	22565.3	19614.7	17810.8	18328.2	19116.0	19232.5	18328.2
40°	31874.0	31682.9	30582.8	27949.1	24089.6	20943.2	20602.9	21125.0	21246.2	20174.1
42.5°	35500.5	35337.3	34778.0	33132.5	29506.0	25576.5	23283.2	23483.6	23618.8	22332.3
45°	37379.0	37341.7	37565.4	37411.6	35025.0	31263.3	27114.8	26280.4	26331.7	24723.5
47.5°	37644.7	37626.0	38646.8	40091.8	39770.2	37677.3	32032.4	29767.1	29585.3	27422.4
50°	36078.5	36041.2	37998.9	40707.1	42939.9	43065.7	37616.7	33696.5	33295.7	30214.5
52.5°	31076.9	31067.6	34283.9	38791.3	44053.9	47783.0	43135.7	38012.9	37341.7	33169.8
55°	23912.5	24084.9	27772.0	33099.9	42021.6	50053.0	48090.6	42804.7	41774.6	36143.7
57.5°	16939.2	17190.9	20836.0	25581.2	35719.5	48710.6	51442.1	47605.8	46496.5	39108.3
60°	9098.9	9322.6	12972.4	18635.9	26574.1	43704.3	53208.7	51773.0	50724.3	41923.7
62.5°	5421.1	5495.7	7005.9	12030.8	17974.0	33388.9	52458.3	54947.4	54085.1	44287.0
65°	3892.2	3906.2	4666.0	7346.2	10912.1	20286.0	47195.7	56467.0	56201.3	46067.6
67.5°	3276.9	3267.6	3584.5	4880.4	7434.8	10161.6	36171.7	54318.1	55446.2	47195.7
70°	2810.8	2824.7	3197.7	3575.2	5588.9	5752.0	17983.3	47293.5	49698.8	47494.0
72.5°	2092.9	2139.5	2484.5	3258.2	4218.5	3957.4	6208.9	35067.0	39415.9	44748.5
75°	1477.6	1500.9	1748.0	2740.8	3146.4	2880.7	3169.7	18127.8	23702.7	34307.2
77.5°	1137.4	1179.3	1323.8	1915.8	3099.8	2023.0	1939.1	6274.1	9639.6	20724.1
80°	615.3	689.9	955.6	1384.4	2176.8	1431.0	960.2	2498.5	3267.6	9690.8
82.5°	317.0	354.3	666.6	997.5	1239.9	1249.2	475.5	1039.5	1347.1	2992.6
85°	125.9	153.8	447.5	550.0	638.6	615.3	214.4	419.5	484.8	829.7
87.5°	28.0	46.6	163.1	125.9	121.2	130.5	51.3	97.9	93.2	97.9
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°
8362.4	0°	8362.4	8362.4	8362.4	8362.4	8362.4	8362.4	8362.4	8362.4	8362.4	8362.4
8418.3	2.5°	8413.6	8395.0	8343.7	8287.8	8222.5	8185.2	8161.9	8157.3	8124.6	8101.3
8604.8	5°	8553.5	8534.8	8437.0	8320.4	8194.6	8096.7	8003.5	7919.5	7798.4	7775.0
8875.1	7.5°	8833.2	8781.9	8623.4	8464.9	8227.2	7942.9	7597.9	7201.7	6847.4	6740.2
9234.0	10°	9178.1	9108.2	8907.7	8628.1	8101.3	7327.6	6493.2	5719.4	5104.1	4931.7
9658.2	12.5°	9569.6	9509.1	9243.4	8726.0	7574.6	6171.6	4894.4	3934.1	3337.5	3188.3
10110.4	15°	10035.8	9947.2	9579.0	8576.8	6633.0	4689.3	3360.8	2792.1	2577.7	2549.7
10627.8	17.5°	10529.9	10385.4	9877.3	8040.7	5365.2	3332.8	2596.3	2433.2	2340.0	2312.0
11149.8	20°	10982.0	10795.6	10054.4	7229.7	4008.7	2596.3	2326.0	2218.8	2134.9	2102.2
11671.9	22.5°	11434.2	11168.5	10054.4	6124.9	3006.5	2302.7	2134.9	2037.0	1939.1	1897.1
12231.2	25°	11905.0	11550.7	9877.3	4894.4	2419.2	2111.6	1953.1	1845.9	1762.0	1710.7
12762.6	27.5°	12361.8	11872.3	9471.8	3729.0	2153.5	1943.8	1785.3	1682.7	1603.5	1566.2
13340.6	30°	12795.3	12189.3	8903.1	2829.4	1981.1	1780.6	1631.5	1542.9	1463.6	1426.4
14091.1	32.5°	13382.6	12590.2	8297.1	2321.3	1831.9	1626.8	1491.6	1407.7	1337.8	1309.8
15065.3	35°	14198.3	13182.2	7775.0	2279.4	1706.0	1500.9	1365.8	1286.5	1216.6	1193.3
16323.9	37.5°	15354.3	14137.7	7500.0	2559.1	1603.5	1389.1	1263.2	1179.3	1114.1	1095.4
17922.7	40°	16780.7	15433.6	7649.2	2838.7	1533.6	1291.2	1170.0	1086.1	1030.1	1006.8
19759.2	42.5°	18472.7	17032.4	8474.2	3053.2	1487.0	1207.3	1081.4	988.2	950.9	941.6
21842.8	45°	20416.5	18789.7	9737.5	3281.6	1412.4	1128.0	992.9	922.9	895.0	890.3
24108.2	47.5°	22625.9	20719.5	11201.1	3565.9	1337.8	1053.5	922.9	876.3	853.0	843.7
26471.5	50°	24816.8	22663.2	12706.7	3724.4	1277.2	983.5	867.0	829.7	811.1	806.4
28970.0	52.5°	27110.1	24662.9	13923.3	3575.2	1225.9	927.6	820.4	792.4	773.8	769.1
31272.7	55°	29296.3	26280.4	14133.1	3034.5	1123.4	871.7	769.1	755.1	731.8	731.8
33608.0	57.5°	31179.4	27091.5	12650.8	2228.1	1020.8	787.8	717.8	703.9	685.2	680.5
35714.9	60°	32908.8	26858.4	9765.4	1500.9	909.0	703.9	652.6	643.3	624.6	601.3
37546.8	62.5°	33883.0	25832.9	6679.6	978.9	797.1	615.3	578.0	573.3	531.4	484.8
38903.2	65°	34251.2	23726.0	4167.2	713.2	666.6	526.7	498.8	489.4	428.8	377.6
39672.3	67.5°	33929.6	20258.0	2102.2	564.0	526.7	438.2	410.2	410.2	368.2	321.6
39625.7	70°	32643.1	15186.5	885.6	452.1	405.5	335.6	335.6	354.3	312.3	261.0
37570.1	72.5°	29851.0	10217.6	470.8	344.9	303.0	237.7	275.0	289.0	247.0	195.8
30750.6	75°	23730.7	6232.2	326.3	256.4	191.1	167.8	209.8	219.1	167.8	130.5
21083.1	77.5°	16230.6	3579.9	219.1	163.1	121.2	97.9	144.5	135.2	88.6	60.6
8129.3	80°	7127.1	1491.6	125.9	74.6	46.6	37.3	51.3	37.3	28.0	18.6
1114.1	82.5°	834.4	349.6	46.6	28.0	18.6	9.3	4.7	0.0	0.0	0.0
340.3	85°	172.5	42.0	23.3	9.3	4.7	0.0	0.0	0.0	0.0	0.0
60.6	87.5°	32.6	9.3	4.7	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

180°
8362.4
8124.6
7765.7
6689.0
4866.4
3146.4
2521.8
2298.0
2083.6
1873.8
1692.1
1566.2
1431.0
1309.8
1193.3
1090.7
1002.2
941.6
885.6
843.7
806.4
769.1
727.2
675.9
596.6
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