

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: P955872

Luminaire Tested: **GALN-SB8C-940-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955872  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8C-940-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

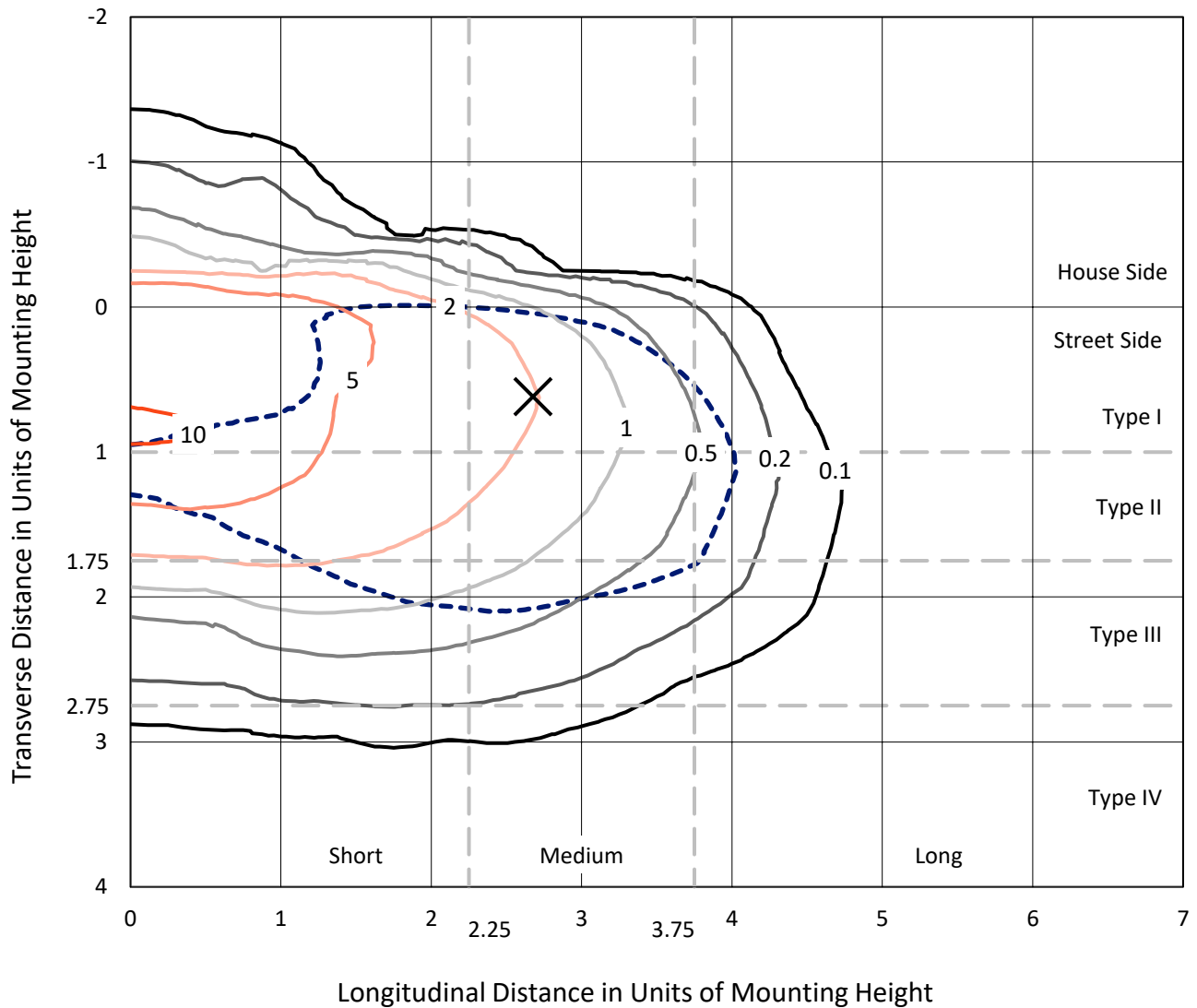
Lumens per Lamp: N/A  
Luminaire Lumens: 36534 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

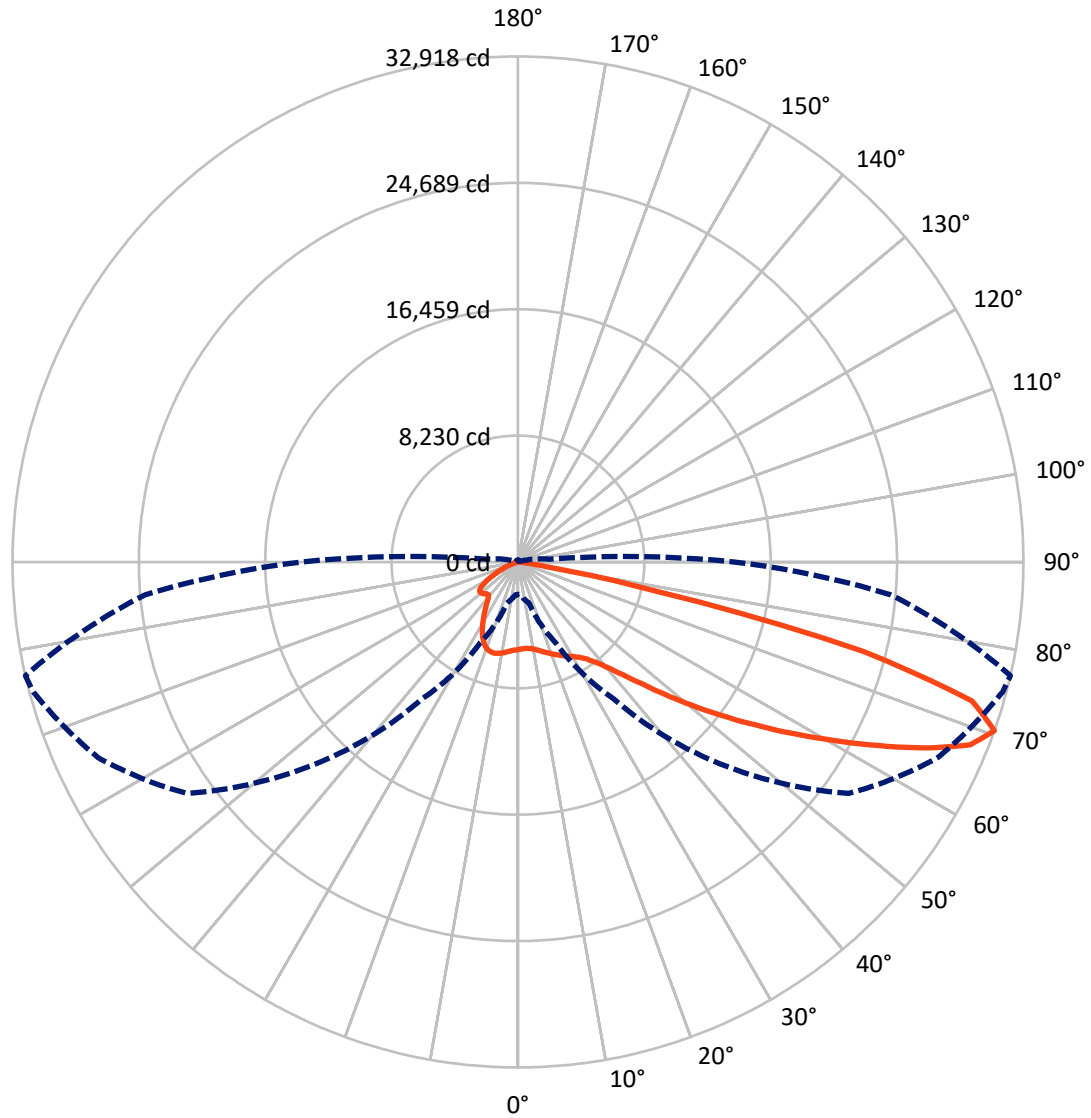
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3851.2	0.0	3851.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	32682.8	0.0	32682.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	36534.0	0.0	36534.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	491.1	1.3
10°-20°	1165.9	3.2
20°-30°	1803.3	4.9
30°-40°	3272.2	9.0
40°-50°	6176.7	16.9
50°-60°	8924.8	24.4
60°-70°	9500.2	26.0
70°-80°	5034.4	13.8
80°-90°	165.3	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°	36534.0	100.0
0°-180°	36534.0	100.0

**Coefficient of Utilization**

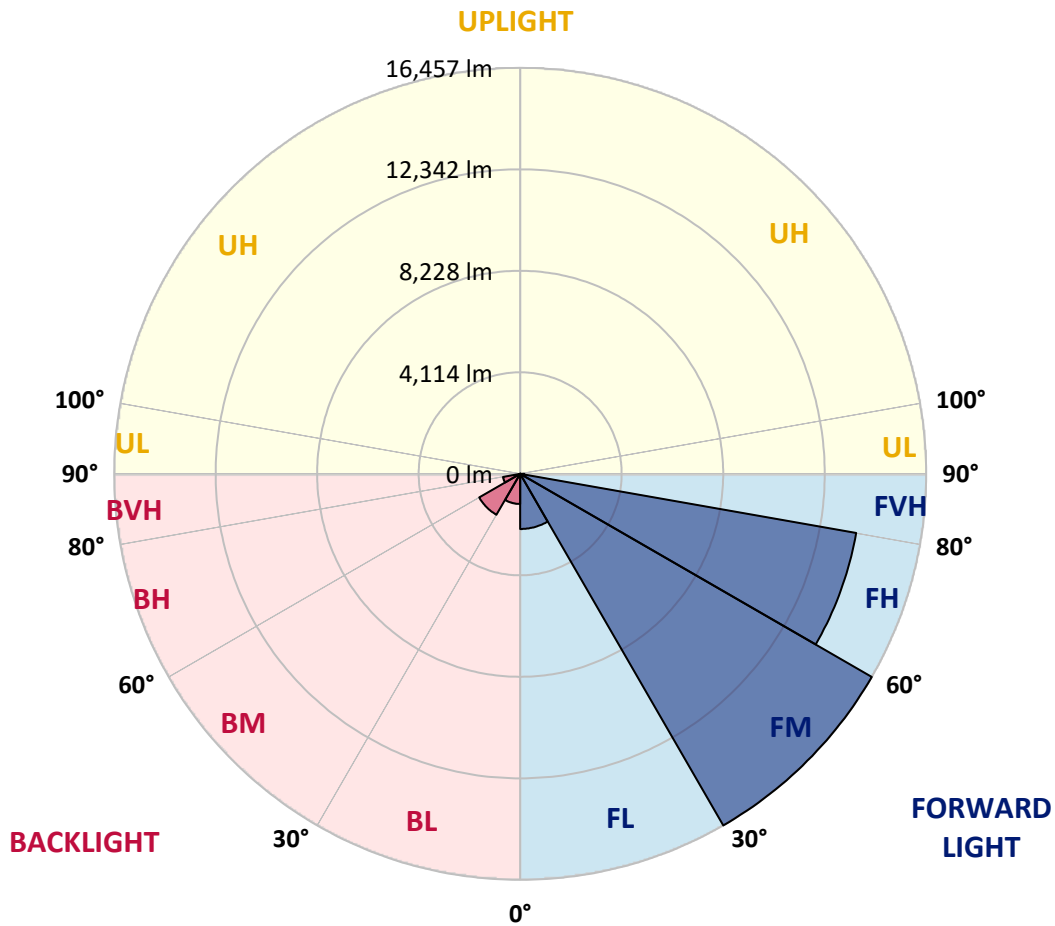


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2236.7	6.1			
FM (30°-60°)	16456.6	45.0			
FH (60°-80°)	13828.6	37.9			G5
FVH (80°-90°)	160.9	0.4			G2/225
BL (0°-30°)	1223.6	3.3	B3/2500		
BM (30°-60°)	1917.1	5.2	B2/2500		
BH (60°-80°)	706.0	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.4	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-G5**  
 Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5698.6	5698.6	5698.6	5698.6	5698.6	5698.6	5698.6	5698.6	5698.6	5698.6
2.5°	5350.3	5398.7	5391.8	5424.1	5435.6	5481.8	5527.9	5590.2	5659.4	5657.1
5°	5048.0	5096.5	5108.0	5151.9	5207.2	5278.7	5373.3	5497.9	5627.1	5647.9
7.5°	4690.4	4741.2	4771.2	4858.8	4960.4	5108.0	5262.6	5444.9	5659.4	5689.4
10°	4332.8	4379.0	4418.2	4542.8	4704.3	4923.4	5174.9	5437.9	5726.3	5770.2
12.5°	4111.3	4155.2	4199.0	4307.4	4508.2	4775.8	5117.2	5470.2	5837.1	5899.4
15°	4032.9	4072.1	4106.7	4203.6	4390.5	4695.0	5105.7	5537.1	5977.8	6060.9
17.5°	4044.4	4065.2	4088.3	4162.1	4344.4	4658.1	5126.5	5652.5	6143.9	6217.8
20°	4111.3	4122.9	4125.2	4175.9	4337.4	4653.5	5168.0	5763.2	6300.8	6400.0
22.5°	4196.7	4201.3	4196.7	4231.3	4381.3	4688.1	5223.4	5897.1	6476.2	6568.4
25°	4595.8	4508.2	4397.4	4330.5	4455.1	4755.0	5306.4	6077.0	6667.6	6757.6
27.5°	5834.8	5583.3	5186.5	4741.2	4607.4	4851.9	5421.8	6259.3	6861.4	6942.2
30°	7846.6	7516.7	6843.0	5839.4	5096.5	5055.0	5571.8	6441.5	7066.8	7154.5
32.5°	9863.0	9782.3	9004.8	7615.9	6197.0	5507.2	5820.9	6688.4	7339.0	7408.2
35°	11902.6	11738.7	11102.0	9729.2	7892.7	6427.7	6236.2	7011.4	7696.6	7775.1
37.5°	13464.5	13365.3	12970.8	11840.3	9904.6	7848.9	6946.8	7512.1	8215.7	8303.4
40°	14844.2	14798.0	14664.2	13919.0	12154.0	9708.5	8051.9	8287.3	8935.6	9039.4
42.5°	15928.5	16037.0	16113.1	15905.4	14472.7	11831.0	9537.7	9376.2	9939.2	10045.3
45°	17038.3	17075.2	17382.0	17681.9	16775.2	14050.5	11212.7	10652.1	11187.3	11318.8
47.5°	17751.2	17898.8	18438.7	18967.0	18710.9	16251.5	13012.3	12158.6	12633.9	12880.8
50°	17804.2	18083.4	18826.3	19746.8	20120.6	18346.4	14968.7	13875.2	14380.4	14652.7
52.5°	16920.6	17354.3	18505.6	19853.0	20882.0	20120.6	16992.1	15591.7	16240.0	16595.3
55°	12973.1	13540.6	17299.0	19276.2	20911.9	21465.7	18962.4	17379.7	18311.8	18713.2
57.5°	11302.7	11588.8	13600.6	18274.9	20355.9	22007.8	20743.5	19082.4	20565.9	21064.2
60°	9403.9	9780.0	11406.5	16636.8	19601.5	22060.9	22317.0	21278.8	23009.1	23569.8
62.5°	6390.8	6799.2	8416.5	13822.1	18570.2	22035.5	23606.7	23539.8	25724.6	26326.8
65°	3959.1	4215.2	5281.1	11286.5	17128.2	22063.2	24956.4	26285.3	28590.1	29201.5
67.5°	3128.5	3246.2	3802.2	8665.6	14643.4	21440.3	26303.7	28867.0	31287.2	31771.7
70°	2101.8	2173.3	2766.3	5809.4	10894.3	18565.6	26278.4	30163.6	32676.1	32918.3
72.5°	1107.4	1162.8	1617.3	2690.1	6580.0	13196.9	22150.9	28613.2	31294.1	30929.6
75°	553.7	646.0	1089.0	1365.8	2810.1	7359.8	13755.2	22559.2	24631.1	23219.1
77.5°	419.9	507.6	899.8	899.8	978.2	2477.9	5825.5	12304.0	11348.8	9450.1
80°	267.6	346.1	786.7	680.6	408.4	629.9	1518.1	3446.9	2411.0	1834.2
82.5°	156.9	226.1	655.2	449.9	228.4	233.0	429.1	733.7	625.2	486.8
85°	62.3	147.7	449.9	177.7	90.0	57.7	129.2	156.9	129.2	96.9
87.5°	0.0	34.6	78.4	0.0	6.9	4.6	9.2	11.5	11.5	9.2
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°
5698.6	0°	5698.6	5698.6	5698.6	5698.6	5698.6	5698.6	5698.6	5698.6	5698.6	5698.6
5703.3	2.5°	5724.0	5728.6	5742.5	5744.8	5712.5	5671.0	5654.8	5647.9	5620.2	5617.9
5740.2	5°	5793.2	5814.0	5793.2	5733.3	5590.2	5389.5	5237.2	5112.6	4999.6	4965.0
5867.1	7.5°	5931.7	5952.4	5890.1	5654.8	5294.9	4895.8	4535.8	4282.1	4053.7	3968.3
6021.6	10°	6130.1	6157.8	5961.7	5486.4	4849.6	4208.2	3599.1	3170.0	2835.5	2699.4
6231.6	12.5°	6379.3	6390.8	6000.9	5230.3	4270.5	3354.6	2491.7	2032.6	1735.0	1624.2
6485.4	15°	6653.8	6637.7	6005.5	4881.9	3481.5	2371.7	1626.5	1335.8	1215.9	1179.0
6739.2	17.5°	6942.2	6875.3	5913.2	4379.0	2616.3	1621.9	1206.6	1137.4	1116.7	1107.4
6990.6	20°	7226.0	7076.0	5744.8	3721.4	1878.0	1211.3	1095.9	1075.1	1063.6	1059.0
7244.4	22.5°	7484.4	7228.3	5456.4	2957.8	1363.5	1070.5	1035.9	1017.5	996.7	987.5
7491.3	25°	7735.9	7316.0	5050.3	2244.9	1091.3	1001.3	973.6	939.0	911.3	899.8
7756.6	27.5°	7980.4	7371.3	4542.8	1661.1	973.6	936.7	885.9	837.5	816.7	812.1
8040.4	30°	8241.1	7389.8	3966.0	1238.9	902.1	856.0	782.1	726.8	715.2	717.5
8423.4	32.5°	8559.5	7417.5	3384.6	1015.1	842.1	759.1	671.4	613.7	604.5	613.7
8981.7	35°	8940.2	7472.8	2823.9	934.4	789.0	659.8	565.3	516.8	507.6	514.5
9696.9	37.5°	9457.0	7562.8	2300.2	918.2	745.2	576.8	475.3	436.1	436.1	438.4
10573.6	40°	10144.5	7802.8	1831.9	906.7	722.1	514.5	401.4	385.3	392.2	396.8
11690.3	42.5°	10982.0	8312.6	1515.8	892.9	696.8	486.8	364.5	357.6	369.1	373.8
13028.4	45°	11921.0	8958.6	1405.1	869.8	673.7	505.3	348.4	339.2	353.0	355.3
14528.1	47.5°	12892.3	9590.8	1391.2	844.4	650.6	533.0	343.8	323.0	339.2	341.5
16129.2	50°	13875.2	10003.8	1405.1	805.2	613.7	533.0	346.1	306.9	320.7	327.6
17790.4	52.5°	14864.9	10193.0	1395.8	719.8	549.1	500.7	346.1	293.0	306.9	311.5
19585.3	55°	15824.7	10156.0	1255.1	592.9	466.0	443.0	336.8	281.5	290.7	293.0
21281.1	57.5°	16583.7	9641.6	994.4	461.4	378.4	369.1	306.9	267.6	274.6	272.2
22836.1	60°	16980.6	8511.1	710.6	355.3	297.6	290.7	269.9	249.2	253.8	242.3
24153.5	62.5°	16985.2	7016.0	475.3	281.5	237.6	230.7	230.7	223.8	219.2	196.1
25173.2	65°	16623.0	5357.2	316.1	223.8	191.5	180.0	193.8	191.5	175.3	143.0
25484.7	67.5°	15801.6	3511.5	239.9	175.3	147.7	140.7	154.6	161.5	150.0	120.0
24349.6	70°	14112.8	2044.1	198.4	136.1	110.7	103.8	124.6	138.4	124.6	96.9
20812.7	72.5°	11722.6	1102.8	161.5	101.5	76.1	69.2	99.2	113.1	99.2	71.5
13353.7	75°	7606.7	590.6	124.6	66.9	39.2	43.8	73.8	83.1	69.2	46.1
3919.8	77.5°	2554.0	260.7	78.4	32.3	18.5	18.5	43.8	50.8	32.3	16.2
712.9	80°	569.9	108.4	32.3	13.8	6.9	6.9	9.2	9.2	4.6	0.0
219.2	82.5°	186.9	43.8	13.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0
55.4	85°	71.5	16.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.5	87.5°	27.7	2.3	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>
5698.6
5622.5
4944.2
3933.7
2641.7
1589.6
1179.0
1105.1
1054.4
985.2
895.2
807.5
717.5
611.4
512.2
436.1
396.8
373.8
357.6
343.8
329.9
311.5
293.0
272.2
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