

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: P943166

Luminaire Tested: **GALN-SB7C-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943166
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-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 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: 41770 lumens
Efficiency: N/A
Efficacy: 119.2 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

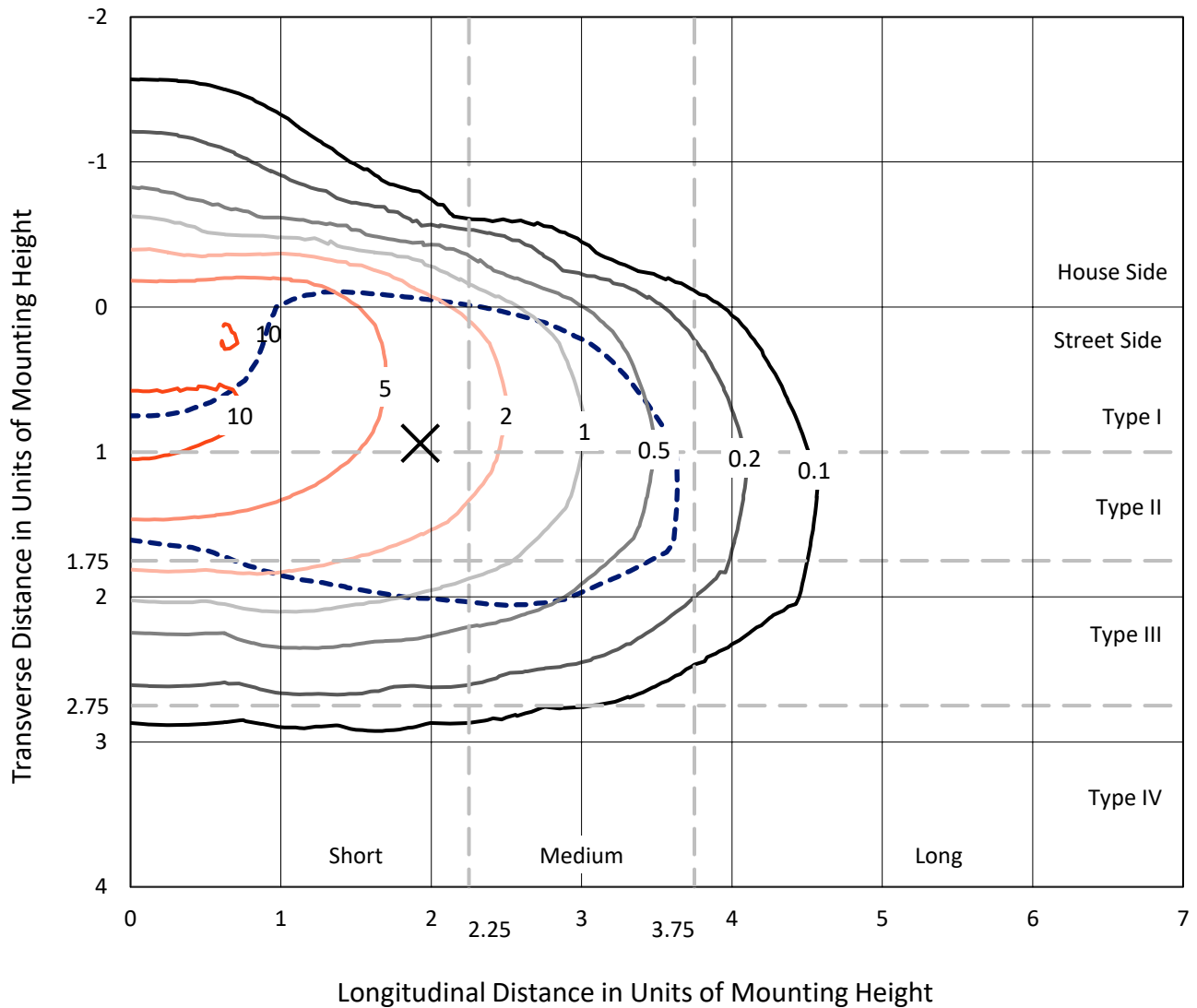
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

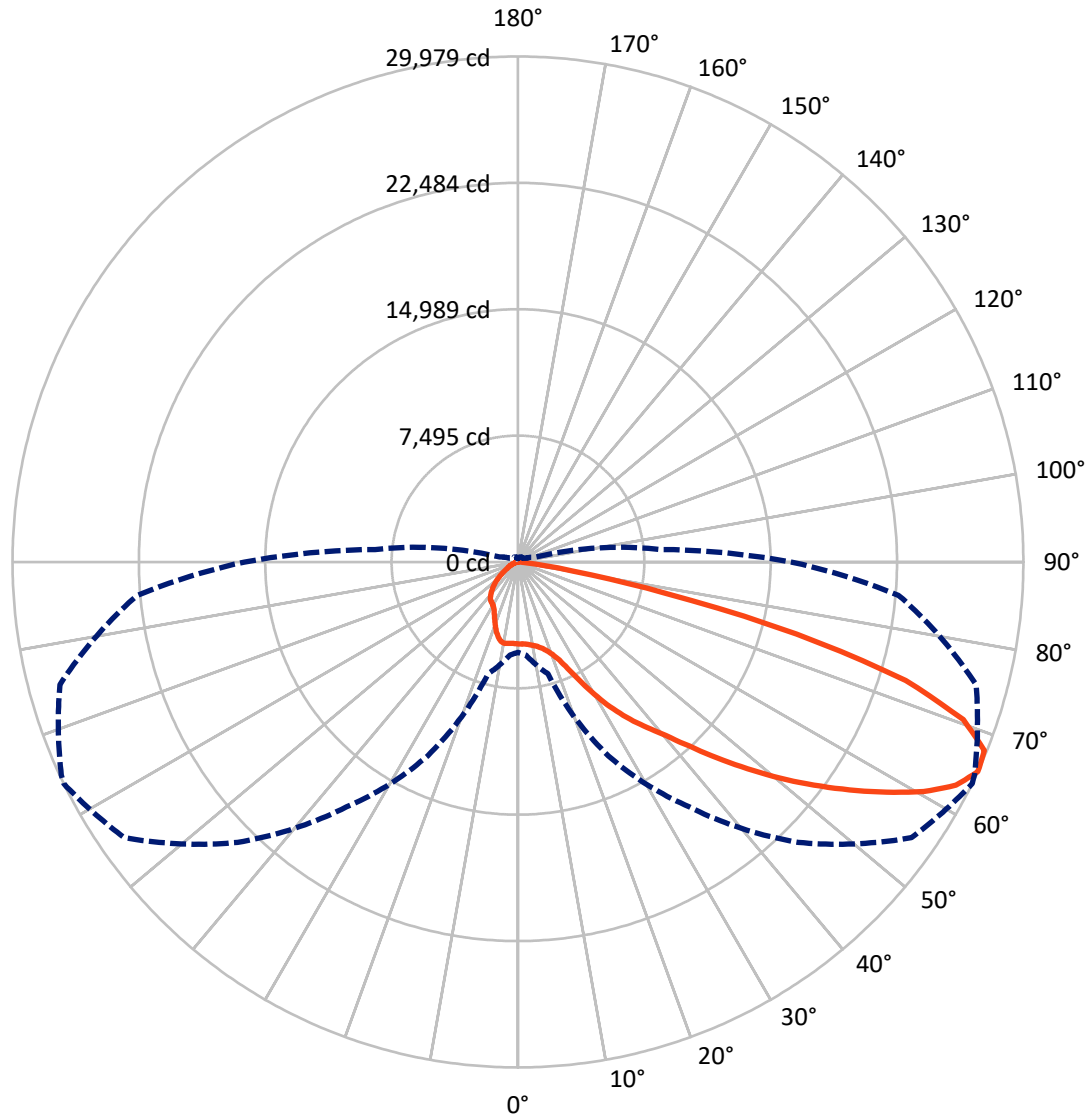
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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	5585.9	0.0	5585.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	36184.1	0.0	36184.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	41770.0	0.0	41770.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.2	1.1
10°-20°	1215.7	2.9
20°-30°	2303.7	5.5
30°-40°	4661.6	11.2
40°-50°	7941.0	19.0
50°-60°	10799.1	25.9
60°-70°	10140.9	24.3
70°-80°	4062.9	9.7
80°-90°	196.8	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°	41770.0	100.0
0°-180°	41770.0	100.0

Coefficient of Utilization



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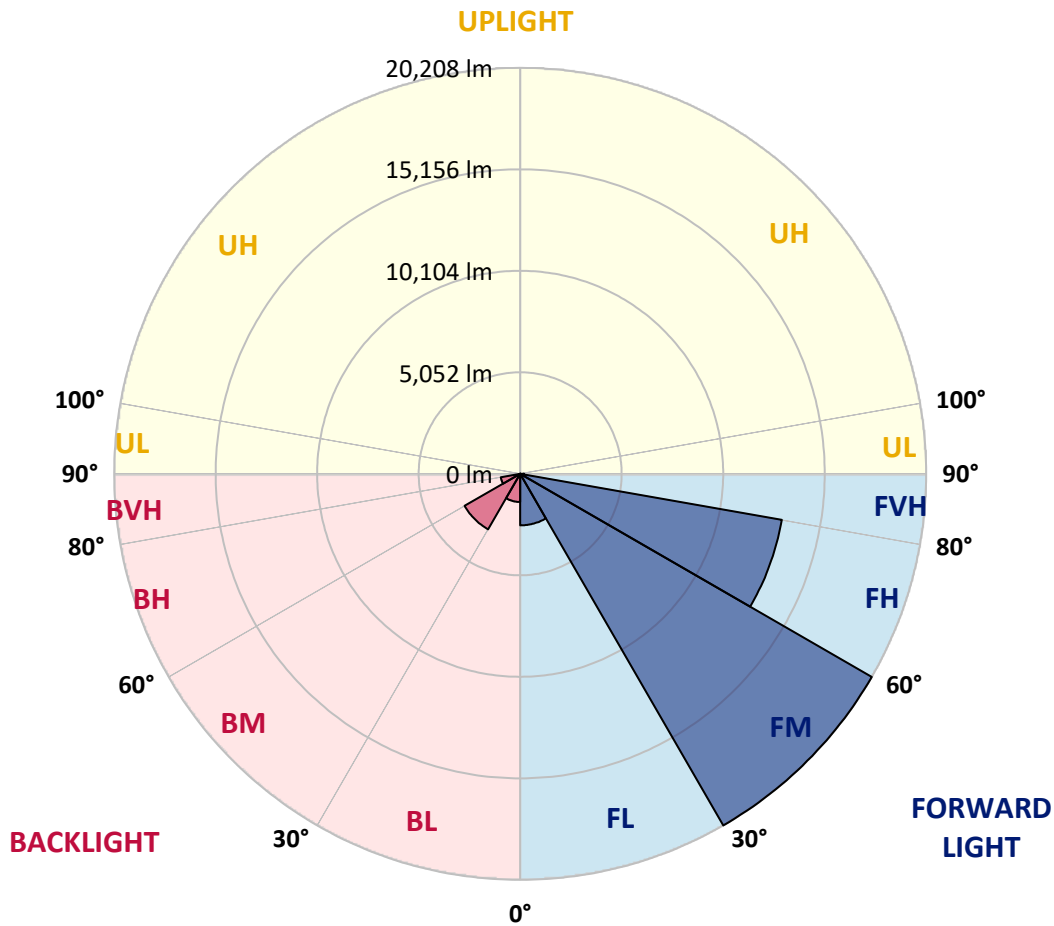
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2565.2	6.1			
FM (30°-60°)	20208.3	48.4			
FH (60°-80°)	13223.4	31.7			G5
FVH (80°-90°)	187.2	0.4			G2/225
BL (0°-30°)	1402.5	3.4	B3/2500		
BM (30°-60°)	3193.4	7.6	B3/5000		
BH (60°-80°)	980.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	9.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3
2.5°	4841.5	4875.1	4866.7	4858.3	4855.5	4861.1	4863.9	4861.1	4861.1	4861.1
5°	4749.1	4777.1	4777.1	4796.7	4824.7	4858.3	4883.5	4889.1	4894.7	4903.1
7.5°	4572.7	4595.1	4611.9	4676.3	4746.3	4835.9	4911.5	4950.7	4956.3	4987.1
10°	4452.3	4480.3	4508.3	4575.5	4676.3	4810.7	4939.5	5034.7	5048.7	5121.5
12.5°	4446.7	4474.7	4511.1	4583.9	4701.5	4844.3	5001.1	5138.3	5163.5	5269.9
15°	4505.5	4539.1	4572.7	4662.3	4788.3	4961.9	5129.9	5300.7	5325.9	5477.1
17.5°	4625.9	4670.7	4695.9	4785.5	4919.9	5113.1	5334.3	5530.3	5552.7	5729.1
20°	4863.9	4917.1	4925.5	4998.3	5129.9	5337.1	5600.3	5843.9	5871.9	6073.6
22.5°	5356.7	5432.3	5365.1	5401.5	5519.1	5726.3	6012.0	6320.0	6359.2	6588.8
25°	6224.8	6331.2	6157.6	6096.0	6146.4	6362.0	6720.4	7109.6	7154.4	7339.2
27.5°	7930.1	7792.9	7529.6	7272.0	7120.8	7244.0	7647.2	8128.9	8184.9	8364.1
30°	9803.4	9683.0	9327.3	8756.1	8397.7	8378.1	8750.5	9288.1	9352.5	9523.4
32.5°	11679.5	11564.7	11178.3	10475.4	9853.8	9545.8	9803.4	10399.8	10433.4	10542.6
35°	13524.8	13407.2	13020.8	12301.1	11536.7	10836.6	10786.2	11458.3	11469.5	11584.3
37.5°	15381.3	15283.3	14871.7	14166.0	13412.8	12446.7	11979.1	12460.7	12474.7	12586.7
40°	16705.8	16747.8	16465.0	15918.9	15272.1	14216.4	13317.6	13527.6	13443.6	13631.2
42.5°	17842.6	17926.7	17680.2	17405.8	17030.6	16100.9	14975.3	14938.9	14804.5	14905.3
45°	18825.5	18895.5	18674.3	18609.9	18601.5	17949.1	16787.0	16568.6	16381.0	16361.4
47.5°	19186.7	19321.1	19416.3	19632.0	20052.0	19777.6	18660.3	18321.5	18111.5	17957.5
50°	19323.9	19466.7	19791.6	20418.8	21412.9	21530.5	20525.2	20144.4	19886.8	19606.7
52.5°	19139.1	19393.9	19830.8	20886.4	22328.5	22936.1	22314.5	21981.3	21687.3	21230.8
55°	18049.9	18304.7	19197.9	20880.8	22784.9	23921.8	24005.8	23857.4	23527.0	22807.3
57.5°	15753.7	16131.7	17545.8	20169.6	22776.5	24770.3	25663.5	25769.9	25400.3	24369.8
60°	12572.7	13085.2	14810.1	18593.1	22073.7	25229.5	27116.8	27648.8	27256.8	25909.9
62.5°	8772.9	9366.5	10999.0	16123.3	20466.4	24899.1	28178.1	29160.9	28864.1	27287.6
65°	5351.1	5541.5	6857.6	12687.5	17733.4	23515.8	28505.7	29978.6	29880.6	28130.4
67.5°	3564.6	3724.2	4102.2	8700.1	13765.6	20752.0	27721.6	29835.7	29863.8	27993.2
70°	2147.7	2284.9	2531.3	5059.9	8921.3	16425.8	25293.9	28015.6	28178.1	26159.1
72.5°	884.9	977.3	1201.3	2293.3	4620.3	10425.0	20141.6	24053.4	24431.4	21995.3
75°	501.2	548.8	705.6	1150.9	2004.9	4858.3	12200.3	17075.4	17632.6	15160.1
77.5°	333.2	355.6	456.4	744.8	1128.5	1657.7	5213.9	8896.1	9960.2	8280.1
80°	224.0	243.6	313.6	498.4	733.6	711.2	1660.5	3295.8	4054.6	2845.0
82.5°	151.2	154.0	224.0	327.6	464.8	344.4	490.0	1024.9	1288.1	823.2
85°	86.8	84.0	165.2	190.4	207.2	142.8	148.4	308.0	403.2	347.2
87.5°	11.2	16.8	64.4	50.4	28.0	30.8	30.8	53.2	78.4	84.0
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°
4858.3	0°	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3
4863.9	2.5°	4863.9	4861.1	4852.7	4844.3	4824.7	4813.5	4819.1	4813.5	4810.7	4813.5
4900.3	5°	4900.3	4891.9	4869.5	4841.5	4802.3	4754.7	4723.9	4679.1	4637.1	4611.9
4998.3	7.5°	4998.3	4989.9	4959.1	4880.7	4754.7	4555.9	4373.9	4214.2	4093.8	4023.8
5155.1	10°	5155.1	5141.1	5093.5	4919.9	4589.5	4155.4	3794.2	3494.6	3298.6	3206.2
5339.9	12.5°	5339.9	5323.1	5239.1	4883.5	4275.9	3598.2	3099.8	2766.6	2584.6	2503.3
5552.7	15°	5558.3	5535.9	5370.7	4709.9	3819.4	2982.2	2525.7	2276.5	2158.9	2086.1
5824.3	17.5°	5829.9	5790.7	5468.7	4449.5	3323.8	2511.7	2172.9	1985.3	1881.7	1811.7
6180.0	20°	6182.8	6118.4	5547.1	4138.6	2867.4	2214.9	1934.9	1778.1	1699.7	1638.1
6684.0	22.5°	6675.6	6583.2	5642.3	3802.6	2545.3	2010.5	1758.5	1643.7	1579.3	1509.3
7386.8	25°	7286.0	7176.8	5759.9	3491.8	2324.1	1834.1	1629.7	1534.5	1458.9	1377.7
8308.1	27.5°	8140.1	7944.1	5899.9	3237.0	2133.7	1682.9	1512.1	1405.7	1318.9	1251.7
9352.5	30°	9092.1	8770.1	6023.2	3083.0	1960.1	1542.9	1358.1	1251.7	1170.5	1122.9
10290.6	32.5°	9993.8	9557.0	6104.4	3015.8	1803.3	1383.3	1190.1	1075.3	1013.7	999.7
11209.1	35°	10845.0	10268.2	6096.0	2951.4	1663.3	1223.7	1024.9	907.3	859.7	868.1
12197.5	37.5°	11825.1	11027.0	6037.2	2850.6	1548.5	1078.1	882.1	778.4	736.4	739.2
13398.8	40°	12964.8	11903.5	6000.8	2660.2	1422.5	943.7	764.4	680.4	649.6	638.4
14664.5	42.5°	14180.0	12751.9	6006.4	2444.5	1265.7	823.2	683.2	613.2	585.2	576.8
16072.9	45°	15400.9	13561.2	6014.8	2220.5	1100.5	730.8	624.4	565.6	548.8	537.6
17501.0	47.5°	16549.0	14250.0	5857.9	1979.7	938.1	660.8	576.8	537.6	523.6	509.6
18934.7	50°	17618.6	14709.3	5479.9	1699.7	809.2	604.8	540.4	512.4	498.4	484.4
20234.0	52.5°	18450.3	14782.1	4855.5	1411.3	719.6	562.8	518.0	492.8	476.0	462.0
21284.0	55°	18819.9	14325.6	3967.8	1142.5	649.6	526.4	495.6	470.4	450.8	436.8
22110.1	57.5°	18724.7	13365.2	3094.2	918.5	582.4	490.0	467.6	450.8	428.4	406.0
22779.3	60°	18257.1	12079.9	2332.5	764.4	520.8	450.8	436.8	422.8	392.0	358.4
23037.0	62.5°	17447.8	10464.2	1663.3	632.8	453.6	406.0	400.4	389.2	344.4	282.8
22656.1	65°	16210.2	8501.3	1120.1	526.4	389.2	355.6	358.4	338.8	280.0	210.0
21261.6	67.5°	14401.2	6216.4	716.8	431.2	324.8	296.8	299.6	288.4	238.0	179.2
18618.3	70°	12096.7	4116.2	467.6	327.6	260.4	229.6	246.4	249.2	201.6	145.6
14289.2	72.5°	8868.1	2430.5	327.6	243.6	190.4	159.6	201.6	207.2	162.4	109.2
8596.5	75°	5054.3	1153.7	246.4	176.4	117.6	112.0	156.8	156.8	112.0	72.8
3721.4	77.5°	2122.5	481.6	173.6	114.8	67.2	64.4	106.4	98.0	56.0	33.6
907.3	80°	613.2	215.6	92.4	56.0	28.0	25.2	42.0	30.8	14.0	5.6
344.4	82.5°	240.8	95.2	36.4	22.4	11.2	11.2	5.6	0.0	0.0	0.0
196.0	85°	142.8	39.2	16.8	8.4	2.8	0.0	0.0	0.0	0.0	0.0
42.0	87.5°	36.4	8.4	5.6	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>
4858.3
4824.7
4617.5
4026.6
3197.8
2494.9
2088.9
1806.1
1626.9
1498.1
1369.3
1237.7
1114.5
1008.1
868.1
750.4
635.6
574.0
537.6
509.6
484.4
459.2
434.0
403.2
352.8
277.2
204.4
170.8
140.0
103.6
67.2
33.6
5.6
0.0
0.0
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