

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: P955618

Luminaire Tested: **GALN-SB8C-735-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955618
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-SB8C-735-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 46281 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

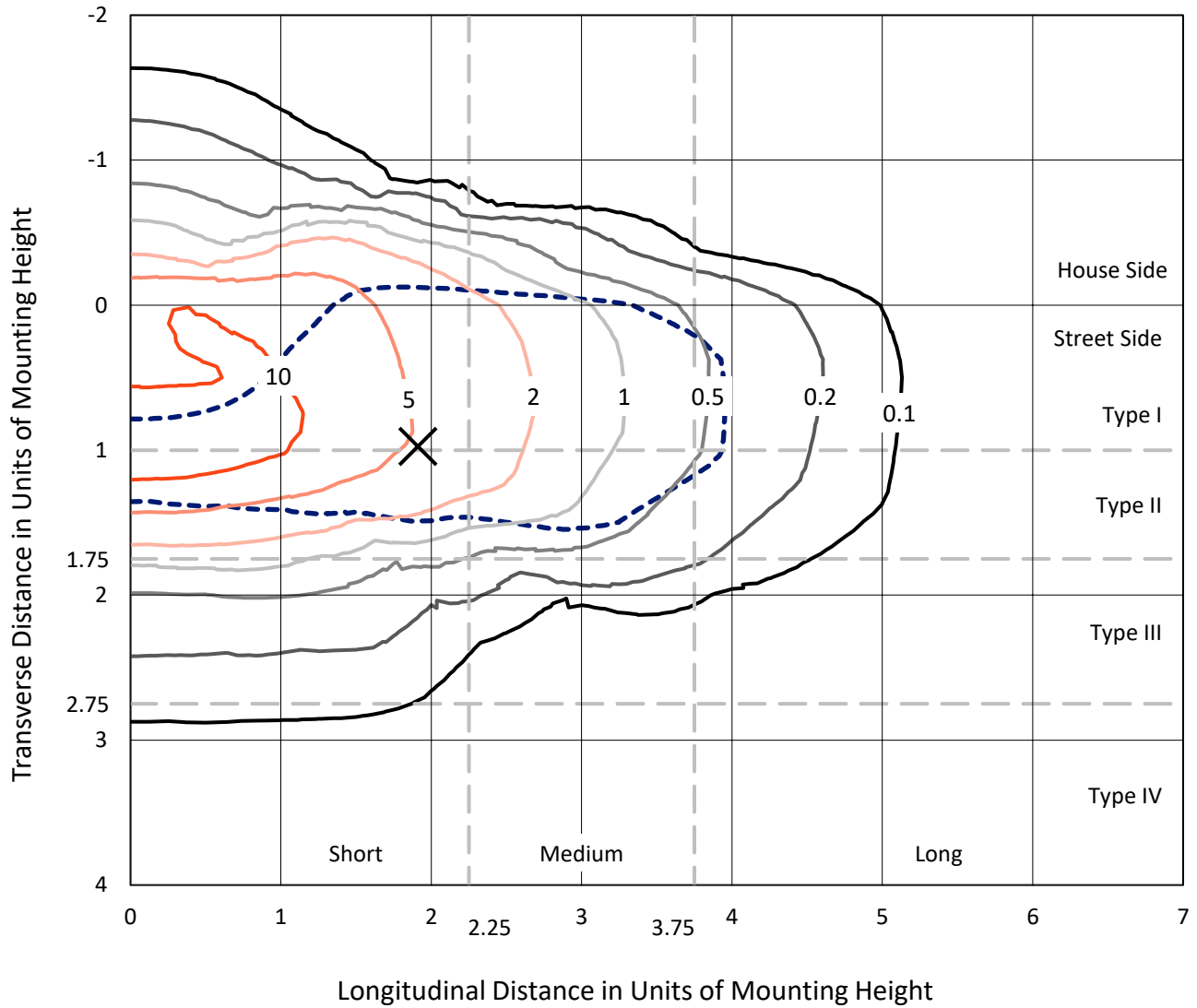
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

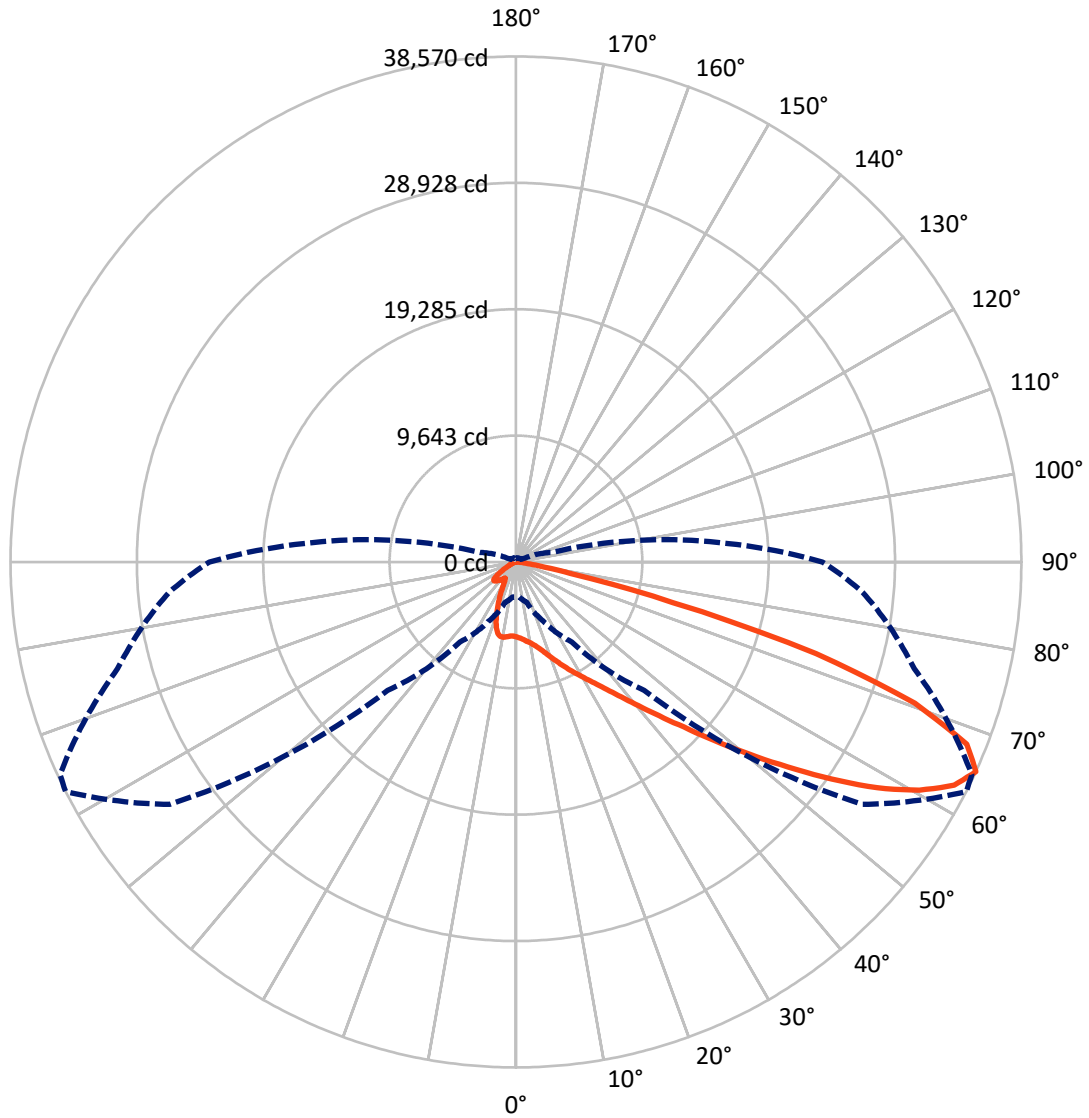
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type II - Short - N/A

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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	6802.9	0.0	6802.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	39478.1	0.0	39478.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	46281.0	0.0	46281.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.2	1.2
10°-20°	1493.2	3.2
20°-30°	2600.1	5.6
30°-40°	4686.4	10.1
40°-50°	9294.6	20.1
50°-60°	12660.8	27.4
60°-70°	10105.8	21.8
70°-80°	4573.1	9.9
80°-90°	328.7	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°	46281.0	100.0
0°-180°	46281.0	100.0

Coefficient of Utilization



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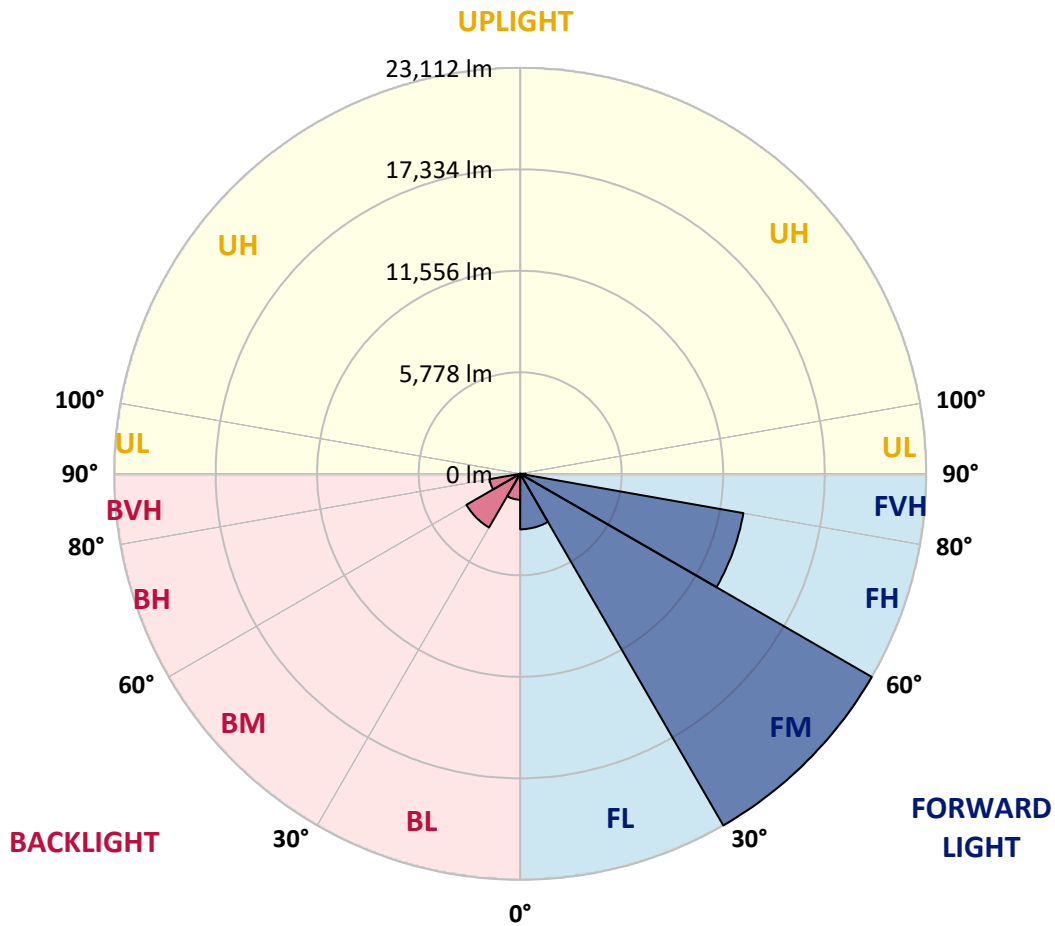
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3159.2	6.8			
FM (30°-60°)	23111.6	49.9			
FH (60°-80°)	12902.9	27.9			G5
FVH (80°-90°)	304.3	0.7			G3/500
BL (0°-30°)	1472.3	3.2	B3/2500		
BM (30°-60°)	3530.3	7.6	B3/5000		
BH (60°-80°)	1776.0	3.8	B3/2500		G3/2500
BVH (80°-90°)	24.4	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-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	5711.9	5711.9	5711.9	5711.9	5711.9	5711.9	5711.9	5711.9	5711.9	5711.9
2.5°	5845.7	5829.8	5852.0	5842.5	5836.1	5823.4	5817.0	5810.7	5797.9	5788.4
5°	5861.6	5852.0	5874.3	5893.4	5912.5	5931.6	5941.2	5953.9	5941.2	5915.7
7.5°	5727.9	5721.5	5769.3	5826.6	5912.5	5985.8	6065.4	6109.9	6113.1	6103.6
10°	5718.3	5702.4	5750.2	5820.2	5931.6	6062.2	6202.3	6297.8	6310.5	6351.9
12.5°	5868.0	5852.0	5918.9	5995.3	6109.9	6246.8	6418.8	6552.5	6571.6	6628.9
15°	6119.5	6097.2	6173.6	6272.3	6418.8	6574.8	6756.3	6877.3	6893.2	6963.2
17.5°	6412.4	6390.1	6479.3	6584.3	6743.5	6956.9	7167.0	7300.7	7319.8	7364.4
20°	6788.1	6759.5	6829.5	6925.0	7093.8	7348.5	7600.0	7791.0	7787.9	7787.9
22.5°	7224.3	7179.7	7240.2	7316.6	7475.8	7784.7	8119.0	8345.1	8345.1	8255.9
25°	7692.3	7647.8	7714.6	7784.7	7924.8	8275.0	8666.6	8946.8	8959.5	8806.7
27.5°	8278.2	8220.9	8271.8	8354.6	8437.4	8794.0	9258.8	9583.6	9590.0	9354.4
30°	9405.3	9242.9	9083.7	8994.6	9032.8	9386.2	9882.9	10242.7	10274.5	9949.7
32.5°	11468.5	11436.6	10876.3	10144.0	9761.9	10023.0	10580.2	11013.2	11032.3	10615.2
35°	14674.7	14636.5	13735.4	12340.9	11096.0	10876.3	11427.1	11939.7	11927.0	11455.7
37.5°	18501.8	18466.7	17279.1	15413.3	13397.9	12165.8	12519.2	13057.2	13136.8	12519.2
40°	21771.6	21641.1	20889.7	19090.8	16454.5	14305.3	14072.9	14429.5	14512.3	13780.0
42.5°	24248.7	24137.3	23755.2	22631.3	20154.2	17470.2	15903.7	16040.6	16132.9	15254.2
45°	25531.8	25506.4	25659.2	25554.1	23924.0	21354.5	18520.9	17950.9	17986.0	16887.5
47.5°	25713.3	25700.6	26397.9	27384.9	27165.2	25735.6	21879.9	20332.5	20208.3	18731.0
50°	24643.5	24618.1	25955.3	27805.2	29330.3	29416.2	25694.2	23016.5	22742.7	20638.2
52.5°	21227.2	21220.8	23417.7	26496.6	30091.2	32638.3	29464.0	25964.9	25506.4	22656.8
55°	16333.5	16451.3	18969.8	22609.0	28703.0	34188.9	32848.5	29237.9	28534.3	24688.1
57.5°	11570.4	11742.3	14232.1	17473.3	24398.4	33271.9	35137.7	32517.4	31759.6	26713.1
60°	6215.0	6367.8	8860.8	12729.3	18151.5	29852.4	36344.4	35363.8	34647.4	28636.2
62.5°	3702.9	3753.8	4785.4	8217.7	12277.2	22806.4	35831.8	37532.0	36943.0	30250.4
65°	2658.6	2668.1	3187.1	5017.9	7453.6	13856.4	32237.2	38570.0	38388.5	31466.7
67.5°	2238.3	2231.9	2448.4	3333.6	5078.4	6940.9	24707.2	37102.2	37872.7	32237.2
70°	1919.9	1929.5	2184.2	2442.1	3817.5	3929.0	12283.6	32304.0	33946.9	32440.9
72.5°	1429.6	1461.4	1697.0	2225.6	2881.4	2703.1	4241.0	23952.6	26923.2	30565.6
75°	1009.3	1025.2	1194.0	1872.1	2149.1	1967.7	2165.1	12382.3	16190.2	23433.6
77.5°	776.9	805.5	904.2	1308.6	2117.3	1381.8	1324.5	4285.6	6584.3	14155.7
80°	420.3	471.2	652.7	945.6	1486.9	977.5	655.9	1706.6	2231.9	6619.4
82.5°	216.5	242.0	455.3	681.4	846.9	853.3	324.8	710.0	920.2	2044.1
85°	86.0	105.1	305.7	375.7	436.2	420.3	146.5	286.6	331.1	566.7
87.5°	19.1	31.8	111.4	86.0	82.8	89.1	35.0	66.9	63.7	66.9
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°
5711.9	0°	5711.9	5711.9	5711.9	5711.9	5711.9	5711.9	5711.9	5711.9	5711.9	5711.9
5750.2	2.5°	5747.0	5734.2	5699.2	5661.0	5616.4	5591.0	5575.0	5571.9	5549.6	5533.7
5877.5	5°	5842.5	5829.8	5762.9	5683.3	5597.3	5530.5	5466.8	5409.5	5326.7	5310.8
6062.2	7.5°	6033.5	5998.5	5890.2	5782.0	5619.6	5425.4	5189.8	4919.2	4677.2	4603.9
6307.3	10°	6269.1	6221.4	6084.5	5893.4	5533.7	5005.1	4435.2	3906.7	3486.4	3368.6
6597.1	12.5°	6536.6	6495.2	6313.7	5960.3	5173.9	4215.5	3343.1	2687.2	2279.7	2177.8
6905.9	15°	6855.0	6794.5	6543.0	5858.4	4530.7	3203.0	2295.6	1907.2	1760.7	1741.6
7259.3	17.5°	7192.5	7093.8	6746.7	5492.3	3664.7	2276.5	1773.4	1662.0	1598.3	1579.2
7615.9	20°	7501.3	7374.0	6867.7	4938.3	2738.2	1773.4	1588.8	1515.5	1458.2	1435.9
7972.5	22.5°	7810.2	7628.7	6867.7	4183.7	2053.6	1572.9	1458.2	1391.4	1324.5	1295.9
8354.6	25°	8131.7	7889.8	6746.7	3343.1	1652.5	1442.3	1334.1	1260.8	1203.5	1168.5
8717.6	27.5°	8443.8	8109.4	6469.7	2547.1	1471.0	1327.7	1219.4	1149.4	1095.3	1069.8
9112.4	30°	8739.9	8325.9	6081.3	1932.6	1353.2	1216.3	1114.4	1053.9	999.8	974.3
9625.0	32.5°	9141.0	8599.8	5667.4	1585.6	1251.3	1111.2	1018.9	961.5	913.8	894.7
10290.4	35°	9698.2	9004.1	5310.8	1556.9	1165.3	1025.2	932.9	878.8	831.0	815.1
11150.1	37.5°	10487.8	9656.8	5122.9	1748.0	1095.3	948.8	862.8	805.5	761.0	748.2
12242.2	40°	11462.1	10542.0	5224.8	1939.0	1047.5	881.9	799.2	741.9	703.6	687.7
13496.6	42.5°	12617.9	11634.0	5788.4	2085.5	1015.7	824.6	738.7	675.0	649.5	643.2
14919.8	45°	13945.6	12834.4	6651.2	2241.5	964.7	770.5	678.2	630.4	611.3	608.1
16467.2	47.5°	15454.7	14152.5	7651.0	2435.7	913.8	719.6	630.4	598.6	582.7	576.3
18081.5	50°	16951.2	15480.2	8679.4	2544.0	872.4	671.8	592.2	566.7	554.0	550.8
19788.1	52.5°	18517.7	16846.1	9510.4	2442.1	837.4	633.6	560.4	541.3	528.5	525.3
21360.9	55°	20010.9	17950.9	9653.6	2072.7	767.3	595.4	525.3	515.8	499.9	499.9
22956.1	57.5°	21297.2	18504.9	8641.2	1521.9	697.3	538.1	490.3	480.8	468.0	464.9
24395.2	60°	22478.5	18345.7	6670.3	1025.2	620.9	480.8	445.7	439.4	426.6	410.7
25646.5	62.5°	23143.9	17645.3	4562.6	668.6	544.5	420.3	394.8	391.6	363.0	331.1
26573.0	65°	23395.4	16206.1	2846.4	487.1	455.3	359.8	340.7	334.3	292.9	257.9
27098.3	67.5°	23175.7	13837.3	1435.9	385.3	359.8	299.3	280.2	280.2	251.5	219.7
27066.5	70°	22297.0	10373.2	604.9	308.8	277.0	229.2	229.2	242.0	213.3	178.3
25662.4	72.5°	20389.8	6979.1	321.6	235.6	207.0	162.4	187.9	197.4	168.7	133.7
21004.3	75°	16209.3	4256.9	222.9	175.1	130.5	114.6	143.3	149.6	114.6	89.1
14400.9	77.5°	11086.4	2445.2	149.6	111.4	82.8	66.9	98.7	92.3	60.5	41.4
5552.8	80°	4868.2	1018.9	86.0	50.9	31.8	25.5	35.0	25.5	19.1	12.7
761.0	82.5°	569.9	238.8	31.8	19.1	12.7	6.4	3.2	0.0	0.0	0.0
232.4	85°	117.8	28.7	15.9	6.4	3.2	0.0	0.0	0.0	0.0	0.0
41.4	87.5°	22.3	6.4	3.2	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>
5711.9
5549.6
5304.4
4568.9
3324.0
2149.1
1722.5
1569.7
1423.2
1279.9
1155.8
1069.8
977.5
894.7
815.1
745.0
684.5
643.2
604.9
576.3
550.8
525.3
496.7
461.7
407.5
324.8
254.7
216.5
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133.7
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