

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: P943518

Luminaire Tested: **GALN-SB8A-740-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29056 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

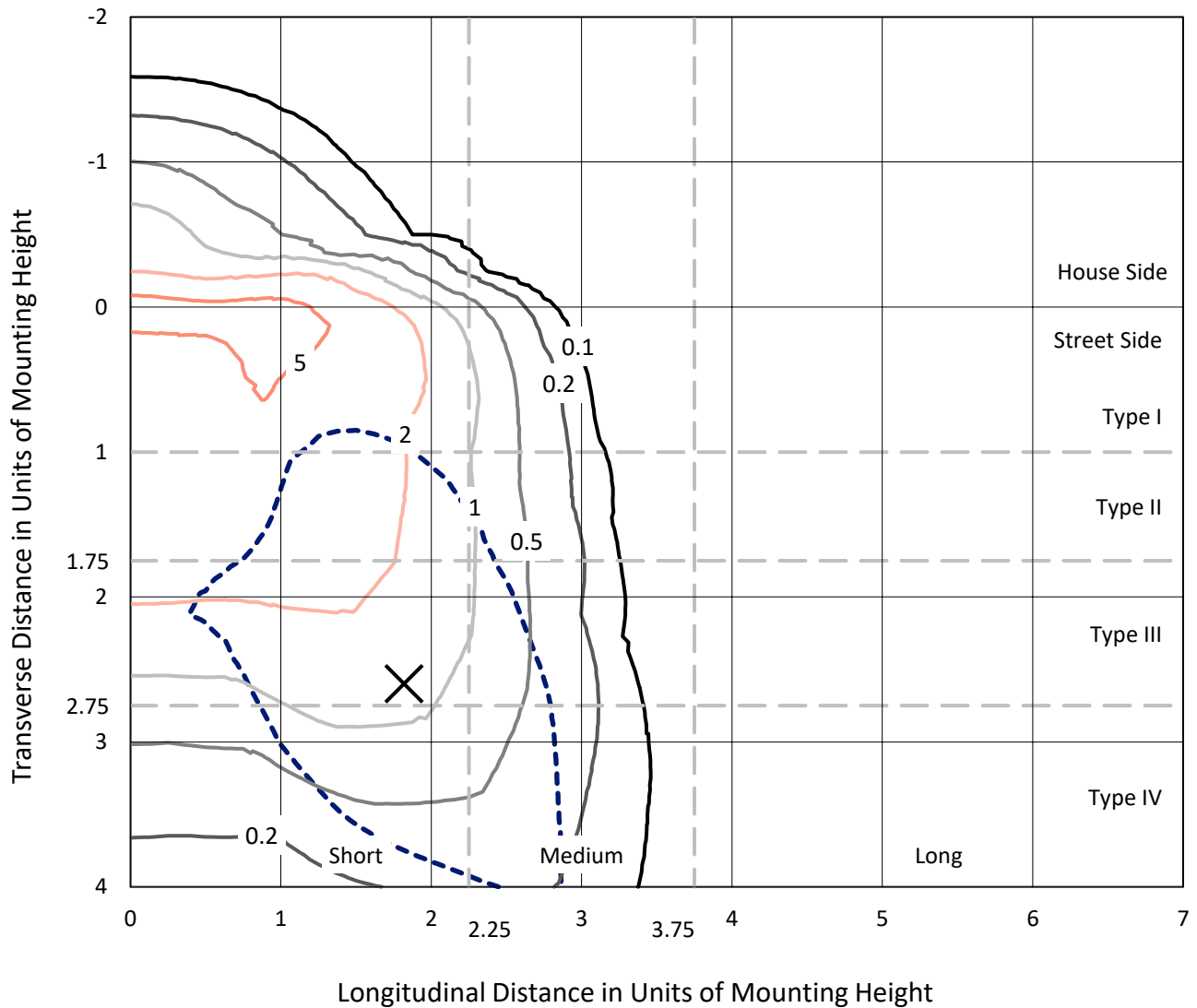
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

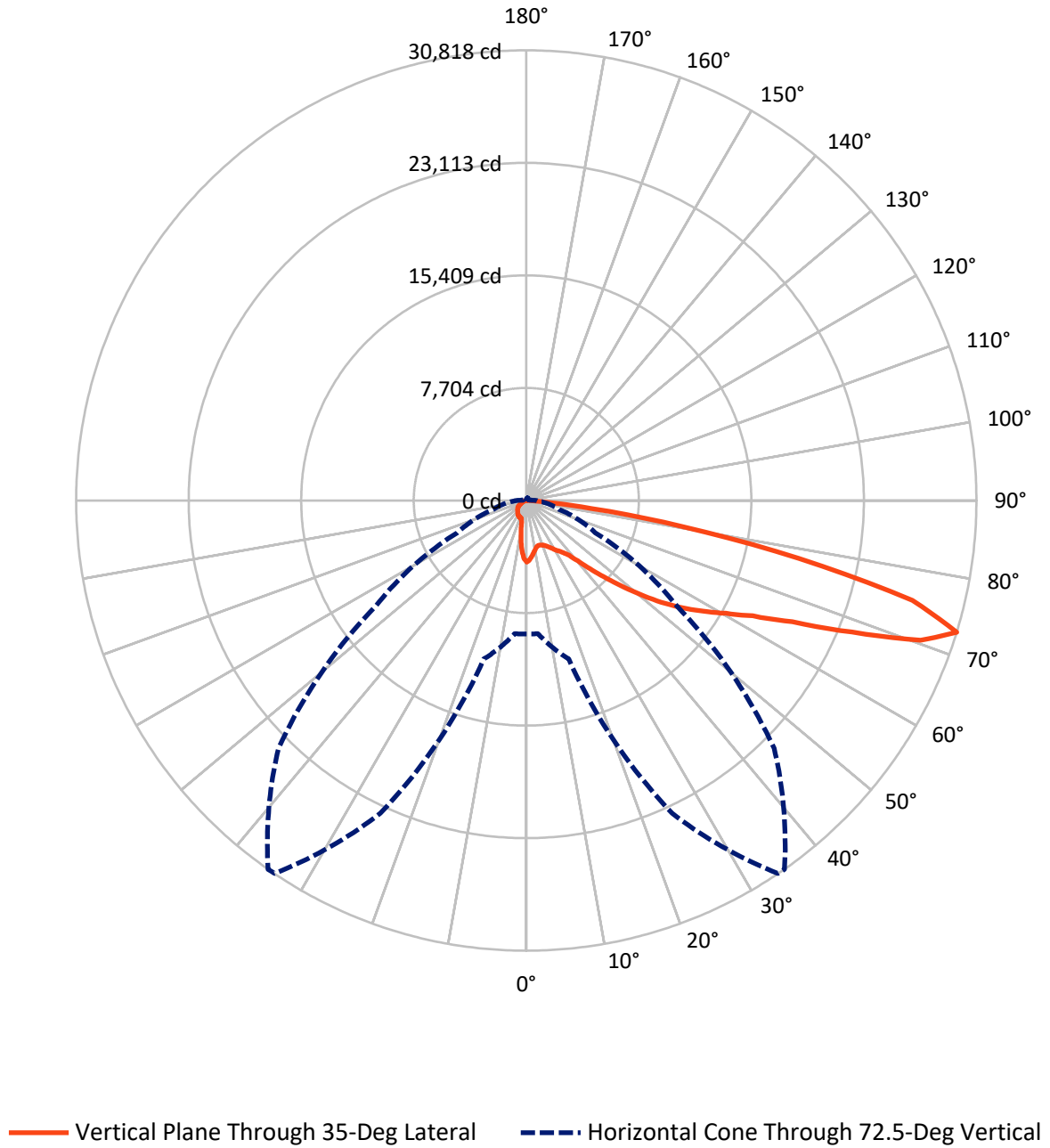
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3270.1	0.0	3270.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	25785.9	0.0	25785.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	29056.0	0.0	29056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.0	1.2
10°-20°	809.5	2.8
20°-30°	1315.1	4.5
30°-40°	2194.2	7.6
40°-50°	4151.5	14.3
50°-60°	6596.6	22.7
60°-70°	8160.5	28.1
70°-80°	5072.6	17.5
80°-90°	410.0	1.4
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°	29056.0	100.0
0°-180°	29056.0	100.0

Coefficient of Utilization



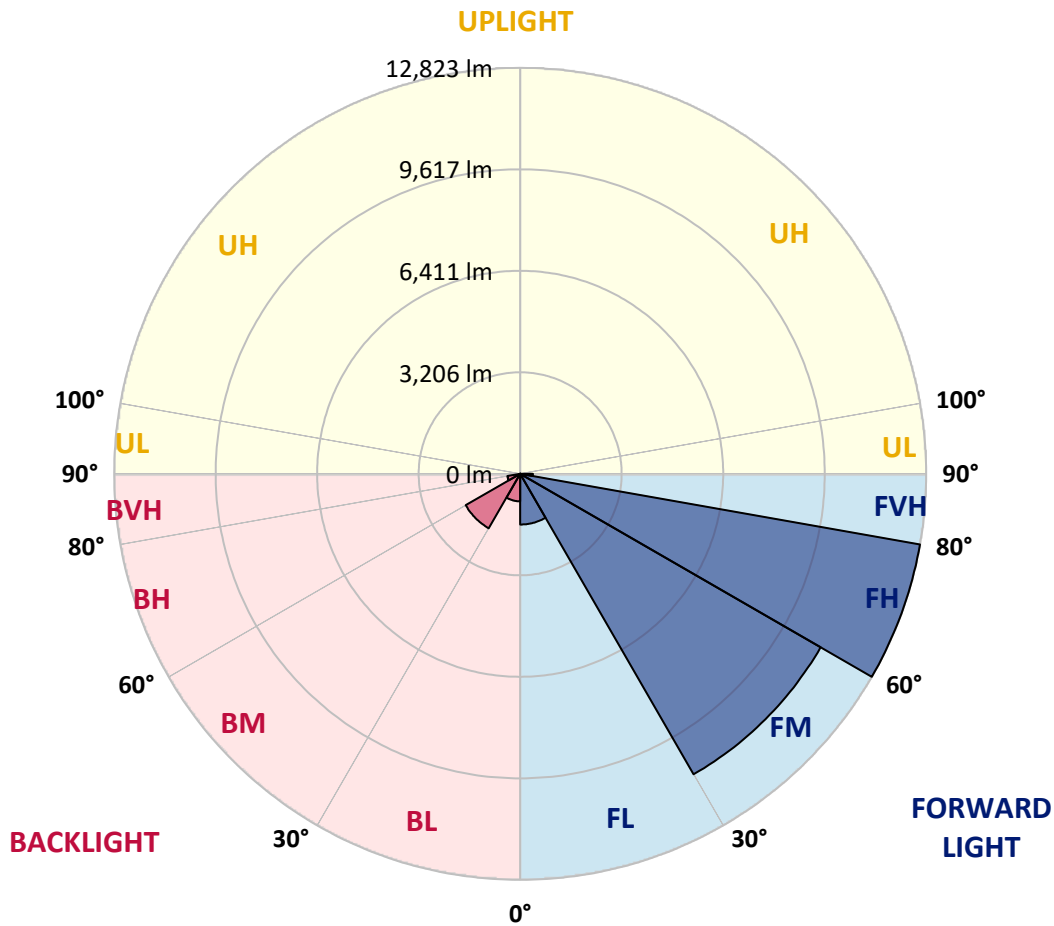
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1601.7	5.5			
FM (30°-60°)	10957.0	37.7			
FH (60°-80°)	12822.8	44.1			G5
FVH (80°-90°)	404.4	1.4			G3/500
BL (0°-30°)	868.9	3.0	B2/1000		
BM (30°-60°)	1985.3	6.8	B2/2500		
BH (60°-80°)	410.3	1.4	B1/500		G1/500
BVH (80°-90°)	5.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4211.2	4211.2	4211.2	4211.2	4211.2	4211.2	4211.2	4211.2	4211.2	4211.2
2.5°	4023.8	4057.9	4064.3	4074.9	4074.9	4087.7	4109.0	4138.8	4187.8	4213.3
5°	3708.7	3734.3	3766.2	3791.8	3840.7	3847.1	3930.2	4011.1	4123.9	4209.1
7.5°	3391.5	3421.3	3463.9	3525.6	3589.5	3608.7	3734.3	3870.5	4049.4	4209.1
10°	3168.0	3170.1	3208.4	3270.2	3372.4	3395.8	3549.1	3742.8	3966.4	4183.5
12.5°	3042.4	3057.3	3074.3	3121.1	3219.1	3234.0	3397.9	3625.7	3883.3	4168.6
15°	3042.4	3053.0	3063.7	3087.1	3165.8	3178.6	3323.4	3551.2	3840.7	4175.0
17.5°	3074.3	3091.3	3082.8	3110.5	3193.5	3202.0	3329.8	3529.9	3838.6	4215.4
20°	3150.9	3163.7	3146.7	3163.7	3246.7	3263.8	3395.8	3570.4	3874.8	4285.7
22.5°	3272.3	3278.7	3238.2	3251.0	3336.2	3357.5	3510.7	3685.3	3962.1	4398.5
25°	3425.6	3438.4	3376.6	3391.5	3472.4	3498.0	3674.7	3857.8	4100.5	4554.0
27.5°	3602.3	3608.7	3555.5	3553.3	3657.6	3693.8	3872.7	4070.7	4285.7	4749.8
30°	3804.5	3823.7	3772.6	3764.1	3896.1	3925.9	4102.6	4332.5	4558.2	5043.6
32.5°	3964.2	3979.1	3949.3	3970.6	4104.7	4128.2	4381.5	4703.0	4986.1	5460.9
35°	4194.2	4202.7	4134.5	4172.9	4326.2	4385.8	4762.6	5222.5	5524.8	5984.7
37.5°	5026.6	5026.6	4737.1	4547.6	4694.5	4747.7	5284.2	5876.1	6189.0	6687.2
40°	6178.4	6159.2	5735.6	5348.1	5328.9	5433.2	6027.2	6700.0	7047.0	7530.3
42.5°	7406.8	7377.0	6800.1	6416.8	6353.0	6389.2	6885.2	7715.5	8069.0	8558.6
45°	8496.9	8488.4	7960.4	7445.2	7330.2	7445.2	7956.1	8903.5	9156.9	9672.1
47.5°	9410.2	9410.2	9024.9	8688.5	8628.9	8697.0	9406.0	10221.4	10198.0	10858.0
50°	10462.0	10453.5	10087.3	9942.5	10004.2	10100.0	11075.1	11609.5	11275.3	12022.5
52.5°	11198.6	11249.7	11124.1	11100.7	11415.8	11581.8	12769.8	12967.8	12239.7	13127.5
55°	11782.0	11841.6	11986.3	12150.3	12757.0	12974.2	14411.3	14255.9	13046.6	14085.6
57.5°	12608.0	12522.9	12746.4	13070.0	14051.5	14313.4	16001.7	15471.5	13695.9	14862.6
60°	13610.8	13623.6	13661.9	14070.6	15343.8	15680.2	17568.6	16621.2	14113.2	15339.5
62.5°	14815.8	14835.0	14913.7	15541.8	17078.9	17396.2	19237.8	17562.2	14304.8	15205.4
65°	14732.8	14813.7	15693.0	17841.1	19716.8	20029.8	21185.8	18222.2	14015.3	13979.1
67.5°	13421.3	13553.3	15024.4	20587.6	23693.8	24042.9	23540.5	18352.1	12765.6	10870.7
70°	11701.1	11747.9	13517.1	23057.2	28298.8	28652.3	25648.2	16923.5	9687.0	6063.4
72.5°	9137.7	9148.4	11224.2	23629.9	30798.3	30817.5	23994.0	12563.3	5209.7	2329.1
75°	6527.6	6463.7	7517.5	19163.2	27096.0	27313.1	17988.0	5893.1	1990.6	1100.7
77.5°	3500.1	3570.4	4253.8	11364.7	18718.3	19088.7	9814.8	1699.0	1013.4	749.4
80°	1081.5	1141.2	1743.7	5203.3	10602.5	10826.0	3638.5	755.8	706.8	534.4
82.5°	340.6	353.4	813.3	2186.5	4400.7	4502.9	1053.9	427.9	483.3	353.4
85°	97.9	100.1	361.9	815.4	1087.9	1109.2	295.9	166.1	276.8	219.3
87.5°	10.6	34.1	136.3	136.3	95.8	93.7	31.9	36.2	78.8	27.7
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°
4211.2	0°	4211.2	4211.2	4211.2	4211.2	4211.2	4211.2	4211.2	4211.2	4211.2	4211.2
4230.3	2.5°	4219.7	4221.8	4194.2	4147.3	4096.2	4053.6	4000.4	3957.8	3928.0	3919.5
4268.7	5°	4249.5	4234.6	4155.8	4013.2	3842.9	3696.0	3532.0	3402.2	3317.0	3280.8
4309.1	7.5°	4294.2	4251.6	4079.2	3798.2	3472.4	3182.9	2889.1	2661.3	2516.5	2444.1
4347.4	10°	4332.5	4247.4	3951.4	3487.3	2989.1	2550.6	2154.6	1879.9	1726.6	1654.2
4392.2	12.5°	4368.7	4245.3	3785.4	3119.0	2444.1	1907.6	1539.3	1403.0	1360.4	1345.5
4464.5	15°	4436.9	4251.6	3576.7	2697.5	1901.2	1441.3	1307.2	1305.1	1313.6	1309.3
4575.2	17.5°	4530.5	4258.0	3340.4	2250.4	1466.9	1271.0	1264.6	1283.8	1296.6	1290.2
4713.6	20°	4651.9	4283.6	3089.2	1807.5	1260.4	1228.4	1243.3	1260.4	1271.0	1260.4
4898.9	22.5°	4822.2	4328.3	2814.6	1452.0	1194.4	1202.9	1215.7	1234.8	1245.5	1230.6
5135.2	25°	5030.9	4398.5	2544.2	1262.5	1162.4	1173.1	1192.2	1213.5	1226.3	1211.4
5433.2	27.5°	5301.2	4511.4	2295.1	1219.9	1130.5	1136.9	1164.6	1196.5	1213.5	1194.4
5856.9	30°	5693.0	4696.6	2080.0	1239.1	1111.3	1096.4	1134.8	1179.5	1198.6	1181.6
6433.9	32.5°	6212.5	4958.5	1948.0	1268.9	1102.8	1049.6	1085.8	1143.3	1175.2	1164.6
7187.5	35°	6893.7	5356.6	1897.0	1303.0	1096.4	1000.6	1026.2	1087.9	1143.3	1153.9
8137.1	37.5°	7719.8	5910.1	1911.9	1317.9	1077.3	960.2	973.0	1026.2	1098.6	1132.6
9205.9	40°	8658.7	6555.2	1997.0	1303.0	1056.0	926.1	928.2	968.7	1032.6	1083.7
10355.5	42.5°	9627.4	7308.9	2154.6	1247.6	1036.8	896.3	889.9	917.6	960.2	996.4
11503.1	45°	10549.3	8083.9	2310.0	1171.0	1013.4	866.5	851.6	862.3	870.8	885.7
12620.8	47.5°	11354.0	8628.9	2265.3	1100.7	981.5	832.4	806.9	802.6	777.1	775.0
13619.3	50°	11909.7	8748.1	2011.9	1030.4	934.6	794.1	753.7	728.1	683.4	662.1
14366.6	52.5°	12086.4	8277.6	1643.6	960.2	858.0	743.0	685.5	645.1	589.7	570.6
14796.6	55°	11852.2	7355.7	1313.6	875.0	751.5	674.9	611.0	557.8	513.1	489.7
14843.5	57.5°	11279.5	6182.7	1039.0	775.0	638.7	598.3	534.4	481.2	442.8	419.4
14324.0	60°	10330.0	4909.5	821.8	655.7	545.0	515.2	449.2	415.2	381.1	353.4
12982.7	62.5°	8888.6	3504.4	645.1	519.5	455.6	421.5	383.2	357.7	317.2	278.9
10570.6	65°	6936.3	2143.9	498.2	381.1	366.2	349.2	325.7	302.3	253.4	215.0
6895.9	67.5°	4375.1	1015.5	355.5	287.4	289.5	281.0	270.4	251.2	215.0	181.0
3089.2	70°	1926.8	491.8	234.2	219.3	215.0	215.0	223.5	217.2	183.1	151.2
1073.0	72.5°	655.7	264.0	174.6	166.1	155.4	153.3	187.4	181.0	146.9	117.1
534.4	75°	342.8	176.7	127.7	119.2	93.7	112.8	149.0	140.5	104.3	76.6
353.4	77.5°	223.5	125.6	87.3	76.6	53.2	74.5	110.7	97.9	61.7	38.3
232.1	80°	140.5	83.0	51.1	36.2	25.5	40.5	59.6	42.6	23.4	8.5
136.3	82.5°	74.5	42.6	19.2	12.8	10.6	12.8	14.9	10.6	4.3	0.0
70.3	85°	29.8	14.9	6.4	4.3	2.1	0.0	4.3	2.1	0.0	0.0
12.8	87.5°	10.6	2.1	0.0	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>
4211.2
3934.4
3293.6
2454.8
1656.4
1341.3
1307.2
1288.1
1258.2
1228.4
1209.3
1194.4
1179.5
1164.6
1153.9
1141.2
1100.7
1011.3
894.2
772.8
664.3
568.4
489.7
415.2
347.0
272.5
208.6
176.7
144.8
110.7
70.3
34.1
6.4
0.0
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