

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: P954190

Luminaire Tested: **GALN-SB7C-735-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-735-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40704 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

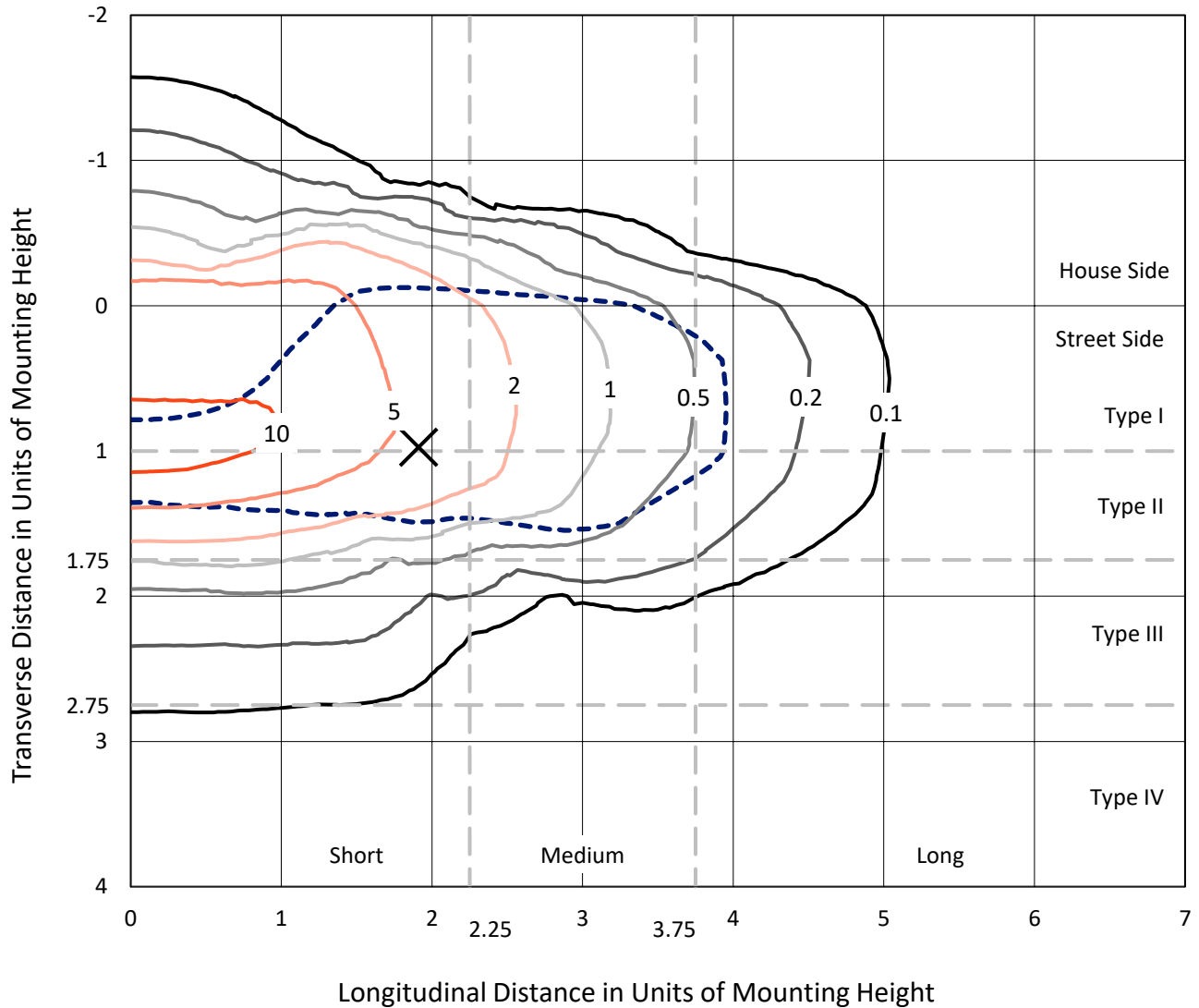
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954190
 CATALOG NUMBER: GALN-SB7C-735-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

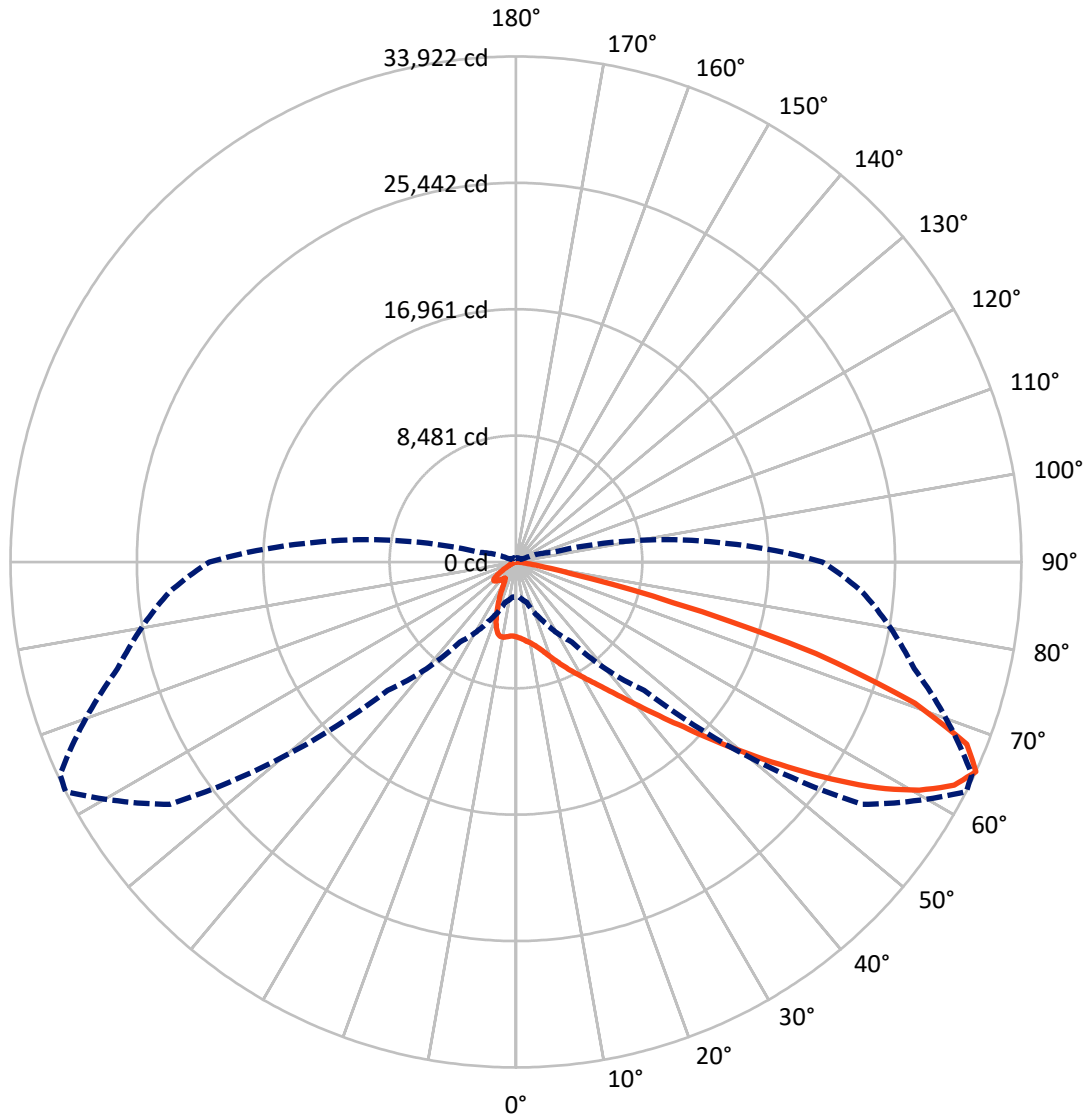
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - N/A

REPORT NUMBER: P954190
CATALOG NUMBER: GALN-SB7C-735-U-T2U-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5983.2	0.0	5983.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	34720.8	0.0	34720.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	40704.0	0.0	40704.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.3	1.2
10°-20°	1313.3	3.2
20°-30°	2286.8	5.6
30°-40°	4121.7	10.1
40°-50°	8174.6	20.1
50°-60°	11135.2	27.4
60°-70°	8888.0	21.8
70°-80°	4022.0	9.9
80°-90°	289.1	0.7
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°	40704.0	100.0
0°-180°	40704.0	100.0

Coefficient of Utilization



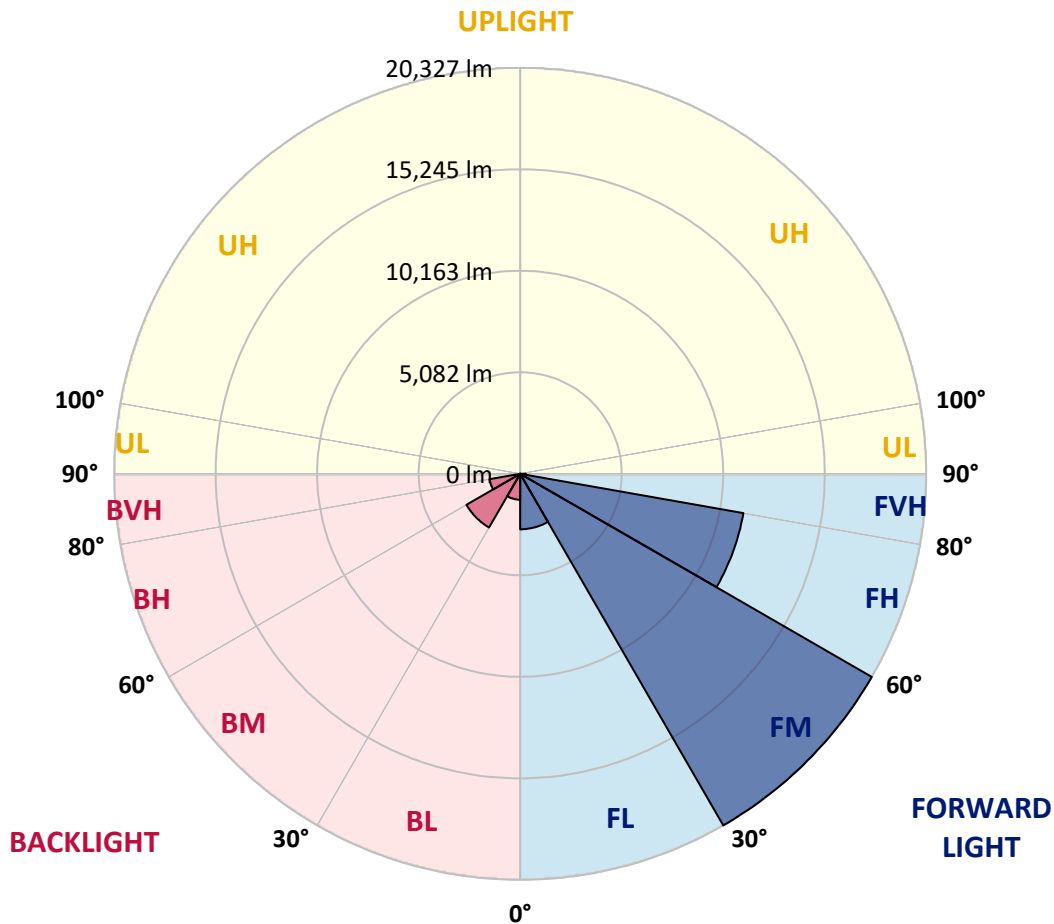
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2778.5	6.8			
FM (30°-60°)	20326.6	49.9			
FH (60°-80°)	11348.1	27.9			G4/12000
FVH (80°-90°)	267.6	0.7			G3/500
BL (0°-30°)	1294.9	3.2	B3/2500		
BM (30°-60°)	3104.9	7.6	B3/5000		
BH (60°-80°)	1561.9	3.8	B3/2500		G3/2500
BVH (80°-90°)	21.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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 CATALOG NUMBER: GALN-SB7C-735-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	5023.6	5023.6	5023.6	5023.6	5023.6	5023.6	5023.6	5023.6	5023.6	5023.6
2.5°	5141.3	5127.3	5146.9	5138.5	5132.9	5121.7	5116.1	5110.5	5099.2	5090.8
5°	5155.3	5146.9	5166.5	5183.3	5200.1	5216.9	5225.3	5236.5	5225.3	5202.9
7.5°	5037.6	5032.0	5074.0	5124.5	5200.1	5264.5	5334.5	5373.7	5376.5	5368.1
10°	5029.2	5015.2	5057.2	5118.9	5216.9	5331.7	5454.9	5538.9	5550.1	5586.5
12.5°	5160.9	5146.9	5205.7	5272.9	5373.7	5494.1	5645.3	5762.9	5779.7	5830.1
15°	5382.1	5362.5	5429.7	5516.5	5645.3	5782.5	5942.1	6048.5	6062.5	6124.1
17.5°	5639.7	5620.1	5698.5	5790.9	5930.9	6118.5	6303.4	6421.0	6437.8	6477.0
20°	5970.1	5944.9	6006.5	6090.5	6238.9	6463.0	6684.2	6852.2	6849.4	6849.4
22.5°	6353.8	6314.6	6367.8	6435.0	6575.0	6846.6	7140.6	7339.4	7339.4	7261.0
25°	6765.4	6726.2	6785.0	6846.6	6969.8	7277.8	7622.3	7868.7	7879.9	7745.5
27.5°	7280.6	7230.2	7275.0	7347.8	7420.7	7734.3	8143.1	8428.7	8434.3	8227.1
30°	8271.9	8129.1	7989.1	7910.7	7944.3	8255.1	8692.0	9008.4	9036.4	8750.8
32.5°	10086.5	10058.5	9565.6	8921.6	8585.6	8815.2	9305.2	9686.1	9702.9	9336.0
35°	12906.3	12872.7	12080.3	10853.8	9758.9	9565.6	10050.1	10500.9	10489.7	10075.3
37.5°	16272.2	16241.4	15196.9	13556.0	11783.4	10699.7	11010.6	11483.8	11553.8	11010.6
40°	19148.1	19033.3	18372.4	16790.3	14471.7	12581.5	12377.1	12690.7	12763.5	12119.5
42.5°	21326.7	21228.7	20892.6	19904.2	17725.6	15365.0	13987.2	14107.6	14188.9	13416.0
45°	22455.2	22432.8	22567.2	22474.8	21041.1	18781.3	16289.0	15787.8	15818.6	14852.5
47.5°	22614.8	22603.6	23216.8	24084.9	23891.7	22634.4	19243.3	17882.4	17773.2	16473.9
50°	21673.9	21651.5	22827.6	24454.6	25795.9	25871.5	22598.0	20243.0	20002.2	18151.2
52.5°	18669.2	18663.6	20595.8	23303.7	26465.1	28705.3	25913.5	22836.0	22432.8	19926.6
55°	14365.3	14468.9	16683.9	19884.6	25244.2	30069.0	28890.1	25714.7	25095.8	21713.1
57.5°	10176.1	10327.3	12517.1	15367.8	21458.3	29262.6	30903.5	28598.9	27932.5	23494.1
60°	5466.1	5600.5	7793.1	11195.4	15964.2	26255.1	31964.8	31102.3	30472.3	25185.4
62.5°	3256.7	3301.5	4208.8	7227.4	10797.8	20058.2	31514.0	33009.3	32491.3	26605.1
65°	2338.2	2346.6	2803.0	4413.2	6555.4	12186.7	28352.5	33922.2	33762.6	27674.8
67.5°	1968.6	1963.0	2153.4	2931.9	4466.4	6104.5	21729.9	32631.3	33308.9	28352.5
70°	1688.5	1696.9	1921.0	2147.8	3357.5	3455.5	10803.4	28411.3	29856.2	28531.7
72.5°	1257.3	1285.3	1492.5	1957.4	2534.2	2377.4	3729.9	21066.3	23678.9	26882.4
75°	887.7	901.7	1050.1	1646.5	1890.2	1730.6	1904.2	10890.2	14239.3	20609.8
77.5°	683.3	708.5	795.3	1150.9	1862.2	1215.3	1164.9	3769.1	5790.9	12449.9
80°	369.6	414.4	574.1	831.7	1307.7	859.7	576.9	1500.9	1963.0	5821.7
82.5°	190.4	212.8	400.4	599.3	744.9	750.5	285.6	624.5	809.3	1797.8
85°	75.6	92.4	268.8	330.4	383.6	369.6	128.8	252.0	291.2	498.4
87.5°	16.8	28.0	98.0	75.6	72.8	78.4	30.8	58.8	56.0	58.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954190
 CATALOG NUMBER: GALN-SB7C-735-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5023.6	0°	5023.6	5023.6	5023.6	5023.6	5023.6	5023.6	5023.6	5023.6	5023.6	5023.6
5057.2	2.5°	5054.4	5043.2	5012.4	4978.8	4939.6	4917.2	4903.2	4900.4	4880.8	4866.8
5169.3	5°	5138.5	5127.3	5068.4	4998.4	4922.8	4864.0	4808.0	4757.6	4684.8	4670.8
5331.7	7.5°	5306.5	5275.7	5180.5	5085.2	4942.4	4771.6	4564.4	4326.4	4113.6	4049.2
5547.3	10°	5513.7	5471.7	5351.3	5183.3	4866.8	4402.0	3900.7	3435.9	3066.3	2962.7
5802.1	12.5°	5748.9	5712.5	5552.9	5242.1	4550.4	3707.5	2940.3	2363.4	2005.0	1915.4
6073.7	15°	6028.9	5975.7	5754.5	5152.5	3984.8	2817.0	2019.0	1677.3	1548.5	1531.7
6384.6	17.5°	6325.8	6238.9	5933.7	4830.4	3223.1	2002.2	1559.7	1461.7	1405.7	1388.9
6698.2	20°	6597.4	6485.4	6040.1	4343.2	2408.2	1559.7	1397.3	1332.9	1282.5	1262.9
7011.8	22.5°	6869.0	6709.4	6040.1	3679.5	1806.2	1383.3	1282.5	1223.7	1164.9	1139.7
7347.8	25°	7151.8	6939.0	5933.7	2940.3	1453.3	1268.5	1173.3	1108.9	1058.5	1027.7
7667.1	27.5°	7426.3	7132.2	5690.1	2240.2	1293.7	1167.7	1072.5	1010.9	963.3	940.9
8014.3	30°	7686.7	7322.6	5348.5	1699.7	1190.1	1069.7	980.1	926.9	879.3	856.9
8465.1	32.5°	8039.5	7563.5	4984.4	1394.5	1100.5	977.3	896.1	845.7	803.7	786.9
9050.4	35°	8529.6	7919.1	4670.8	1369.3	1024.9	901.7	820.5	772.9	730.9	716.9
9806.5	37.5°	9224.0	8493.1	4505.6	1537.3	963.3	834.5	758.9	708.5	669.3	658.1
10766.9	40°	10080.9	9271.6	4595.2	1705.4	921.3	775.7	702.9	652.5	618.9	604.9
11870.2	42.5°	11097.4	10232.1	5090.8	1834.2	893.3	725.3	649.7	593.7	571.3	565.6
13122.0	45°	12265.1	11287.8	5849.7	1971.4	848.5	677.7	596.5	554.4	537.6	534.8
14482.9	47.5°	13592.4	12447.1	6729.0	2142.2	803.7	632.9	554.4	526.4	512.4	506.8
15902.6	50°	14908.5	13614.8	7633.5	2237.4	767.3	590.9	520.8	498.4	487.2	484.4
17403.5	52.5°	16286.2	14816.1	8364.3	2147.8	736.5	557.2	492.8	476.0	464.8	462.0
18786.9	55°	17599.6	15787.8	8490.3	1823.0	674.9	523.6	462.0	453.6	439.6	439.6
20189.8	57.5°	18730.9	16275.0	7599.9	1338.5	613.3	473.2	431.2	422.8	411.6	408.8
21455.5	60°	19769.7	16135.0	5866.5	901.7	546.0	422.8	392.0	386.4	375.2	361.2
22556.0	62.5°	20355.0	15519.0	4012.8	588.1	478.8	369.6	347.2	344.4	319.2	291.2
23370.9	65°	20576.2	14253.3	2503.4	428.4	400.4	316.4	299.6	294.0	257.6	226.8
23832.9	67.5°	20383.0	12169.9	1262.9	338.8	316.4	263.2	246.4	246.4	221.2	193.2
23804.9	70°	19610.1	9123.2	532.0	271.6	243.6	201.6	201.6	212.8	187.6	156.8
22570.0	72.5°	17932.8	6138.1	282.8	207.2	182.0	142.8	165.2	173.6	148.4	117.6
18473.2	75°	14256.1	3743.9	196.0	154.0	114.8	100.8	126.0	131.6	100.8	78.4
12665.5	77.5°	9750.5	2150.6	131.6	98.0	72.8	58.8	86.8	81.2	53.2	36.4
4883.6	80°	4281.6	896.1	75.6	44.8	28.0	22.4	30.8	22.4	16.8	11.2
669.3	82.5°	501.2	210.0	28.0	16.8	11.2	5.6	2.8	0.0	0.0	0.0
204.4	85°	103.6	25.2	14.0	5.6	2.8	0.0	0.0	0.0	0.0	0.0
36.4	87.5°	19.6	5.6	2.8	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>
5023.6
4880.8
4665.2
4018.4
2923.5
1890.2
1514.9
1380.5
1251.7
1125.7
1016.5
940.9
859.7
786.9
716.9
655.3
602.1
565.6
532.0
506.8
484.4
462.0
436.8
406.0
358.4
285.6
224.0
190.4
154.0
117.6
75.6
39.2
11.2
0.0
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