

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: P943206

Luminaire Tested: **GALN-SB7C-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36322 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

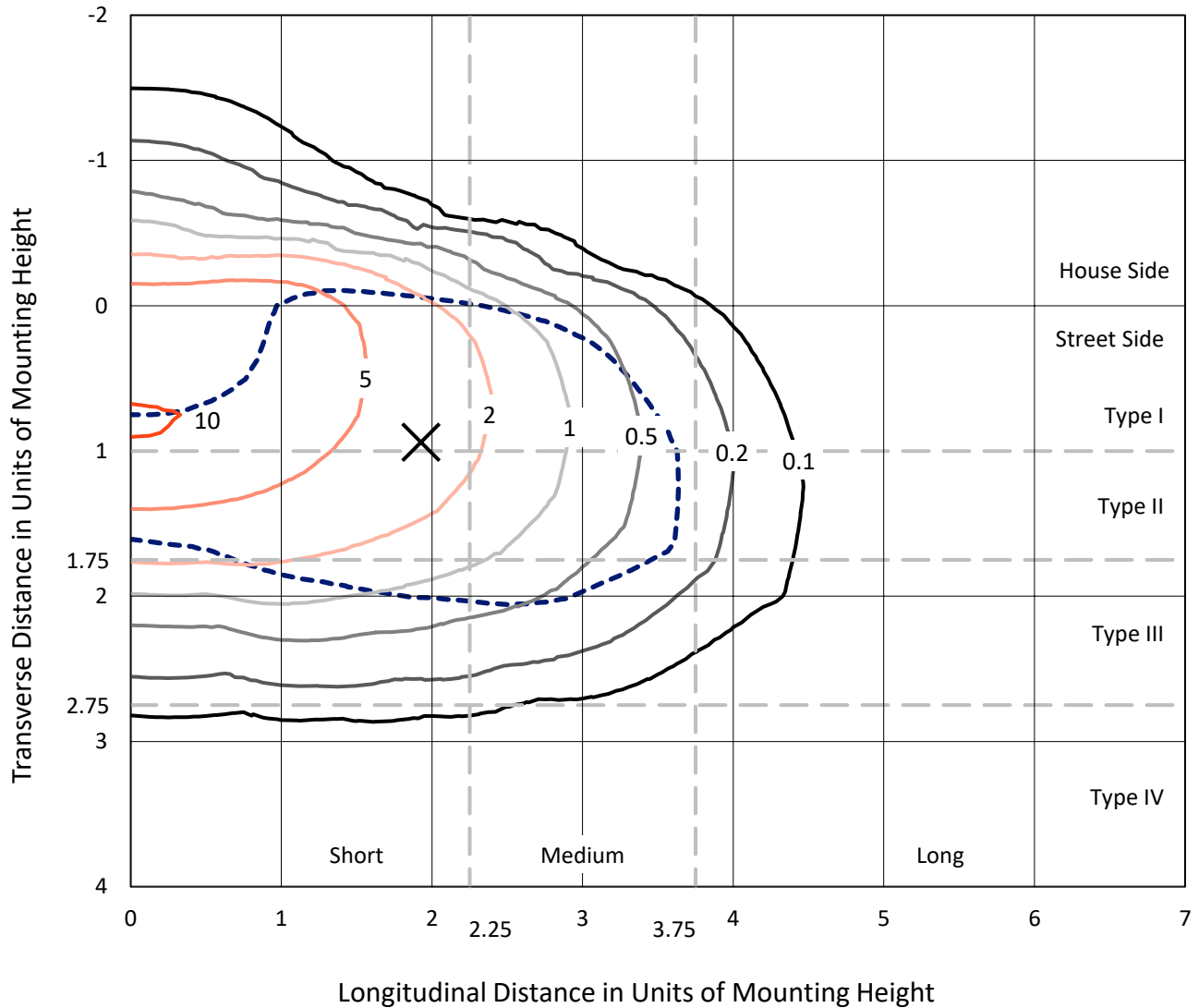
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

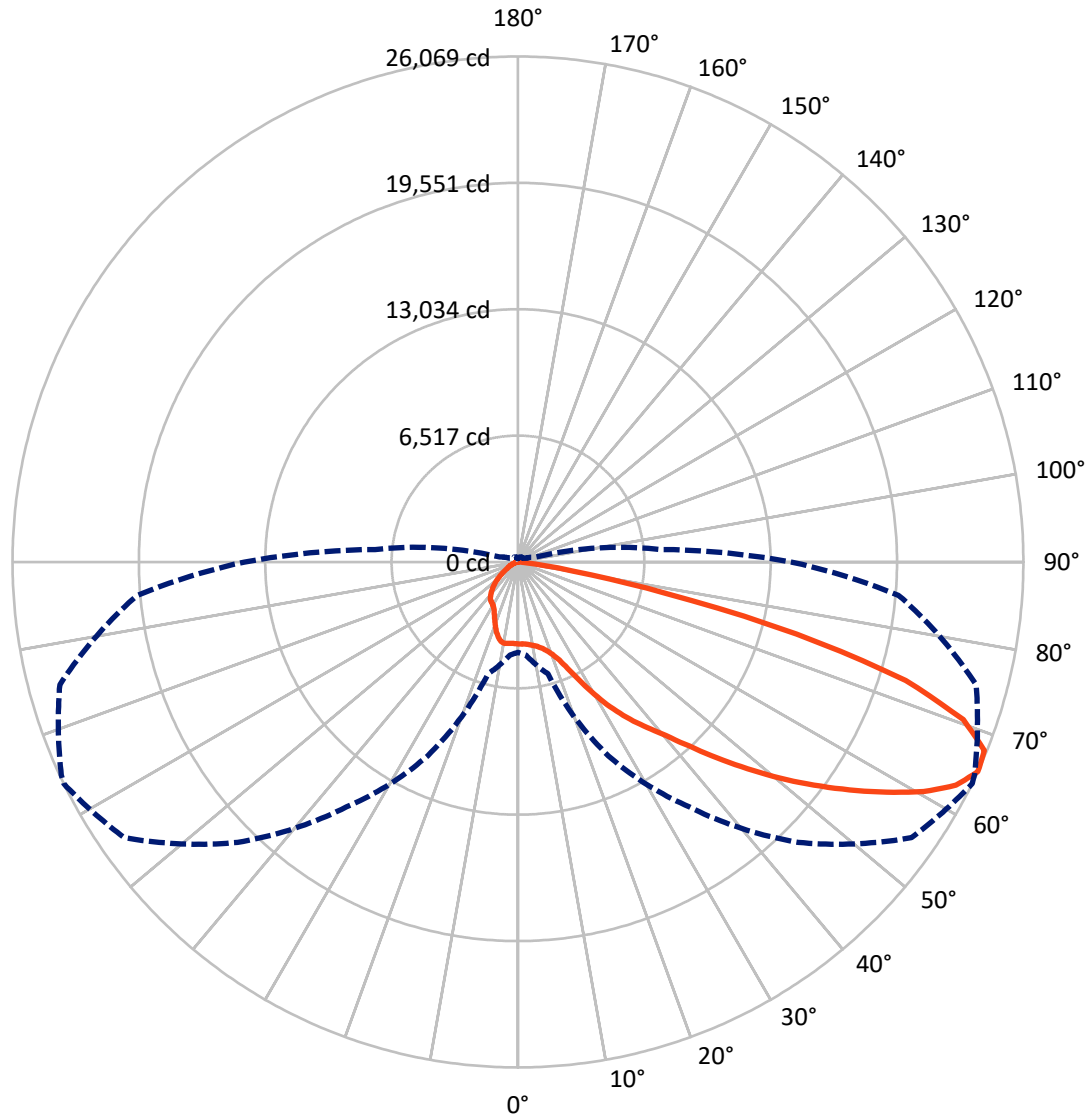
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4857.4	0.0	4857.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	31464.6	0.0	31464.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	36322.0	0.0	36322.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.8	1.1
10°-20°	1057.2	2.9
20°-30°	2003.2	5.5
30°-40°	4053.6	11.2
40°-50°	6905.3	19.0
50°-60°	9390.6	25.9
60°-70°	8818.3	24.3
70°-80°	3533.0	9.7
80°-90°	171.2	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°	36322.0	100.0
0°-180°	36322.0	100.0

Coefficient of Utilization



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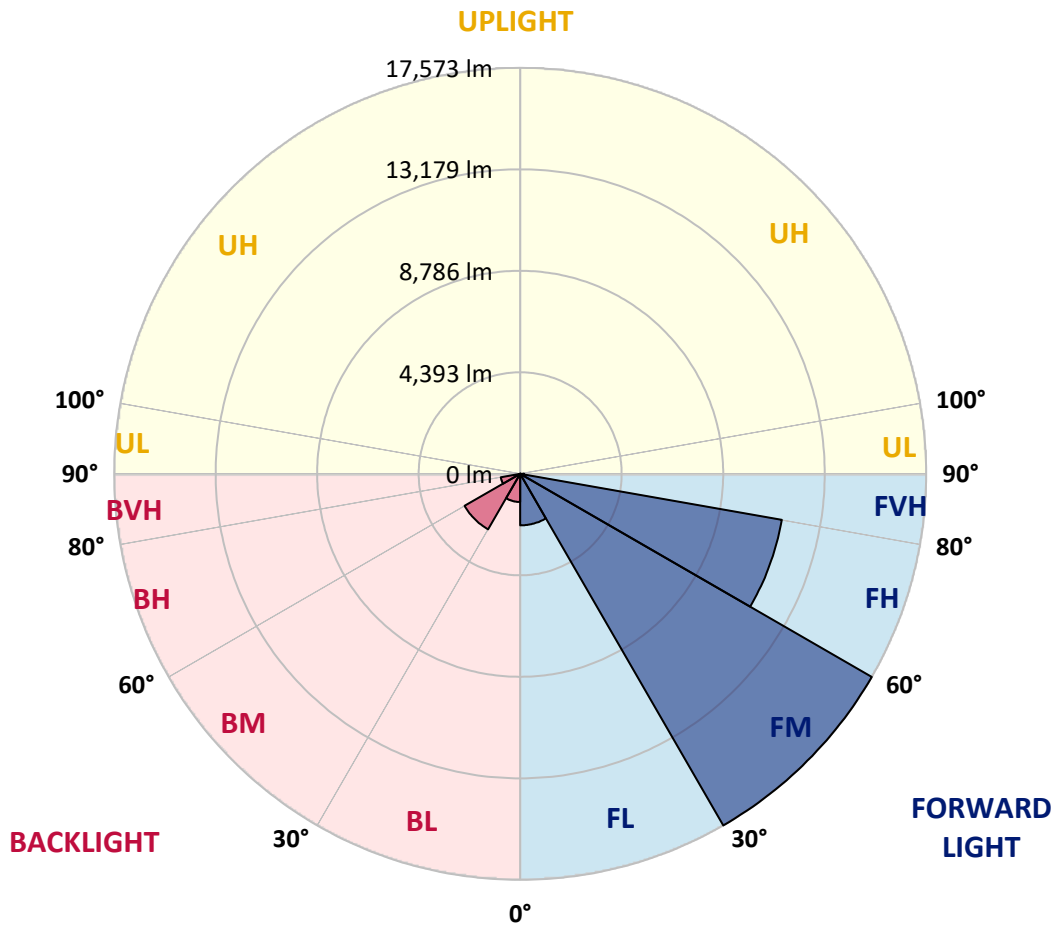
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2230.6	6.1			
FM (30°-60°)	17572.5	48.4			
FH (60°-80°)	11498.7	31.7			G4/12000
FVH (80°-90°)	162.8	0.4			G2/225
BL (0°-30°)	1219.5	3.4	B3/2500		
BM (30°-60°)	2776.9	7.6	B3/5000		
BH (60°-80°)	852.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	8.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	4224.6	4224.6	4224.6	4224.6	4224.6	4224.6	4224.6	4224.6	4224.6	4224.6
2.5°	4210.0	4239.2	4231.9	4224.6	4222.2	4227.1	4229.5	4227.1	4227.1	4227.1
5°	4129.7	4154.0	4154.0	4171.1	4195.4	4224.6	4246.5	4251.4	4256.3	4263.6
7.5°	3976.3	3995.7	4010.4	4066.4	4127.2	4205.1	4270.9	4305.0	4309.8	4336.6
10°	3871.6	3895.9	3920.3	3978.7	4066.4	4183.2	4295.2	4378.0	4390.2	4453.5
12.5°	3866.7	3891.0	3922.7	3986.0	4088.3	4212.5	4348.8	4468.1	4490.0	4582.6
15°	3917.8	3947.0	3976.3	4054.2	4163.8	4314.7	4460.8	4609.3	4631.3	4762.7
17.5°	4022.5	4061.5	4083.4	4161.3	4278.2	4446.2	4638.6	4809.0	4828.5	4981.9
20°	4229.5	4275.8	4283.1	4346.4	4460.8	4641.0	4869.9	5081.7	5106.1	5281.4
22.5°	4658.0	4723.8	4665.4	4697.0	4799.3	4979.5	5227.8	5495.7	5529.8	5729.4
25°	5412.9	5505.4	5354.4	5300.9	5344.7	5532.2	5843.9	6182.3	6221.3	6382.0
27.5°	6895.8	6776.4	6547.6	6323.5	6192.1	6299.2	6649.8	7068.6	7117.3	7273.2
30°	8524.7	8420.0	8110.8	7614.1	7302.4	7285.3	7609.2	8076.7	8132.7	8281.2
32.5°	10156.1	10056.3	9720.3	9109.1	8568.6	8300.7	8524.7	9043.4	9072.6	9167.6
35°	11760.8	11658.5	11322.5	10696.7	10032.0	9423.2	9379.4	9963.8	9973.5	10073.4
37.5°	13375.1	13289.9	12932.0	12318.4	11663.4	10823.3	10416.7	10835.5	10847.7	10945.1
40°	14526.9	14563.4	14317.5	13842.6	13280.2	12362.2	11580.6	11763.2	11690.2	11853.3
42.5°	15515.5	15588.5	15374.2	15135.6	14809.3	14000.9	13022.1	12990.4	12873.5	12961.2
45°	16370.1	16431.0	16238.6	16182.6	16175.3	15608.0	14597.5	14407.6	14244.4	14227.4
47.5°	16684.2	16801.1	16883.9	17071.4	17436.6	17198.0	16226.5	15931.8	15749.2	15615.3
50°	16803.5	16927.7	17210.2	17755.6	18620.0	18722.3	17848.1	17517.0	17293.0	17049.5
52.5°	16642.8	16864.4	17244.3	18162.2	19416.2	19944.6	19404.1	19114.3	18858.6	18461.7
55°	15695.6	15917.2	16694.0	18157.4	19813.1	20801.7	20874.8	20745.7	20458.4	19832.6
57.5°	13699.0	14027.7	15257.4	17538.9	19805.8	21539.5	22316.3	22408.8	22087.4	21191.3
60°	10932.9	11378.5	12878.4	16168.0	19194.7	21938.8	23580.0	24042.6	23701.7	22530.5
62.5°	7628.7	8144.9	9564.5	14020.4	17797.0	21651.5	24502.8	25357.5	25099.4	23728.5
65°	4653.2	4818.8	5963.2	11032.7	15420.5	20448.6	24787.7	26068.5	25983.3	24461.4
67.5°	3099.7	3238.5	3567.2	7565.4	11970.2	18045.4	24105.9	25944.3	25968.7	24342.1
70°	1867.6	1986.9	2201.2	4399.9	7757.7	14283.4	21994.8	24361.6	24502.8	22747.2
72.5°	769.4	849.8	1044.6	1994.2	4017.7	9065.3	17514.5	20916.2	21244.9	19126.5
75°	435.9	477.2	613.6	1000.8	1743.4	4224.6	10609.0	14848.3	15332.8	13182.8
77.5°	289.8	309.2	396.9	647.7	981.3	1441.5	4533.9	7735.8	8661.1	7200.1
80°	194.8	211.8	272.7	433.4	638.0	618.5	1443.9	2865.9	3525.8	2473.9
82.5°	131.5	133.9	194.8	284.9	404.2	299.5	426.1	891.2	1120.1	715.9
85°	75.5	73.0	143.7	165.6	180.2	124.2	129.1	267.8	350.6	301.9
87.5°	9.7	14.6	56.0	43.8	24.3	26.8	26.8	46.3	68.2	73.0
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°
4224.6	0°	4224.6	4224.6	4224.6	4224.6	4224.6	4224.6	4224.6	4224.6	4224.6	4224.6
4229.5	2.5°	4229.5	4227.1	4219.8	4212.5	4195.4	4185.7	4190.5	4185.7	4183.2	4185.7
4261.1	5°	4261.1	4253.8	4234.4	4210.0	4175.9	4134.5	4107.7	4068.8	4032.3	4010.4
4346.4	7.5°	4346.4	4339.1	4312.3	4244.1	4134.5	3961.7	3803.4	3664.6	3559.9	3499.0
4482.7	10°	4482.7	4470.6	4429.2	4278.2	3990.9	3613.5	3299.3	3038.8	2868.4	2788.0
4643.4	12.5°	4643.4	4628.8	4555.8	4246.5	3718.2	3128.9	2695.5	2405.7	2247.5	2176.8
4828.5	15°	4833.4	4813.9	4670.2	4095.6	3321.3	2593.2	2196.3	1979.6	1877.3	1814.0
5064.7	17.5°	5069.6	5035.5	4755.4	3869.1	2890.3	2184.1	1889.5	1726.4	1636.3	1575.4
5373.9	20°	5376.4	5320.4	4823.6	3598.8	2493.4	1926.0	1682.5	1546.2	1478.0	1424.4
5812.2	22.5°	5804.9	5724.6	4906.4	3306.7	2213.4	1748.3	1529.1	1429.3	1373.3	1312.4
6423.4	25°	6335.7	6240.8	5008.7	3036.4	2021.0	1594.9	1417.1	1334.3	1268.6	1198.0
7224.5	27.5°	7078.4	6907.9	5130.4	2814.8	1855.4	1463.4	1314.9	1222.3	1146.9	1088.4
8132.7	30°	7906.3	7626.2	5237.6	2680.9	1704.5	1341.7	1180.9	1088.4	1017.8	976.4
8948.4	32.5°	8690.3	8310.5	5308.2	2622.4	1568.1	1202.9	1034.9	935.0	881.4	869.3
9747.1	35°	9430.5	8928.9	5300.9	2566.4	1446.4	1064.1	891.2	788.9	747.5	754.8
10606.6	37.5°	10282.8	9588.8	5249.7	2478.8	1346.5	937.5	767.0	676.9	640.4	642.8
11651.2	40°	11273.8	10350.9	5218.1	2313.2	1237.0	820.6	664.7	591.7	564.9	555.2
12751.8	42.5°	12330.6	11088.7	5223.0	2125.7	1100.6	715.9	594.1	533.3	508.9	501.6
13976.6	45°	13392.2	11792.4	5230.3	1930.9	956.9	635.5	543.0	491.9	477.2	467.5
15218.4	47.5°	14390.5	12391.4	5093.9	1721.5	815.7	574.6	501.6	467.5	455.3	443.2
16465.1	50°	15320.7	12790.8	4765.2	1478.0	703.7	525.9	469.9	445.6	433.4	421.2
17594.9	52.5°	16043.8	12854.1	4222.2	1227.2	625.8	489.4	450.5	428.5	413.9	401.8
18508.0	55°	16365.3	12457.2	3450.3	993.5	564.9	457.8	431.0	409.1	392.0	379.9
19226.3	57.5°	16282.5	11622.0	2690.6	798.7	506.5	426.1	406.6	392.0	372.5	353.1
19808.3	60°	15875.8	10504.3	2028.3	664.7	452.9	392.0	379.9	367.7	340.9	311.7
20032.3	62.5°	15172.1	9099.4	1446.4	550.3	394.5	353.1	348.2	338.5	299.5	245.9
19701.1	65°	14095.9	7392.5	974.0	457.8	338.5	309.2	311.7	294.6	243.5	182.6
18488.5	67.5°	12522.9	5405.6	623.3	375.0	282.5	258.1	260.5	250.8	207.0	155.8
16189.9	70°	10519.0	3579.4	406.6	284.9	226.4	199.7	214.3	216.7	175.3	126.6
12425.5	72.5°	7711.5	2113.5	284.9	211.8	165.6	138.8	175.3	180.2	141.2	95.0
7475.3	75°	4395.1	1003.2	214.3	153.4	102.3	97.4	136.4	136.4	97.4	63.3
3236.0	77.5°	1845.7	418.8	151.0	99.8	58.4	56.0	92.5	85.2	48.7	29.2
788.9	80°	533.3	187.5	80.4	48.7	24.3	21.9	36.5	26.8	12.2	4.9
299.5	82.5°	209.4	82.8	31.7	19.5	9.7	9.7	4.9	0.0	0.0	0.0
170.4	85°	124.2	34.1	14.6	7.3	2.4	0.0	0.0	0.0	0.0	0.0
36.5	87.5°	31.7	7.3	4.9	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>
4224.6
4195.4
4015.2
3501.4
2780.7
2169.5
1816.5
1570.5
1414.7
1302.7
1190.7
1076.2
969.1
876.6
754.8
652.6
552.7
499.2
467.5
443.2
421.2
399.3
377.4
350.6
306.8
241.1
177.8
148.5
121.7
90.1
58.4
29.2
4.9
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