

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: P943176

Luminaire Tested: **GALN-SB7C-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943176
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-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 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: 44192 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

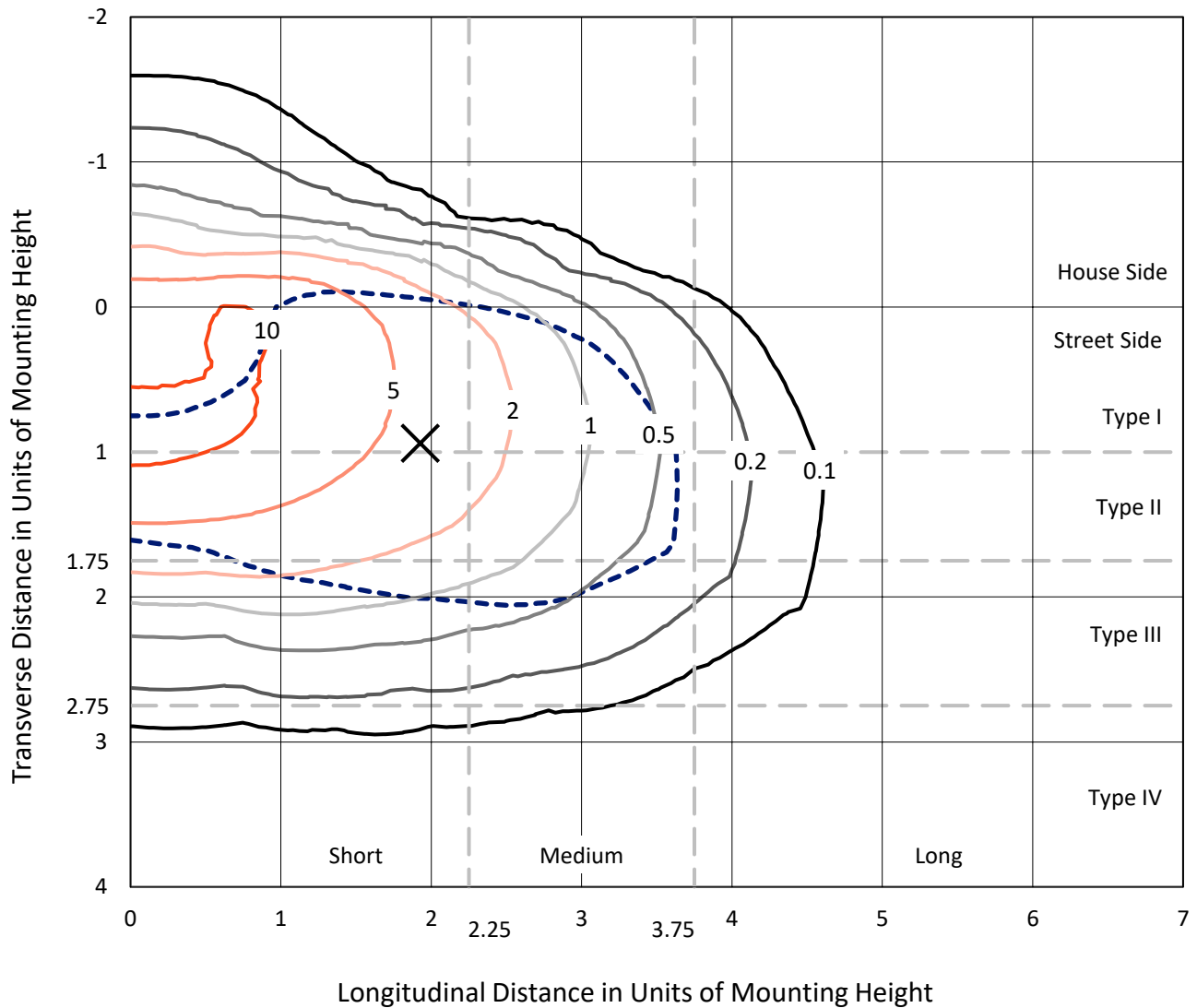
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

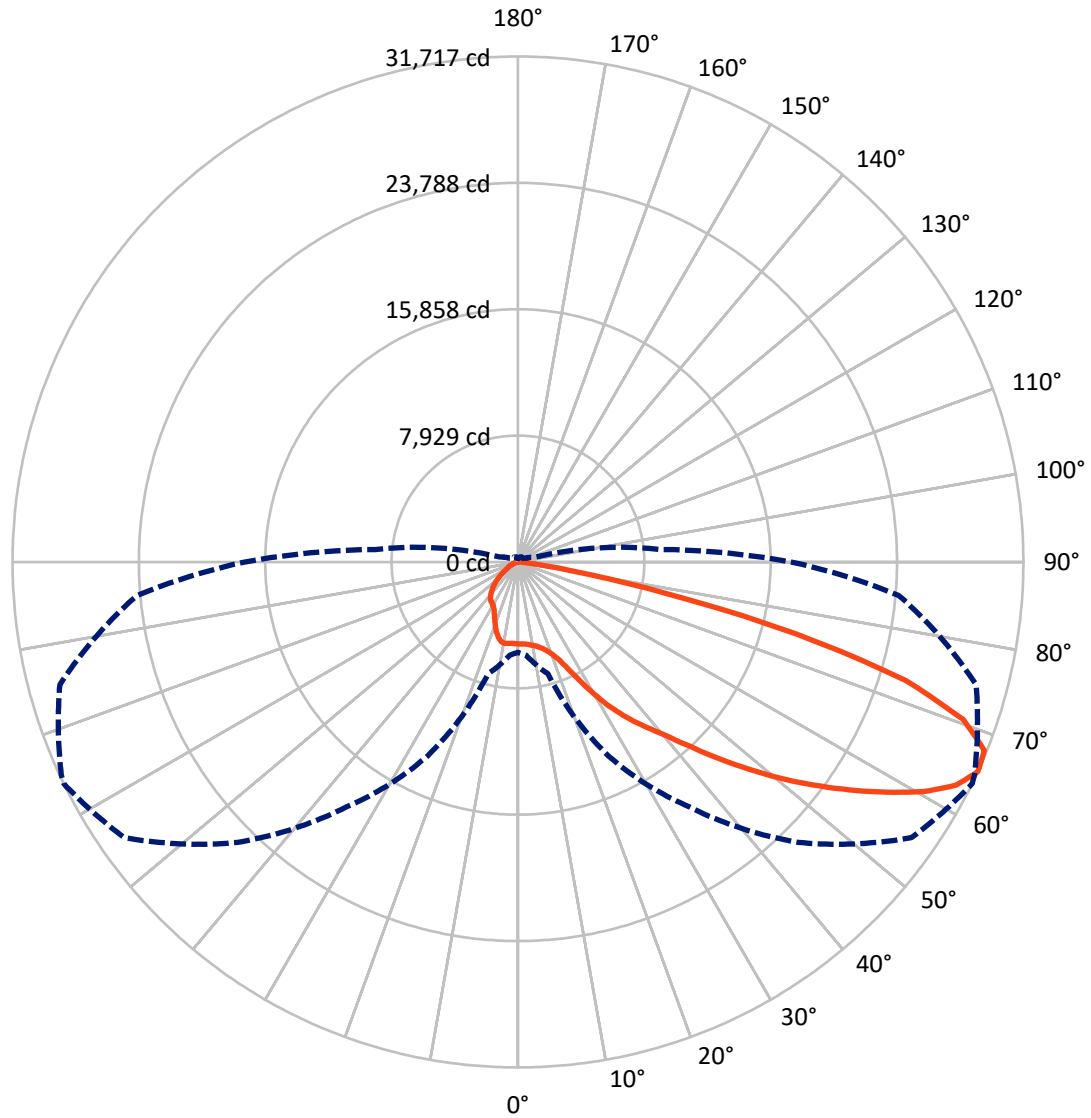
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	5909.8	0.0	5909.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	38282.2	0.0	38282.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	44192.0	0.0	44192.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.2	1.1
10°-20°	1286.2	2.9
20°-30°	2437.3	5.5
30°-40°	4931.9	11.2
40°-50°	8401.5	19.0
50°-60°	11425.3	25.9
60°-70°	10729.0	24.3
70°-80°	4298.5	9.7
80°-90°	208.2	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°	44192.0	100.0
0°-180°	44192.0	100.0

Coefficient of Utilization



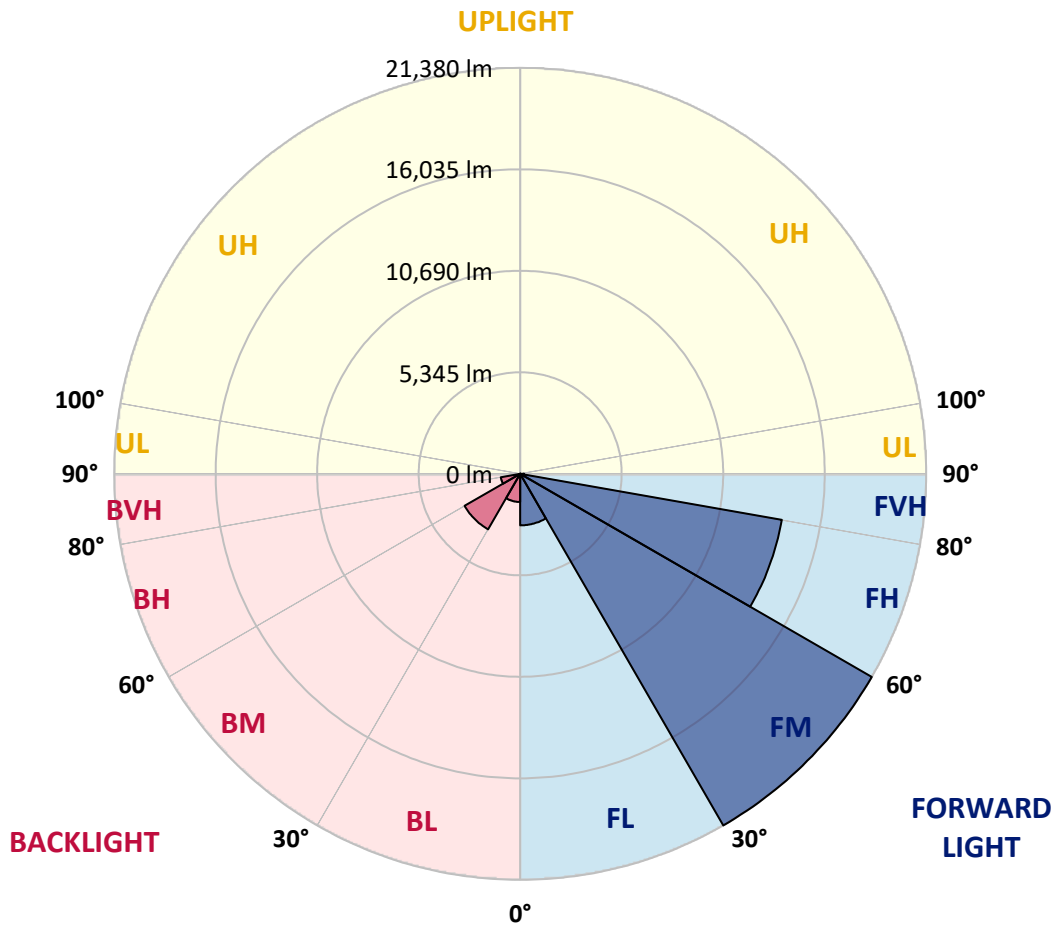
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2713.9	6.1			
FM (30°-60°)	21380.0	48.4			
FH (60°-80°)	13990.2	31.7			G5
FVH (80°-90°)	198.1	0.4			G2/225
BL (0°-30°)	1483.8	3.4	B3/2500		
BM (30°-60°)	3378.6	7.6	B3/5000		
BH (60°-80°)	1037.3	2.3	B3/2500		G3/2500
BVH (80°-90°)	10.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	5140.0	5140.0	5140.0	5140.0	5140.0	5140.0	5140.0	5140.0	5140.0	5140.0
2.5°	5122.2	5157.8	5148.9	5140.0	5137.0	5143.0	5145.9	5143.0	5143.0	5143.0
5°	5024.4	5054.1	5054.1	5074.8	5104.4	5140.0	5166.7	5172.6	5178.5	5187.4
7.5°	4837.8	4861.5	4879.3	4947.4	5021.5	5116.3	5196.3	5237.8	5243.7	5276.3
10°	4710.4	4740.0	4769.7	4840.8	4947.4	5089.6	5225.9	5326.6	5341.4	5418.5
12.5°	4704.5	4734.1	4772.6	4849.7	4974.1	5125.2	5291.1	5436.2	5462.9	5575.5
15°	4766.7	4802.3	4837.8	4932.6	5065.9	5249.6	5427.4	5608.1	5634.7	5794.7
17.5°	4894.1	4941.5	4968.2	5063.0	5205.2	5409.6	5643.6	5851.0	5874.7	6061.3
20°	5145.9	5202.2	5211.1	5288.1	5427.4	5646.6	5925.1	6182.8	6212.4	6425.7
22.5°	5667.3	5747.3	5676.2	5714.7	5839.1	6058.4	6360.6	6686.4	6727.9	6970.8
25°	6585.7	6698.3	6514.6	6449.4	6502.8	6730.9	7110.1	7521.9	7569.3	7764.8
27.5°	8389.9	8244.7	7966.2	7693.7	7533.7	7664.1	8090.7	8600.2	8659.5	8849.1
30°	10371.8	10244.4	9868.2	9263.8	8884.6	8863.9	9257.9	9826.7	9894.8	10075.6
32.5°	12356.7	12235.2	11826.4	11082.8	10425.1	10099.3	10371.8	11002.8	11038.4	11153.9
35°	14309.0	14184.6	13775.8	13014.4	12205.6	11465.0	11411.7	12122.7	12134.5	12256.0
37.5°	16273.2	16169.5	15734.0	14987.4	14190.5	13168.4	12673.7	13183.3	13198.1	13316.6
40°	17674.5	17718.9	17419.7	16842.0	16157.6	15040.8	14089.8	14312.0	14223.1	14421.6
42.5°	18877.2	18966.1	18705.4	18415.1	18018.1	17034.5	15843.6	15805.1	15662.9	15769.5
45°	19917.1	19991.1	19757.1	19689.0	19680.1	18989.8	17760.4	17529.3	17330.8	17310.1
47.5°	20299.3	20441.5	20542.2	20770.3	21214.7	20924.3	19742.3	19383.8	19161.6	18998.7
50°	20444.4	20595.5	20939.2	21602.8	22654.5	22778.9	21715.3	21312.4	21039.9	20743.6
52.5°	20248.9	20518.5	20980.6	22097.5	23623.2	24266.1	23608.4	23255.9	22944.8	22461.9
55°	19096.5	19366.1	20311.1	22091.6	24106.1	25308.9	25397.8	25240.8	24891.2	24129.8
57.5°	16667.2	17067.1	18563.2	21339.1	24097.2	26206.5	27151.6	27264.2	26873.1	25782.9
60°	13301.8	13843.9	15668.8	19671.2	23353.6	26692.4	28689.1	29252.0	28837.3	27412.3
62.5°	9281.6	9909.7	11636.8	17058.2	21653.1	26342.8	29811.9	30851.8	30537.8	28869.8
65°	5661.4	5862.8	7255.2	13423.2	18761.7	24879.3	30158.5	31716.8	31613.2	29761.6
67.5°	3771.3	3940.2	4340.1	9204.6	14563.8	21955.3	29329.0	31565.8	31595.4	29616.4
70°	2272.3	2417.4	2678.1	5353.3	9438.6	17378.2	26760.5	29640.1	29811.9	27675.9
72.5°	936.2	1033.9	1270.9	2426.3	4888.2	11029.5	21309.5	25448.1	25848.1	23270.7
75°	530.3	580.7	746.6	1217.6	2121.2	5140.0	12907.7	18065.5	18655.0	16039.1
77.5°	352.5	376.2	482.9	788.0	1193.9	1753.8	5516.2	9412.0	10537.7	8760.2
80°	237.0	257.7	331.8	527.3	776.2	752.5	1756.8	3486.9	4289.7	3009.9
82.5°	160.0	162.9	237.0	346.6	491.8	364.4	518.4	1084.3	1362.8	871.0
85°	91.8	88.9	174.8	201.5	219.2	151.1	157.0	325.9	426.6	367.4
87.5°	11.9	17.8	68.1	53.3	29.6	32.6	32.6	56.3	83.0	88.9
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°
5140.0	0°	5140.0	5140.0	5140.0	5140.0	5140.0	5140.0	5140.0	5140.0	5140.0	5140.0
5145.9	2.5°	5145.9	5143.0	5134.1	5125.2	5104.4	5092.6	5098.5	5092.6	5089.6	5092.6
5184.4	5°	5184.4	5175.5	5151.8	5122.2	5080.7	5030.4	4997.8	4950.4	4905.9	4879.3
5288.1	7.5°	5288.1	5279.2	5246.6	5163.7	5030.4	4820.0	4627.5	4458.6	4331.2	4257.2
5454.0	10°	5454.0	5439.2	5388.8	5205.2	4855.6	4396.4	4014.2	3697.2	3489.9	3392.1
5649.5	12.5°	5649.5	5631.8	5542.9	5166.7	4523.8	3806.9	3279.5	2927.0	2734.4	2648.5
5874.7	15°	5880.6	5856.9	5682.1	4983.0	4040.9	3155.1	2672.2	2408.5	2284.1	2207.1
6162.1	17.5°	6168.0	6126.5	5785.8	4707.5	3516.5	2657.4	2298.9	2100.4	1990.8	1916.8
6538.3	20°	6541.3	6473.1	5868.8	4378.6	3033.6	2343.4	2047.1	1881.2	1798.3	1733.1
7071.6	22.5°	7062.7	6964.9	5969.5	4023.1	2692.9	2127.1	1860.5	1739.0	1670.9	1596.8
7815.2	25°	7708.5	7593.0	6093.9	3694.3	2458.9	1940.5	1724.2	1623.5	1543.5	1457.6
8789.8	27.5°	8612.1	8404.7	6242.0	3424.7	2257.4	1780.5	1599.8	1487.2	1395.4	1324.3
9894.8	30°	9619.3	9278.6	6372.4	3261.7	2073.8	1632.4	1436.8	1324.3	1238.3	1188.0
10887.3	32.5°	10573.3	10111.1	6458.3	3190.6	1907.9	1463.5	1259.1	1137.6	1072.4	1057.6
11859.0	35°	11473.9	10863.6	6449.4	3122.5	1759.7	1294.6	1084.3	959.9	909.5	918.4
12904.8	37.5°	12510.8	11666.4	6387.2	3015.9	1638.3	1140.6	933.2	823.6	779.1	782.1
14175.7	40°	13716.5	12593.7	6348.7	2814.4	1505.0	998.4	808.8	719.9	687.3	675.5
15514.8	42.5°	15002.2	13491.4	6354.6	2586.3	1339.1	871.0	722.9	648.8	619.2	610.3
17004.9	45°	16293.9	14347.5	6363.5	2349.3	1164.3	773.2	660.6	598.4	580.7	568.8
18515.8	47.5°	17508.5	15076.3	6197.6	2094.5	992.4	699.2	610.3	568.8	554.0	539.2
20032.6	50°	18640.2	15562.2	5797.7	1798.3	856.2	639.9	571.8	542.1	527.3	512.5
21407.2	52.5°	19520.1	15639.2	5137.0	1493.1	761.4	595.5	548.1	521.4	503.6	488.8
22518.2	55°	19911.2	15156.3	4197.9	1208.7	687.3	557.0	524.4	497.7	477.0	462.2
23392.1	57.5°	19810.4	14140.2	3273.6	971.7	616.2	518.4	494.7	477.0	453.3	429.6
24100.2	60°	19315.7	12780.4	2467.8	808.8	551.0	477.0	462.2	447.3	414.8	379.2
24372.7	62.5°	18459.5	11071.0	1759.7	669.5	479.9	429.6	423.6	411.8	364.4	299.2
23969.8	65°	17150.1	8994.2	1185.0	557.0	411.8	376.2	379.2	358.5	296.3	222.2
22494.5	67.5°	15236.3	6576.8	758.4	456.2	343.7	314.0	317.0	305.1	251.8	189.6
19697.9	70°	12798.1	4354.9	494.7	346.6	275.5	242.9	260.7	263.7	213.3	154.1
15117.8	72.5°	9382.3	2571.5	346.6	257.7	201.5	168.9	213.3	219.2	171.8	115.5
9095.0	75°	5347.4	1220.6	260.7	186.6	124.4	118.5	165.9	165.9	118.5	77.0
3937.2	77.5°	2245.6	509.6	183.7	121.5	71.1	68.1	112.6	103.7	59.3	35.6
959.9	80°	648.8	228.1	97.8	59.3	29.6	26.7	44.4	32.6	14.8	5.9
364.4	82.5°	254.8	100.7	38.5	23.7	11.9	11.9	5.9	0.0	0.0	0.0
207.4	85°	151.1	41.5	17.8	8.9	3.0	0.0	0.0	0.0	0.0	0.0
44.4	87.5°	38.5	8.9	5.9	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>
5140.0
5104.4
4885.2
4260.1
3383.2
2639.6
2210.0
1910.8
1721.2
1585.0
1448.7
1309.4
1179.1
1066.5
918.4
794.0
672.5
607.3
568.8
539.2
512.5
485.9
459.2
426.6
373.3
293.3
216.3
180.7
148.1
109.6
71.1
35.6
5.9
0.0
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