

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: P954461

Luminaire Tested: **GALN-SB7C-950-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-950-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31370 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

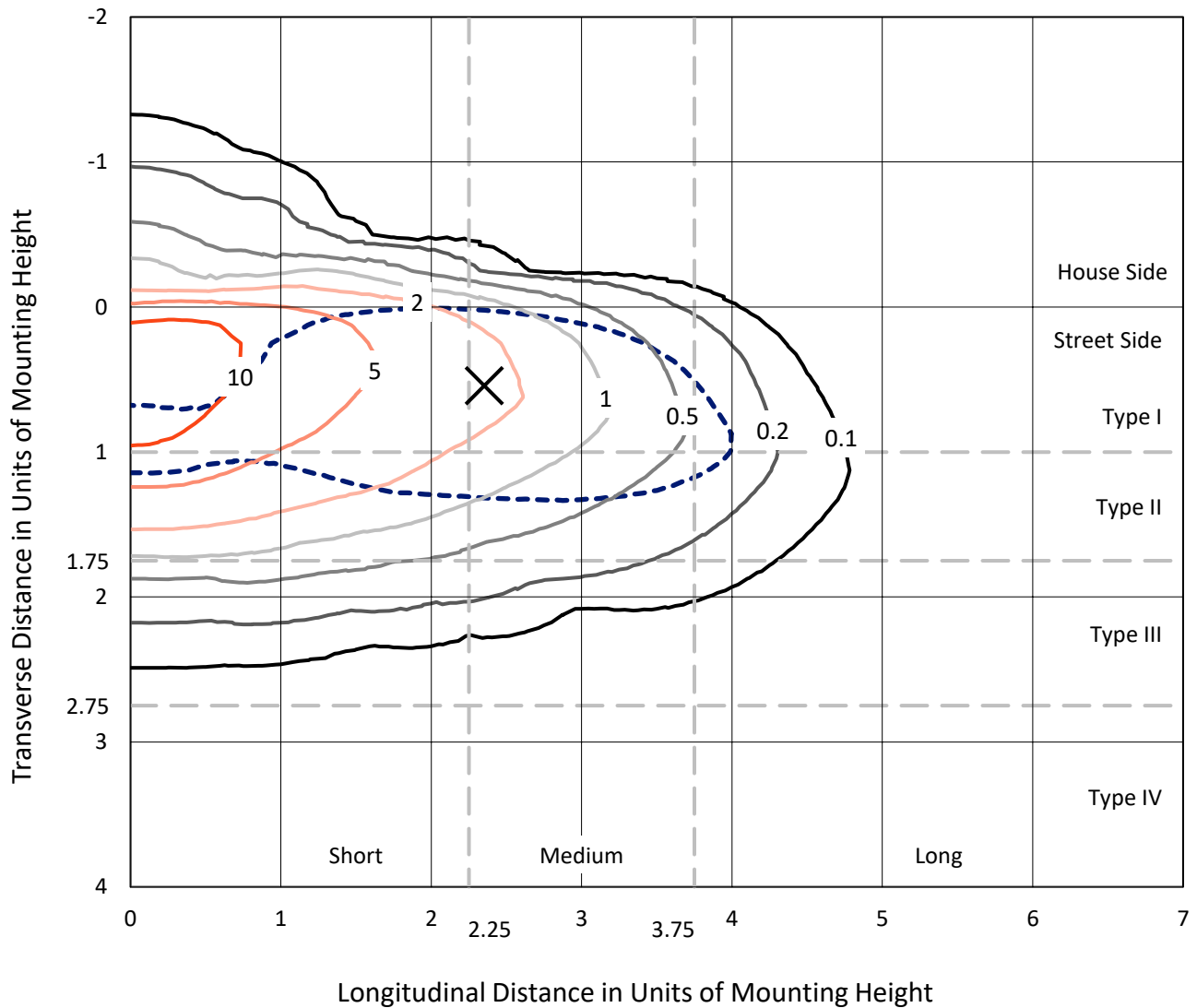
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

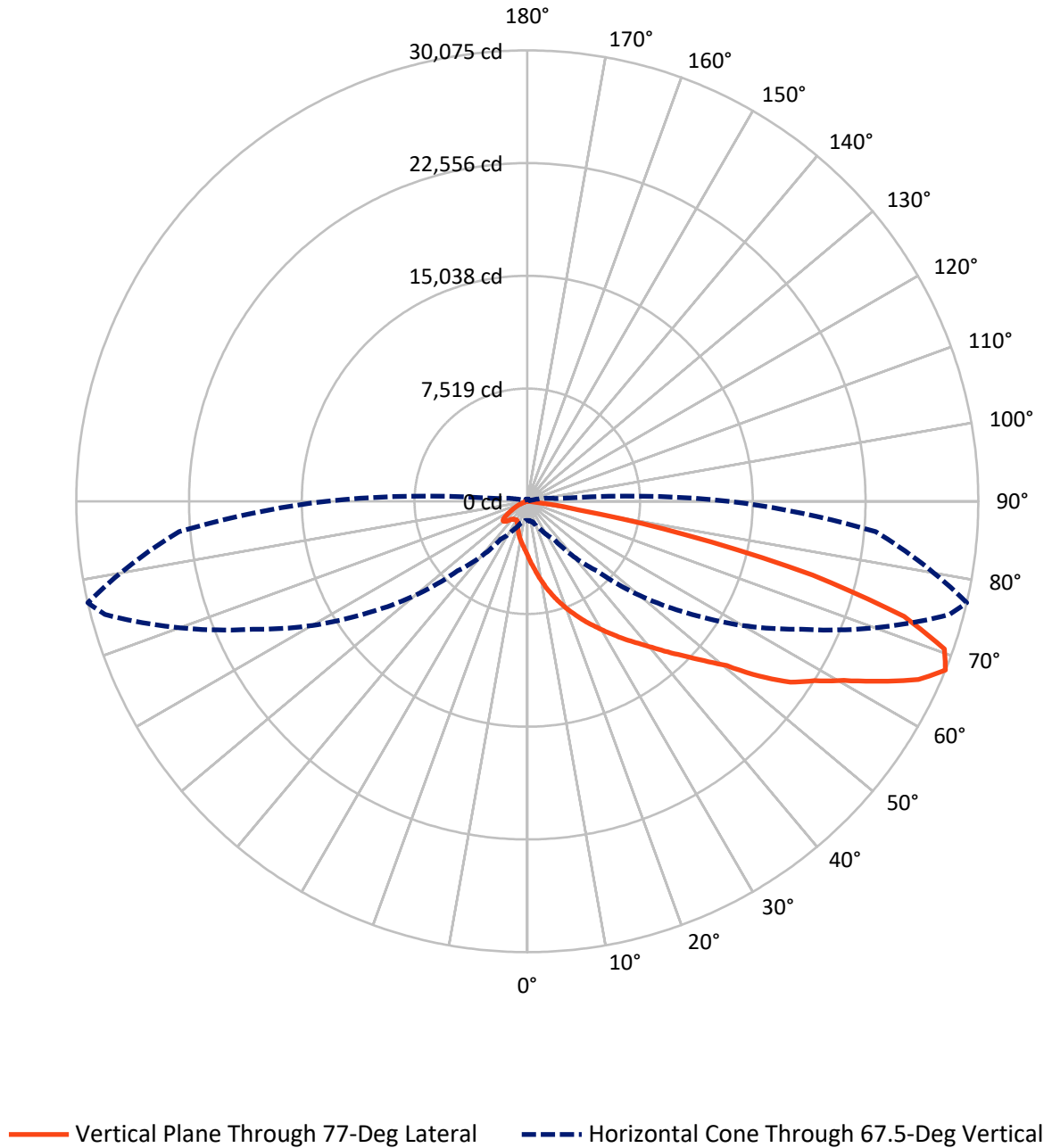
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	2307.9	0.0	2307.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	29062.1	0.0	29062.1
	% Fixture	92.6	0.0	92.6
Total	Lumens	31370.0	0.0	31370.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.2	1.2
10°-20°	1293.0	4.1
20°-30°	2495.0	8.0
30°-40°	4331.5	13.8
40°-50°	6289.2	20.0
50°-60°	7222.3	23.0
60°-70°	6270.3	20.0
70°-80°	2953.4	9.4
80°-90°	146.1	0.5
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°	31370.0	100.0
0°-180°	31370.0	100.0

Coefficient of Utilization



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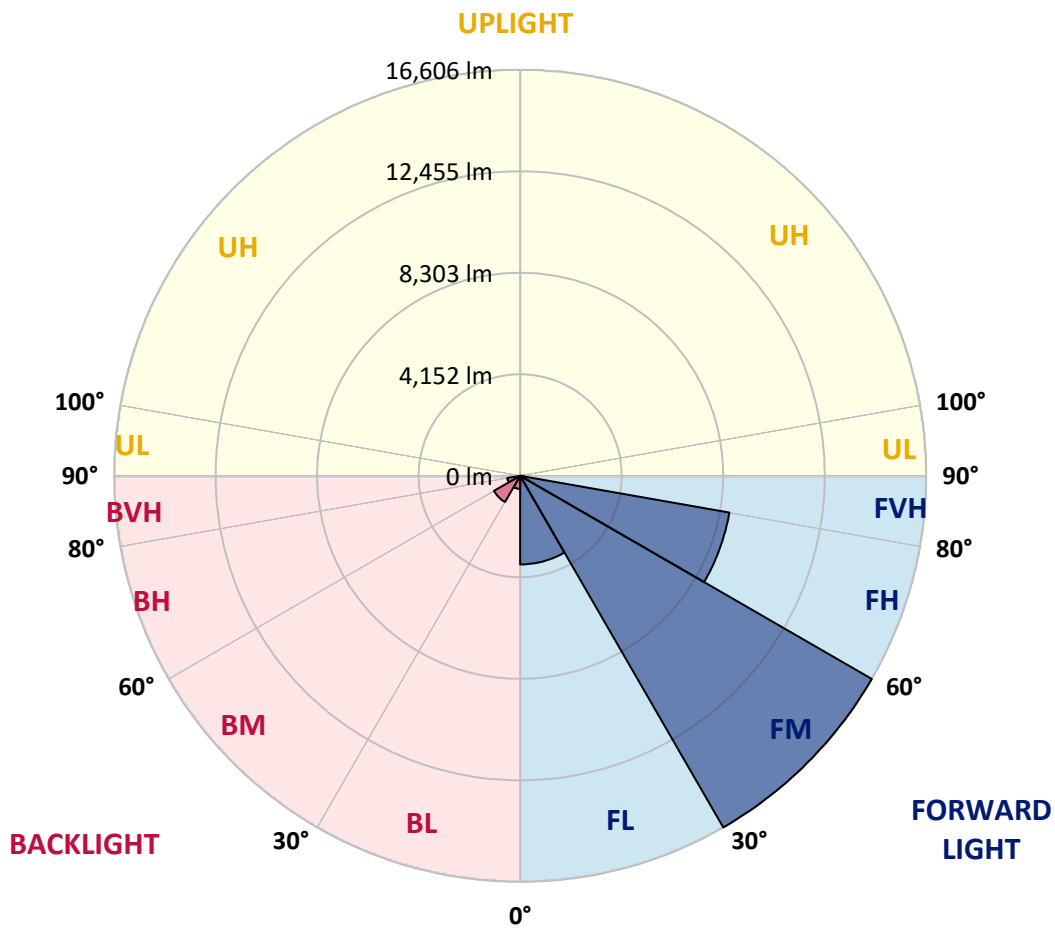
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3622.9	11.5			
FM (30°-60°)	16606.4	52.9			
FH (60°-80°)	8689.4	27.7			G4/12000
FVH (80°-90°)	143.4	0.5			G2/225
BL (0°-30°)	534.3	1.7	B2/1000		
BM (30°-60°)	1236.6	3.9	B2/2500		
BH (60°-80°)	534.3	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.7	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4
2.5°	5008.3	5039.5	4994.7	4908.9	4780.4	4696.6	4492.1	4299.2	4084.9	4016.8
5°	6105.0	6132.3	6081.6	5988.1	5816.7	5653.1	5384.3	4981.0	4562.2	4427.8
7.5°	6917.3	6932.9	6913.4	6827.7	6664.1	6479.0	6179.0	5701.8	5080.4	4932.3
10°	7501.7	7552.4	7546.5	7513.4	7404.3	7254.3	6934.9	6391.4	5660.9	5470.0
12.5°	7889.4	7945.9	7979.0	8053.0	8047.2	7951.7	7671.2	7096.5	6239.4	6015.4
15°	8002.4	8062.7	8189.4	8360.8	8512.7	8561.4	8364.7	7788.1	6876.4	6590.1
17.5°	7938.1	8031.6	8183.5	8454.3	8787.4	9007.5	8986.1	8456.2	7455.0	7127.7
20°	8080.3	8169.9	8288.7	8516.6	8904.3	9303.6	9463.3	9095.2	8029.6	7686.8
22.5°	8867.3	8851.7	8863.4	8900.4	9132.2	9527.6	9856.8	9675.7	8598.4	8247.8
25°	10114.0	10043.8	9925.0	9724.4	9665.9	9856.8	10199.7	10189.9	9198.4	8822.5
27.5°	11543.8	11532.1	11253.6	10770.5	10497.7	10423.7	10587.3	10690.6	9792.6	9391.3
30°	12913.2	12944.4	12568.4	12030.8	11530.2	11239.9	11091.9	11165.9	10396.4	10004.9
32.5°	14105.4	14138.5	13729.5	13100.2	12480.8	12130.1	11818.5	11635.4	11054.9	10628.2
35°	15112.5	15145.6	14676.2	13980.7	13320.4	13002.9	12650.3	12149.6	11717.2	11319.8
37.5°	16012.5	16002.8	15373.6	14672.3	14023.6	13772.3	13587.2	12782.7	12399.0	12015.2
40°	16544.3	16585.2	16047.6	15274.2	14645.0	14461.9	14450.2	13567.8	13186.0	12813.9
42.5°	16700.1	16772.2	16382.6	15747.6	15176.8	14978.1	15283.9	14417.1	14101.5	13739.2
45°	16419.6	16489.8	16312.5	15872.2	15539.1	15410.6	16000.8	15297.6	15079.4	14721.0
47.5°	15601.5	15689.1	15732.0	15638.5	15634.6	15765.1	16643.6	16224.8	16240.4	15874.2
50°	14017.8	14165.8	14559.3	14890.5	15402.8	16045.6	17269.0	17230.0	17549.5	17233.9
52.5°	11138.6	11349.0	12704.8	13610.6	14761.9	15993.0	17956.6	18842.9	19846.1	19384.5
55°	8951.0	8951.0	10053.6	11748.3	13511.3	15646.3	18256.6	19891.0	21410.4	21301.3
57.5°	7297.2	7384.8	8088.1	9586.1	11701.6	14820.3	18441.6	20549.4	22670.7	22590.9
60°	4503.8	4692.7	6021.2	7499.8	9642.6	13349.6	18324.8	21215.6	24199.9	24264.2
62.5°	2536.3	2606.4	3198.6	5395.9	7497.8	11372.4	17430.6	21587.7	26155.7	26428.4
65°	1751.2	1786.3	2014.2	3358.3	5197.2	9054.3	15683.3	21355.8	28115.4	28666.7
67.5°	1272.0	1289.6	1431.8	2051.2	3083.7	6564.7	12944.4	20187.0	29153.7	30075.1
70°	977.9	989.6	1092.8	1348.0	1821.4	4051.8	9401.0	17863.1	28401.7	29502.3
72.5°	794.8	806.5	886.3	997.4	1207.8	2396.0	5697.9	14506.7	25082.4	26270.6
75°	670.1	685.7	757.8	829.8	946.7	1538.9	2672.6	10102.3	18862.4	19641.6
77.5°	372.1	342.8	615.6	687.6	798.7	974.0	1250.6	5945.3	10564.0	10780.2
80°	231.8	239.6	488.9	553.2	613.6	490.9	572.7	2288.9	3662.2	3479.1
82.5°	13.6	31.2	376.0	399.3	420.8	210.4	216.2	777.2	882.4	810.4
85°	0.0	0.0	171.4	138.3	146.1	60.4	62.3	181.2	118.8	128.6
87.5°	0.0	0.0	0.0	3.9	0.0	5.8	11.7	15.6	5.8	7.8
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°
3617.4	0°	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4
3802.5	2.5°	3666.1	3529.8	3253.1	2982.4	2762.3	2557.7	2411.6	2273.3	2203.2	2199.3
4047.9	5°	3777.2	3490.8	2937.6	2448.6	2055.1	1739.6	1535.0	1388.9	1314.9	1289.6
4349.9	7.5°	3933.0	3502.5	2661.0	1981.1	1517.5	1246.7	1129.8	1083.1	1067.5	1050.0
4690.8	10°	4129.7	3529.8	2413.6	1595.4	1196.1	1059.7	1013.0	993.5	981.8	970.1
5074.5	12.5°	4349.9	3555.1	2168.1	1324.6	1051.9	981.8	948.7	925.3	909.7	896.1
5468.0	15°	4564.1	3570.7	1912.9	1135.7	977.9	921.4	886.3	861.0	839.6	824.0
5853.7	17.5°	4776.5	3592.1	1673.3	1022.7	917.5	861.0	825.9	794.8	777.2	759.7
6258.9	20°	5012.2	3588.2	1447.4	942.8	857.1	800.6	763.6	734.4	716.9	697.4
6687.5	22.5°	5230.4	3568.7	1248.7	874.6	794.8	740.2	699.3	670.1	652.6	637.0
7125.8	25°	5481.7	3553.1	1083.1	812.3	736.3	681.8	637.0	609.7	590.2	576.6
7566.0	27.5°	5723.2	3529.8	962.3	755.8	679.8	627.3	584.4	553.2	535.7	526.0
8019.9	30°	5960.9	3523.9	917.5	701.3	629.2	576.6	533.7	504.5	490.9	487.0
8518.6	32.5°	6247.2	3539.5	937.0	681.8	582.4	529.9	488.9	467.5	453.9	453.9
9073.7	35°	6553.0	3535.6	966.2	699.3	551.3	483.1	451.9	438.3	424.7	424.7
9689.3	37.5°	6936.8	3541.5	989.6	728.5	539.6	444.1	426.6	409.1	401.3	401.3
10363.3	40°	7509.5	3734.3	977.9	753.9	535.7	416.9	381.8	376.0	370.1	370.1
11125.0	42.5°	8210.8	4153.1	993.5	755.8	533.7	397.4	350.6	362.3	348.7	346.7
11984.1	45°	8978.3	4610.9	1092.8	714.9	531.8	387.7	335.1	348.7	327.3	327.3
12979.5	47.5°	9740.0	5064.8	1194.1	656.5	526.0	385.7	321.4	313.6	307.8	309.7
14276.8	50°	10789.9	5434.9	1233.1	576.6	512.3	381.8	296.1	298.0	294.1	298.0
16106.0	52.5°	11933.4	5512.8	1186.3	487.0	473.4	370.1	278.6	286.4	284.4	288.3
17393.6	55°	12646.4	5429.1	979.8	405.2	413.0	323.4	261.0	276.6	276.6	276.6
18652.0	57.5°	13382.7	5072.6	695.4	329.2	342.8	264.9	245.4	266.9	264.9	263.0
20167.6	60°	13912.6	4496.0	457.8	270.8	272.7	218.2	227.9	251.3	249.3	239.6
21729.9	62.5°	14308.0	3859.0	294.1	229.9	208.4	196.7	208.4	227.9	220.1	198.7
23054.5	65°	14263.2	2976.5	226.0	196.7	171.4	171.4	181.2	198.7	175.3	140.3
23307.7	67.5°	13431.4	2014.2	187.0	165.6	144.2	142.2	150.0	165.6	150.0	118.8
22010.4	70°	11945.1	1316.8	150.0	128.6	114.9	105.2	120.8	142.2	126.6	95.5
18737.7	72.5°	9695.2	802.6	113.0	93.5	83.8	68.2	95.5	116.9	101.3	70.1
13030.1	75°	6272.5	409.1	77.9	60.4	44.8	40.9	70.1	87.7	70.1	42.9
5781.6	77.5°	2399.9	171.4	42.9	27.3	23.4	19.5	39.0	52.6	29.2	9.7
1120.1	80°	461.7	72.1	21.4	13.6	11.7	7.8	5.8	3.9	0.0	0.0
198.7	82.5°	79.9	23.4	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
39.0	85°	27.3	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.6	87.5°	9.7	0.0	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>
3617.4
2195.4
1285.7
1046.1
966.2
892.2
822.1
757.8
695.4
635.0
574.7
526.0
485.1
453.9
424.7
401.3
370.1
344.8
327.3
309.7
298.0
288.3
276.6
263.0
239.6
194.8
136.4
114.9
91.6
66.2
37.0
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