

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: P943804

Luminaire Tested: **GALN-SB8B-950-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943804
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-SB8B-950-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 450mA 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: 23130 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

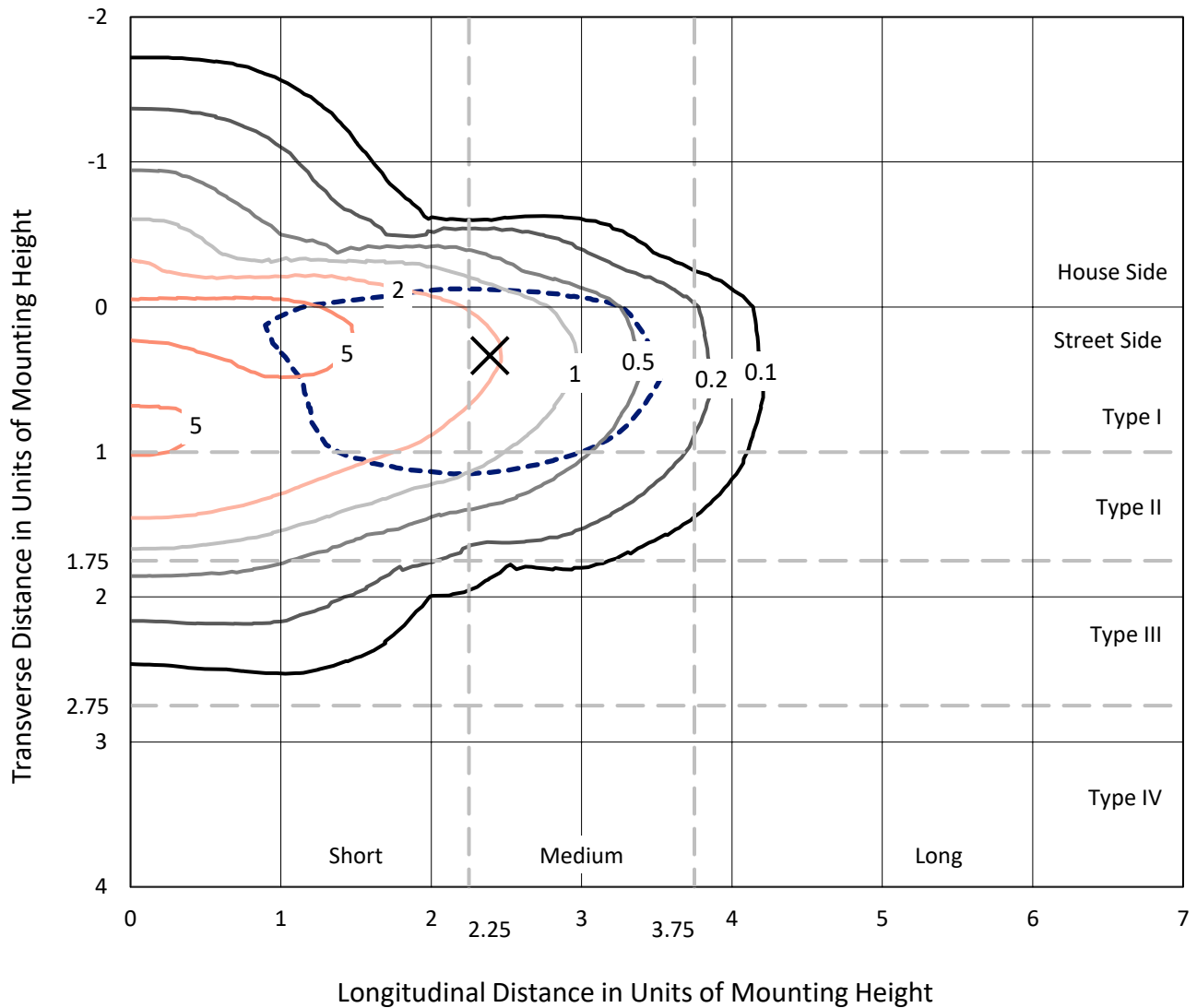
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

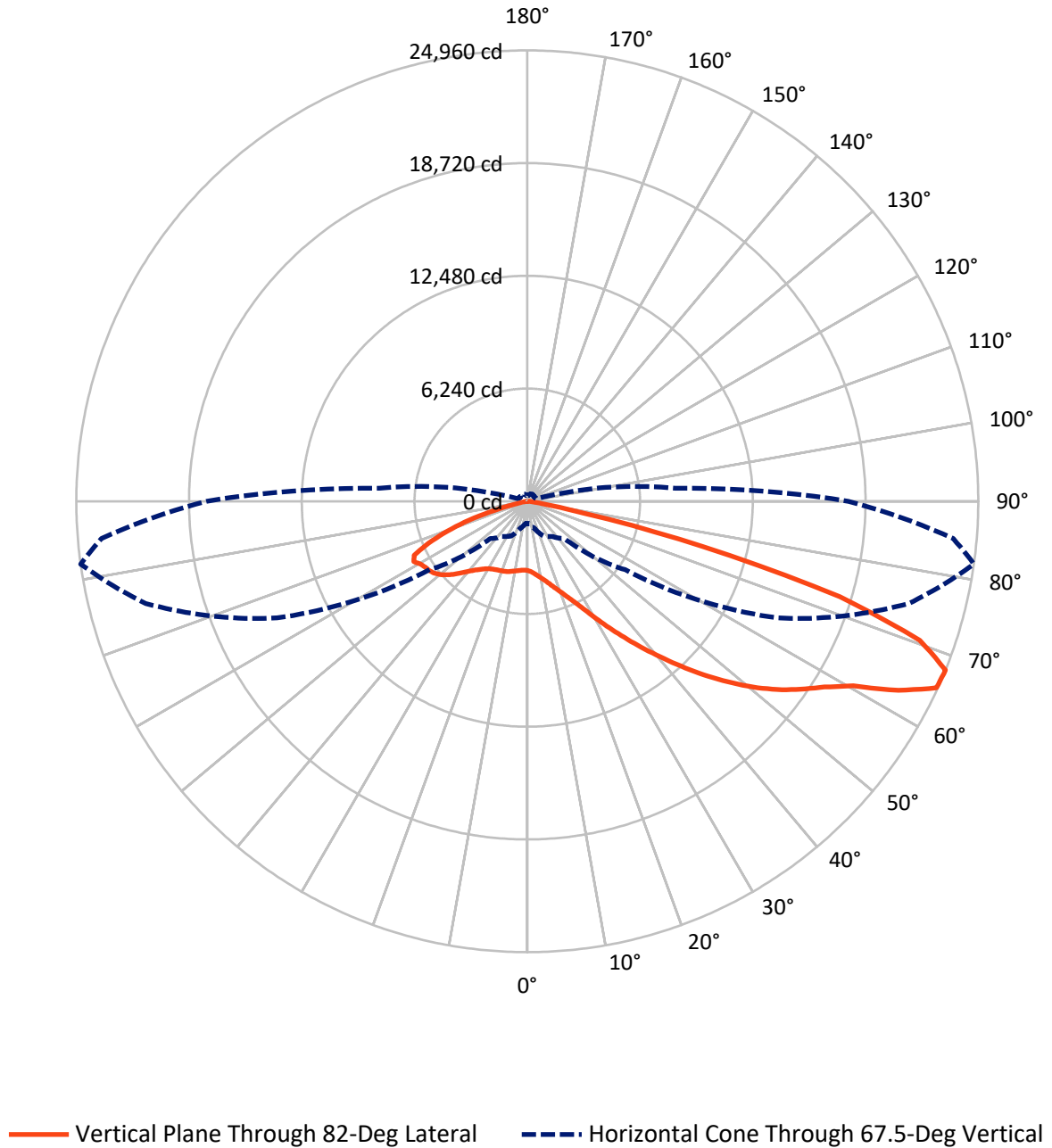
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4189.8	0.0	4189.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	18940.2	0.0	18940.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	23130.0	0.0	23130.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.4	1.5
10°-20°	887.1	3.8
20°-30°	1420.9	6.1
30°-40°	2512.6	10.9
40°-50°	4402.3	19.0
50°-60°	5871.5	25.4
60°-70°	5466.0	23.6
70°-80°	2097.9	9.1
80°-90°	130.3	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°	23130.0	100.0
0°-180°	23130.0	100.0

Coefficient of Utilization



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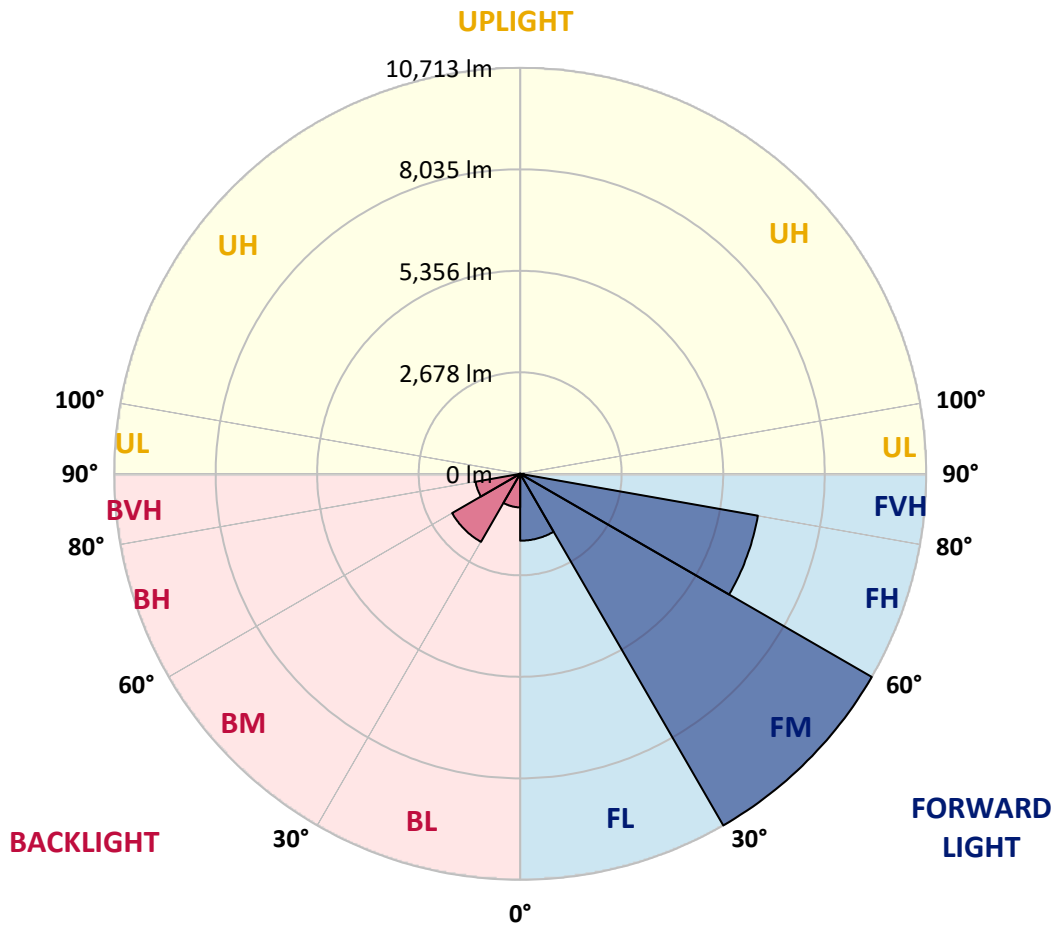
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1764.6	7.6			
FM (30°-60°)	10712.9	46.3			
FH (60°-80°)	6368.0	27.5			G3/7500
FVH (80°-90°)	94.7	0.4			G1/100
BL (0°-30°)	884.9	3.8	B2/1000		
BM (30°-60°)	2073.5	9.0	B2/2500		
BH (60°-80°)	1195.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	35.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3831.9	3831.9	3831.9	3831.9	3831.9	3831.9	3831.9	3831.9	3831.9	3831.9
2.5°	4050.0	4073.3	4060.0	4053.3	4041.7	4025.0	4011.7	3970.1	3926.8	3898.5
5°	4131.6	4154.9	4153.3	4159.9	4168.2	4173.2	4169.9	4123.3	4061.7	4013.4
7.5°	4061.7	4088.3	4110.0	4143.3	4201.6	4263.2	4293.1	4283.2	4219.9	4153.3
10°	3863.5	3891.8	3943.4	4021.7	4144.9	4278.2	4389.7	4441.4	4401.4	4328.1
12.5°	3500.5	3528.8	3630.4	3800.2	4006.7	4238.2	4451.4	4589.6	4599.6	4526.3
15°	3092.5	3120.8	3229.0	3442.2	3756.9	4128.3	4484.7	4746.1	4834.4	4771.1
17.5°	2839.3	2864.3	2945.9	3117.4	3445.5	3908.5	4473.0	4912.6	5114.1	5064.2
20°	2762.7	2784.4	2822.7	2942.6	3215.7	3680.3	4396.4	5069.2	5415.6	5387.2
22.5°	2844.3	2864.3	2876.0	2929.3	3100.8	3530.4	4299.8	5229.0	5765.3	5768.6
25°	3032.5	3052.5	3039.2	3072.5	3147.4	3483.8	4263.2	5417.2	6204.9	6241.5
27.5°	3342.3	3343.9	3312.3	3310.6	3322.3	3553.8	4301.5	5618.7	6759.5	6827.7
30°	3963.4	3938.4	3816.9	3685.3	3625.4	3763.6	4408.1	5856.9	7413.9	7535.5
32.5°	4921.0	4884.3	4661.2	4346.4	4030.0	4101.6	4599.6	6128.3	8126.7	8346.5
35°	5960.1	5950.1	5717.0	5249.0	4696.1	4582.9	4911.0	6484.7	8904.4	9254.1
37.5°	6926.0	6921.0	6787.8	6236.6	5563.8	5254.0	5410.6	6951.0	9737.0	10243.3
40°	7808.6	7823.6	7690.4	7197.4	6519.7	6115.0	6090.0	7527.2	10662.9	11320.7
42.5°	8571.3	8588.0	8453.1	8088.4	7463.9	7067.5	6924.3	8233.2	11567.2	12478.1
45°	9089.2	9192.5	9172.5	8881.1	8433.1	8021.8	7926.8	9119.2	12598.0	13705.4
47.5°	9235.8	9330.7	9480.6	9520.5	9247.4	8842.7	8956.0	10186.6	13640.5	14934.4
50°	8874.4	8962.7	9274.1	9688.7	9878.6	9753.7	9956.8	11330.7	14707.9	16160.1
52.5°	8161.6	8251.6	8644.6	9300.7	10075.1	10468.1	10961.0	12458.1	15742.1	17320.8
55°	7130.8	7225.7	7730.3	8473.1	9700.4	10762.8	11798.7	13583.9	16689.6	18364.9
57.5°	5728.6	5798.6	6323.1	7362.3	8757.8	10469.7	12416.5	14812.9	17582.3	19390.8
60°	3733.6	3795.2	4404.7	5563.8	7195.8	9490.6	12539.7	16183.4	18767.9	20724.7
62.5°	2483.0	2524.6	2886.0	3736.9	5067.5	7610.4	11818.6	17277.5	20506.5	23046.1
65°	1703.6	1745.2	2106.6	2699.5	3274.0	5034.2	9745.3	17132.6	22081.9	24889.6
67.5°	1215.7	1250.6	1557.1	2116.6	2369.7	2924.3	6606.3	15280.8	21855.4	24959.5
70°	871.0	890.9	1144.1	1648.6	1883.5	1756.9	3673.7	11687.1	19136.0	23047.8
72.5°	609.5	616.2	794.3	1255.6	1517.1	1282.3	1748.6	7791.9	14473.1	18090.2
75°	413.0	421.3	534.6	920.9	1217.3	979.2	925.9	4178.2	8496.4	10013.5
77.5°	253.1	256.5	344.7	629.5	910.9	746.1	596.2	1770.2	3287.3	3227.4
80°	143.2	143.2	219.8	391.3	621.2	481.3	418.0	752.7	1040.8	914.3
82.5°	79.9	81.6	159.9	243.1	411.3	284.8	229.8	348.0	449.6	398.0
85°	33.3	36.6	98.3	114.9	196.5	141.6	93.3	146.5	166.5	148.2
87.5°	3.3	5.0	30.0	21.6	23.3	28.3	13.3	28.3	23.3	23.3
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°
3831.9	0°	3831.9	3831.9	3831.9	3831.9	3831.9	3831.9	3831.9	3831.9	3831.9	3831.9
3888.5	2.5°	3856.8	3831.9	3768.6	3695.3	3598.7	3552.1	3488.8	3445.5	3408.9	3412.2
3985.1	5°	3931.8	3868.5	3726.9	3550.4	3330.6	3174.1	3007.5	2892.6	2799.4	2779.4
4118.3	7.5°	4035.0	3935.1	3687.0	3368.9	2997.5	2716.1	2464.6	2303.1	2188.2	2151.6
4279.8	10°	4168.2	4023.4	3635.4	3140.8	2606.2	2248.2	1978.4	1851.8	1773.5	1746.9
4469.7	12.5°	4323.1	4125.0	3567.1	2862.7	2203.2	1858.5	1687.0	1623.7	1598.7	1590.4
4702.8	15°	4518.0	4251.5	3463.8	2532.9	1861.8	1620.3	1547.1	1538.7	1542.1	1538.7
4982.6	17.5°	4749.4	4389.7	3295.6	2193.2	1632.0	1498.8	1472.1	1478.8	1487.1	1485.4
5295.7	20°	5002.6	4526.3	3080.8	1891.8	1475.5	1412.2	1397.2	1403.8	1410.5	1407.2
5657.0	22.5°	5290.7	4672.8	2842.7	1657.0	1370.5	1332.2	1315.6	1317.3	1317.3	1310.6
6115.0	25°	5635.4	4834.4	2592.9	1490.4	1290.6	1260.6	1240.6	1234.0	1224.0	1204.0
6671.2	27.5°	6046.7	5005.9	2353.1	1373.9	1227.3	1199.0	1175.7	1159.0	1134.1	1100.8
7339.0	30°	6509.7	5214.1	2149.9	1300.6	1177.4	1149.1	1122.4	1097.4	1060.8	1019.2
8106.7	32.5°	7054.2	5437.2	2001.7	1252.3	1132.4	1102.4	1070.8	1040.8	1000.8	959.2
8969.3	35°	7703.7	5707.0	1915.1	1219.0	1097.4	1057.5	1022.5	989.2	959.2	922.6
9906.9	37.5°	8408.1	5993.4	1888.5	1202.3	1074.1	1012.5	972.5	949.2	945.9	924.2
10921.0	40°	9179.1	6333.1	1908.4	1192.4	1049.1	969.2	925.9	920.9	929.2	890.9
12005.2	42.5°	9995.1	6736.1	1941.7	1180.7	1014.2	925.9	884.3	884.3	877.6	824.3
13150.9	45°	10877.7	7200.8	1975.0	1152.4	972.5	882.6	851.0	839.3	811.0	759.4
14303.3	47.5°	11767.0	7673.7	2000.0	1100.8	922.6	846.0	817.7	791.0	749.4	702.8
15434.0	50°	12611.3	8098.4	1973.4	1024.2	866.0	811.0	781.0	744.4	699.4	667.8
16504.8	52.5°	13365.7	8466.4	1860.1	934.2	806.0	774.4	747.7	709.4	672.8	639.5
17470.7	55°	14021.8	8764.5	1660.3	849.3	752.7	742.7	716.1	667.8	617.8	589.5
18428.2	57.5°	14651.3	8991.0	1410.5	779.4	704.4	707.8	667.8	624.5	577.9	547.9
19718.8	60°	15489.0	9294.0	1157.4	714.4	652.8	662.8	619.5	587.9	529.6	491.3
21932.0	62.5°	16827.9	9765.3	919.2	634.5	592.8	596.2	577.9	539.6	469.6	424.7
23572.3	65°	17890.3	9592.1	724.4	547.9	524.6	529.6	529.6	487.9	413.0	361.4
23660.6	67.5°	17770.4	8213.3	577.9	463.0	459.6	463.0	474.6	439.6	366.4	324.7
21858.7	70°	16369.9	6533.0	463.0	384.7	399.7	391.3	424.7	401.3	329.7	288.1
16946.1	72.5°	13357.4	4706.1	353.0	318.1	306.4	319.7	383.0	361.4	274.8	228.1
8976.0	75°	7805.3	2511.3	263.1	251.5	221.5	266.4	339.7	308.1	209.8	168.2
2751.1	77.5°	2541.2	875.9	193.2	184.8	164.9	214.8	289.8	259.8	171.5	133.2
806.0	80°	681.1	264.8	131.6	121.6	106.6	159.9	229.8	206.5	123.2	86.6
346.4	82.5°	273.1	111.6	76.6	68.3	58.3	109.9	181.5	166.5	91.6	55.0
108.2	85°	88.3	36.6	28.3	21.6	26.6	68.3	108.2	113.2	64.9	28.3
16.7	87.5°	11.7	5.0	5.0	6.7	5.0	11.7	33.3	31.6	18.3	3.3
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>
3831.9
3378.9
2734.4
2114.9
1726.9
1585.4
1537.1
1482.1
1405.5
1307.3
1200.7
1097.4
1015.8
960.9
919.2
922.6
892.6
824.3
757.7
701.1
662.8
636.1
586.2
544.6
486.3
421.3
356.4
318.1
283.1
223.2
163.2
128.2
84.9
55.0
21.6
0.0
0.0

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