

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: P940614

Luminaire Tested: **GALN-SB3D-735-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940614
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-SB3D-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 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: 22295 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

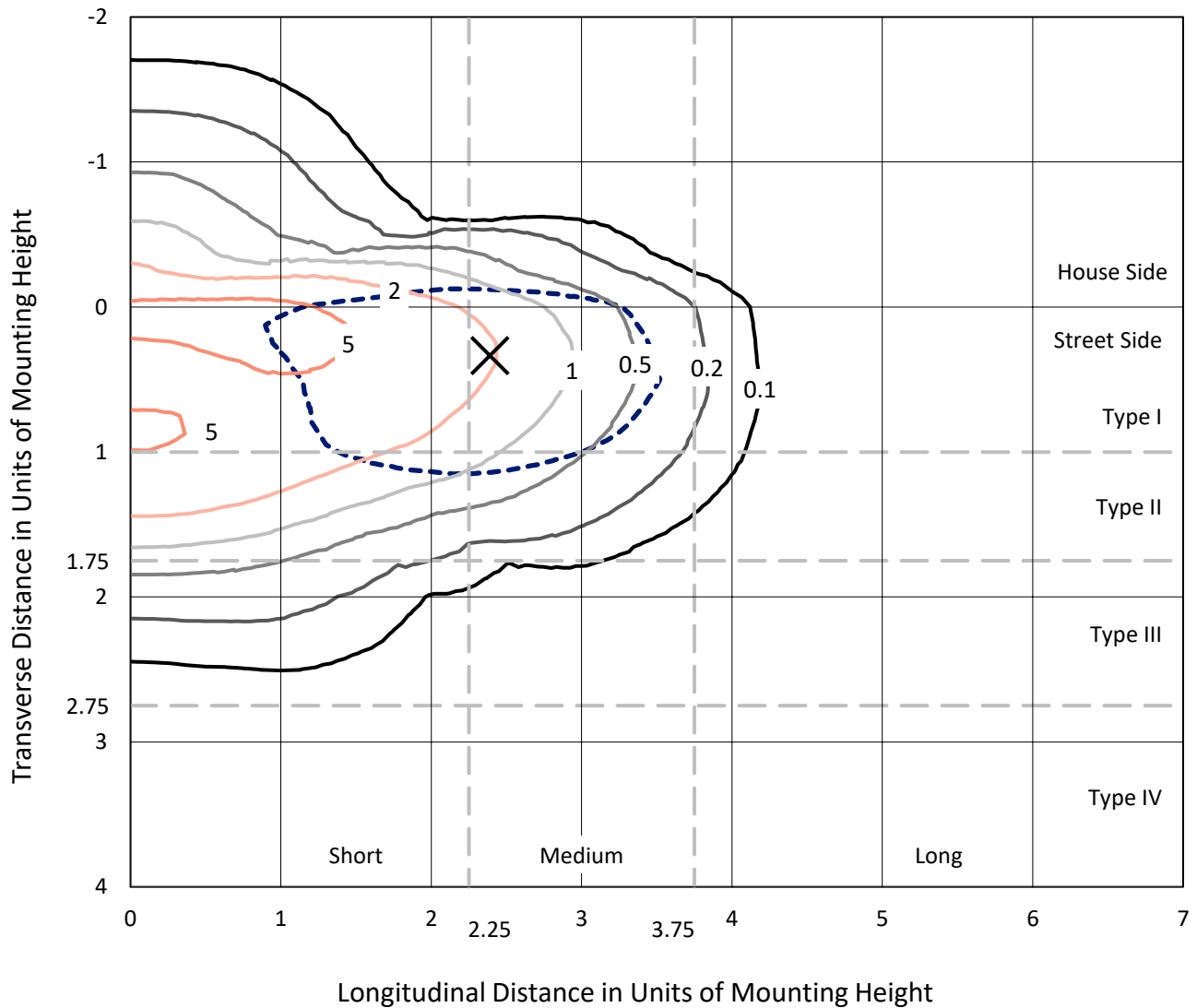
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

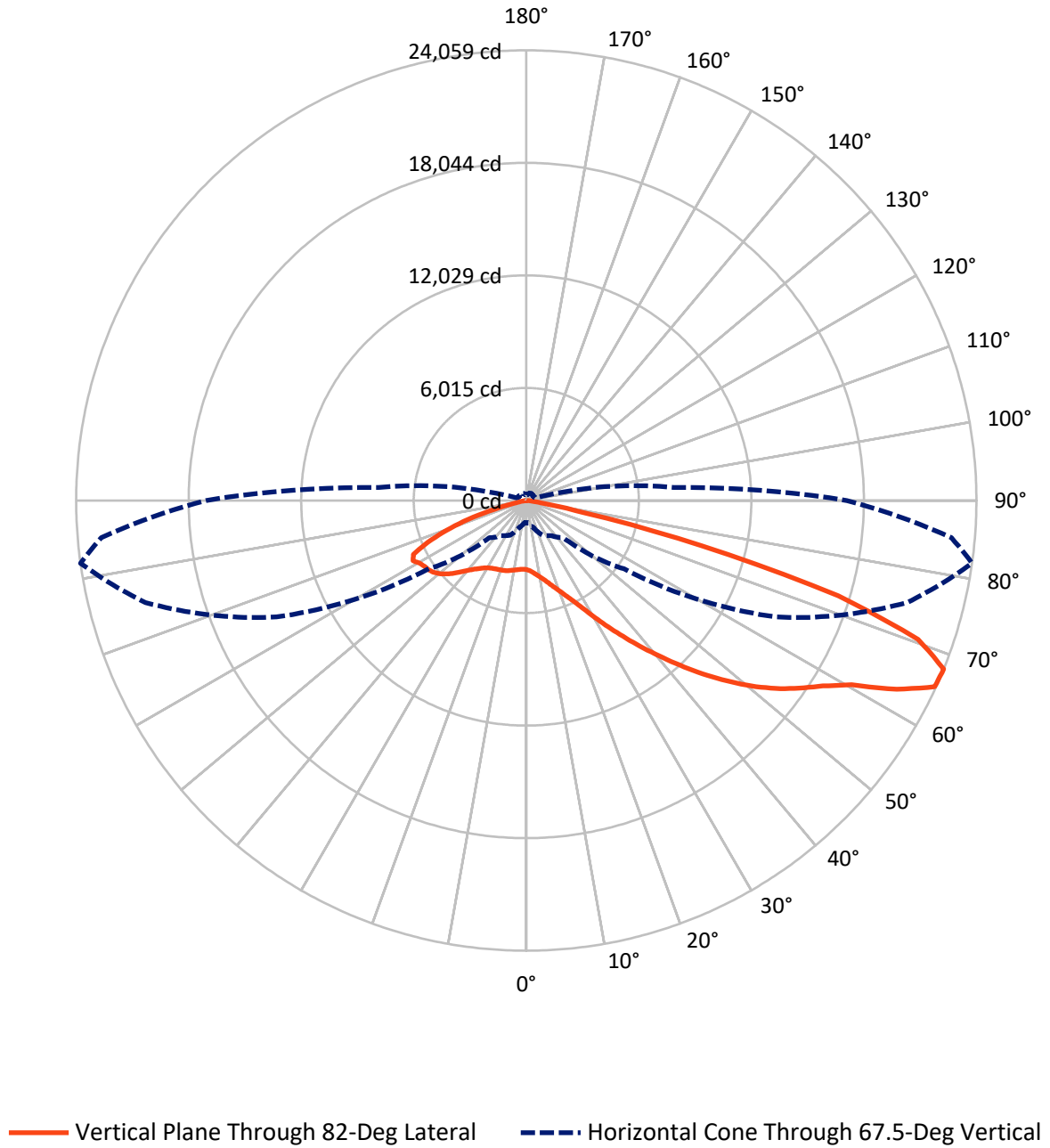
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	4038.5	0.0	4038.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	18256.5	0.0	18256.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	22295.0	0.0	22295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.1	1.5
10°-20°	855.1	3.8
20°-30°	1369.6	6.1
30°-40°	2421.9	10.9
40°-50°	4243.4	19.0
50°-60°	5659.5	25.4
60°-70°	5268.7	23.6
70°-80°	2022.1	9.1
80°-90°	125.6	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°	22295.0	100.0
0°-180°	22295.0	100.0

Coefficient of Utilization



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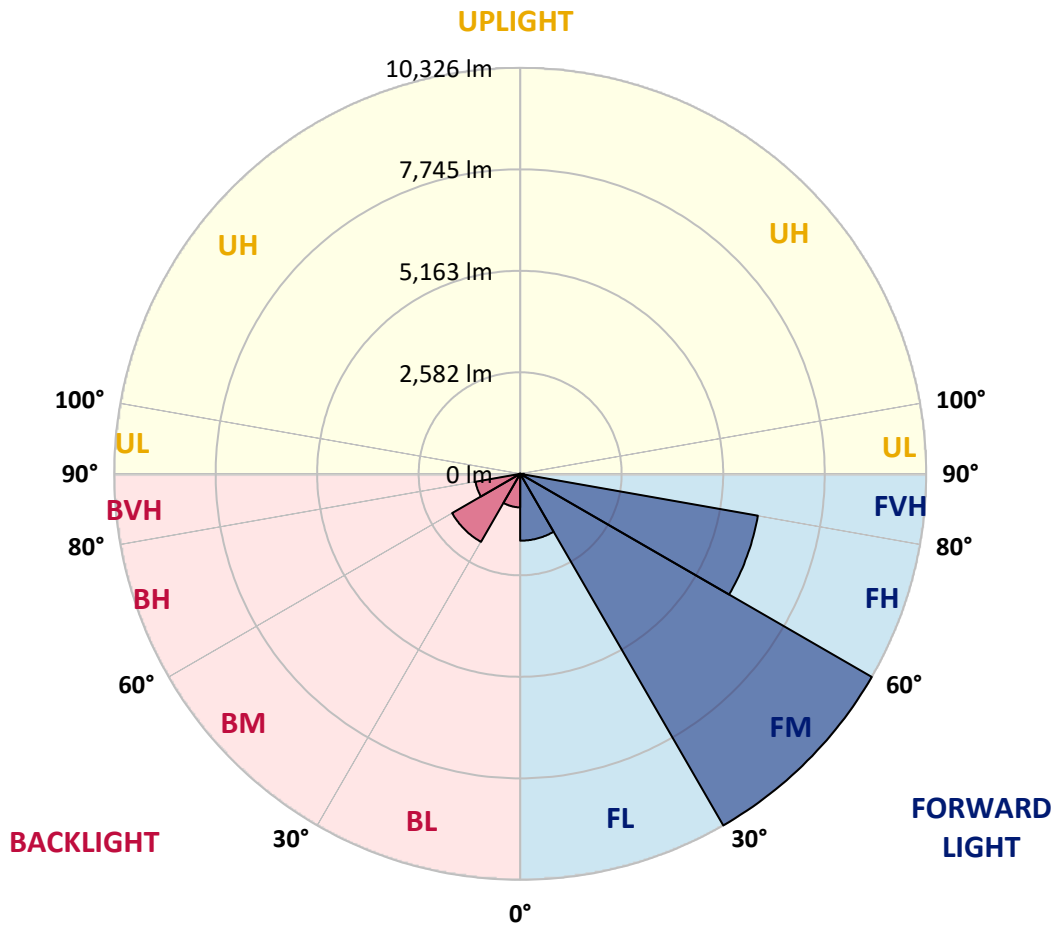
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1700.9	7.6			
FM (30°-60°)	10326.1	46.3			
FH (60°-80°)	6138.2	27.5			G3/7500
FVH (80°-90°)	91.3	0.4			G1/100
BL (0°-30°)	852.9	3.8	B2/1000		
BM (30°-60°)	1998.7	9.0	B2/2500		
BH (60°-80°)	1152.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	34.3	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°	3693.5	3693.5	3693.5	3693.5	3693.5	3693.5	3693.5	3693.5	3693.5	3693.5
2.5°	3903.8	3926.3	3913.4	3907.0	3895.8	3879.7	3866.9	3826.8	3785.0	3757.7
5°	3982.5	4004.9	4003.3	4009.7	4017.8	4022.6	4019.4	3974.4	3915.0	3868.5
7.5°	3915.0	3940.7	3961.6	3993.7	4049.9	4109.3	4138.2	4128.5	4067.5	4003.3
10°	3724.0	3751.3	3801.1	3876.5	3995.3	4123.7	4231.3	4281.0	4242.5	4171.9
12.5°	3374.1	3401.4	3499.3	3663.0	3862.1	4085.2	4290.7	4423.9	4433.5	4362.9
15°	2980.8	3008.1	3112.5	3317.9	3621.3	3979.2	4322.8	4574.8	4659.8	4598.9
17.5°	2736.8	2760.9	2839.6	3004.9	3321.1	3767.4	4311.5	4735.3	4929.5	4881.4
20°	2663.0	2683.9	2720.8	2836.4	3099.6	3547.5	4237.7	4886.2	5220.1	5192.8
22.5°	2741.7	2760.9	2772.2	2823.5	2988.9	3403.0	4144.6	5040.3	5557.1	5560.4
25°	2923.0	2942.3	2929.5	2961.6	3033.8	3358.0	4109.3	5221.7	5980.9	6016.2
27.5°	3221.6	3223.2	3192.7	3191.1	3202.3	3425.5	4146.2	5415.9	6515.4	6581.3
30°	3820.3	3796.3	3679.1	3552.3	3494.5	3627.7	4248.9	5645.4	7146.3	7263.5
32.5°	4743.3	4708.0	4492.9	4189.5	3884.5	3953.6	4433.5	5907.1	7833.3	8045.2
35°	5745.0	5735.3	5510.6	5059.5	4526.6	4417.5	4733.7	6250.6	8582.9	8920.0
37.5°	6676.0	6671.1	6542.7	6011.4	5362.9	5064.4	5215.2	6700.0	9385.5	9873.5
40°	7526.7	7541.2	7412.7	6937.6	6284.3	5894.2	5870.2	7255.4	10278.0	10912.0
42.5°	8261.9	8277.9	8147.9	7796.4	7194.4	6812.4	6674.4	7936.0	11149.6	12027.6
45°	8761.1	8860.6	8841.4	8560.4	8128.6	7732.2	7640.7	8790.0	12143.2	13210.7
47.5°	8902.3	8993.8	9138.3	9176.8	8913.6	8523.5	8632.7	9818.9	13148.1	14395.3
50°	8554.0	8639.1	8939.3	9339.0	9521.9	9401.6	9597.4	10921.7	14177.0	15576.7
52.5°	7867.0	7953.7	8332.5	8964.9	9711.4	10090.2	10565.3	12008.4	15173.8	16695.5
55°	6873.4	6964.9	7451.3	8167.2	9350.2	10374.3	11372.7	13093.5	16087.1	17702.0
57.5°	5521.8	5589.2	6094.9	7096.5	8441.7	10091.8	11968.2	14278.1	16947.5	18690.8
60°	3598.8	3658.2	4245.7	5362.9	6936.0	9147.9	12087.0	15599.2	18090.4	19976.5
62.5°	2393.3	2433.5	2781.8	3602.0	4884.6	7335.7	11392.0	16653.8	19766.2	22214.1
65°	1642.1	1682.2	2030.6	2602.0	3155.8	4852.5	9393.5	16514.1	21284.7	23991.1
67.5°	1171.8	1205.5	1500.8	2040.2	2284.2	2818.7	6367.8	14729.2	21066.4	24058.5
70°	839.5	858.8	1102.8	1589.1	1815.5	1693.5	3541.0	11265.2	18445.2	22215.7
72.5°	587.5	593.9	765.7	1210.3	1462.3	1236.0	1685.4	7510.7	13950.6	17437.1
75°	398.1	406.1	515.3	887.7	1173.4	943.8	892.5	4027.4	8189.6	9652.0
77.5°	244.0	247.2	332.3	606.8	878.0	719.1	574.7	1706.3	3168.6	3110.8
80°	138.0	138.0	211.9	377.2	598.7	463.9	402.9	725.5	1003.2	881.2
82.5°	77.0	78.7	154.1	234.4	396.5	274.5	221.5	335.5	433.4	383.6
85°	32.1	35.3	94.7	110.8	189.4	136.4	89.9	141.3	160.5	142.9
87.5°	3.2	4.8	28.9	20.9	22.5	27.3	12.8	27.3	22.5	22.5
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°
3693.5	0°	3693.5	3693.5	3693.5	3693.5	3693.5	3693.5	3693.5	3693.5	3693.5	3693.5
3748.1	2.5°	3717.6	3693.5	3632.5	3561.9	3468.8	3423.9	3362.9	3321.1	3285.8	3289.0
3841.2	5°	3789.8	3728.8	3592.4	3422.3	3210.4	3059.5	2899.0	2788.2	2698.3	2679.1
3969.6	7.5°	3889.4	3793.0	3553.9	3247.3	2889.3	2618.1	2375.7	2220.0	2109.2	2073.9
4125.3	10°	4017.8	3878.1	3504.1	3027.4	2512.1	2167.0	1907.0	1785.0	1709.5	1683.8
4308.3	12.5°	4167.1	3976.0	3438.3	2759.3	2123.7	1791.4	1626.1	1565.1	1541.0	1533.0
4533.0	15°	4354.9	4098.0	3338.8	2441.5	1794.6	1561.8	1491.2	1483.2	1486.4	1483.2
4802.7	17.5°	4578.0	4231.3	3176.7	2114.0	1573.1	1444.7	1419.0	1425.4	1433.4	1431.8
5104.5	20°	4822.0	4362.9	2969.6	1823.5	1422.2	1361.2	1346.7	1353.2	1359.6	1356.4
5452.8	22.5°	5099.7	4504.1	2740.0	1597.2	1321.1	1284.1	1268.1	1269.7	1269.7	1263.3
5894.2	25°	5431.9	4659.8	2499.3	1436.6	1244.0	1215.1	1195.9	1189.4	1179.8	1160.5
6430.4	27.5°	5828.4	4825.2	2268.1	1324.3	1183.0	1155.7	1133.3	1117.2	1093.1	1061.0
7074.0	30°	6274.7	5025.8	2072.3	1253.6	1134.9	1107.6	1081.9	1057.8	1022.5	982.4
7814.0	32.5°	6799.6	5240.9	1929.4	1207.1	1091.5	1062.6	1032.1	1003.2	964.7	924.6
8645.5	35°	7425.6	5501.0	1846.0	1175.0	1057.8	1019.3	985.6	953.5	924.6	889.3
9549.2	37.5°	8104.6	5777.1	1820.3	1158.9	1035.3	976.0	937.4	915.0	911.7	890.9
10526.8	40°	8847.8	6104.5	1839.5	1149.3	1011.3	934.2	892.5	887.7	895.7	858.8
11571.8	42.5°	9634.3	6493.0	1871.6	1138.1	977.6	892.5	852.4	852.4	845.9	794.6
12676.1	45°	10485.1	6940.8	1903.7	1110.8	937.4	850.7	820.2	809.0	781.7	732.0
13786.9	47.5°	11342.2	7396.7	1927.8	1061.0	889.3	815.4	788.1	762.5	722.3	677.4
14876.8	50°	12156.1	7806.0	1902.1	987.2	834.7	781.7	752.8	717.5	674.2	643.7
15909.0	52.5°	12883.2	8160.8	1793.0	900.5	776.9	746.4	720.7	683.8	648.5	616.4
16840.0	55°	13515.6	8448.1	1600.4	818.6	725.5	715.9	690.2	643.7	595.5	568.2
17763.0	57.5°	14122.4	8666.4	1359.6	751.2	679.0	682.2	643.7	601.9	557.0	528.1
19007.0	60°	14929.8	8958.5	1115.6	688.6	629.2	638.9	597.1	566.6	510.4	473.5
21140.3	62.5°	16220.4	9412.8	886.1	611.6	571.4	574.7	557.0	520.1	452.7	409.3
22721.4	65°	17244.5	9245.9	698.3	528.1	505.6	510.4	510.4	470.3	398.1	348.3
22806.4	67.5°	17128.9	7916.8	557.0	446.2	443.0	446.2	457.5	423.8	353.1	313.0
21069.6	70°	15779.0	6297.1	446.2	370.8	385.2	377.2	409.3	386.8	317.8	277.7
16334.3	72.5°	12875.2	4536.2	340.3	306.6	295.4	308.2	369.2	348.3	264.9	219.9
8651.9	75°	7523.5	2420.6	253.6	242.4	213.5	256.8	327.5	297.0	202.3	162.1
2651.8	77.5°	2449.5	844.3	186.2	178.2	158.9	207.1	279.3	250.4	165.3	128.4
776.9	80°	656.5	255.2	126.8	117.2	102.7	154.1	221.5	199.0	118.8	83.5
333.9	82.5°	263.3	107.5	73.8	65.8	56.2	105.9	175.0	160.5	88.3	53.0
104.3	85°	85.1	35.3	27.3	20.9	25.7	65.8	104.3	109.2	62.6	27.3
16.1	87.5°	11.2	4.8	4.8	6.4	4.8	11.2	32.1	30.5	17.7	3.2
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>
3693.5
3256.9
2635.7
2038.6
1664.6
1528.1
1481.6
1428.6
1354.8
1260.1
1157.3
1057.8
979.2
926.2
886.1
889.3
860.4
794.6
730.4
675.8
638.9
613.2
565.0
524.9
468.7
406.1
343.5
306.6
272.9
215.1
157.3
123.6
81.9
53.0
20.9
0.0
0.0

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