

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: P954631

Luminaire Tested: **GALN-SB7D-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954631
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-SB7D-827-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 900mA 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: 48093 lumens
Efficiency: N/A
Efficacy: 93.8 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

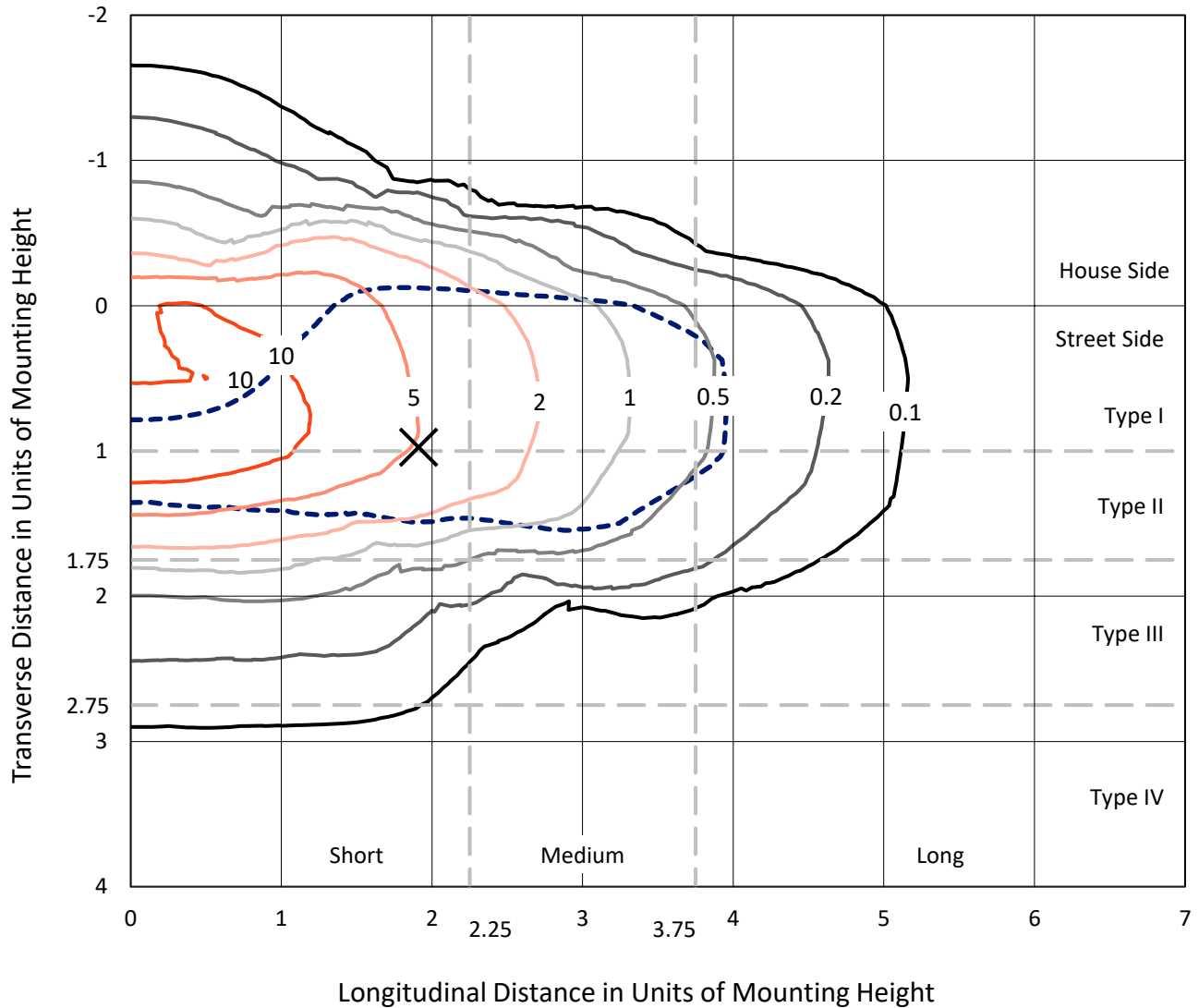
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

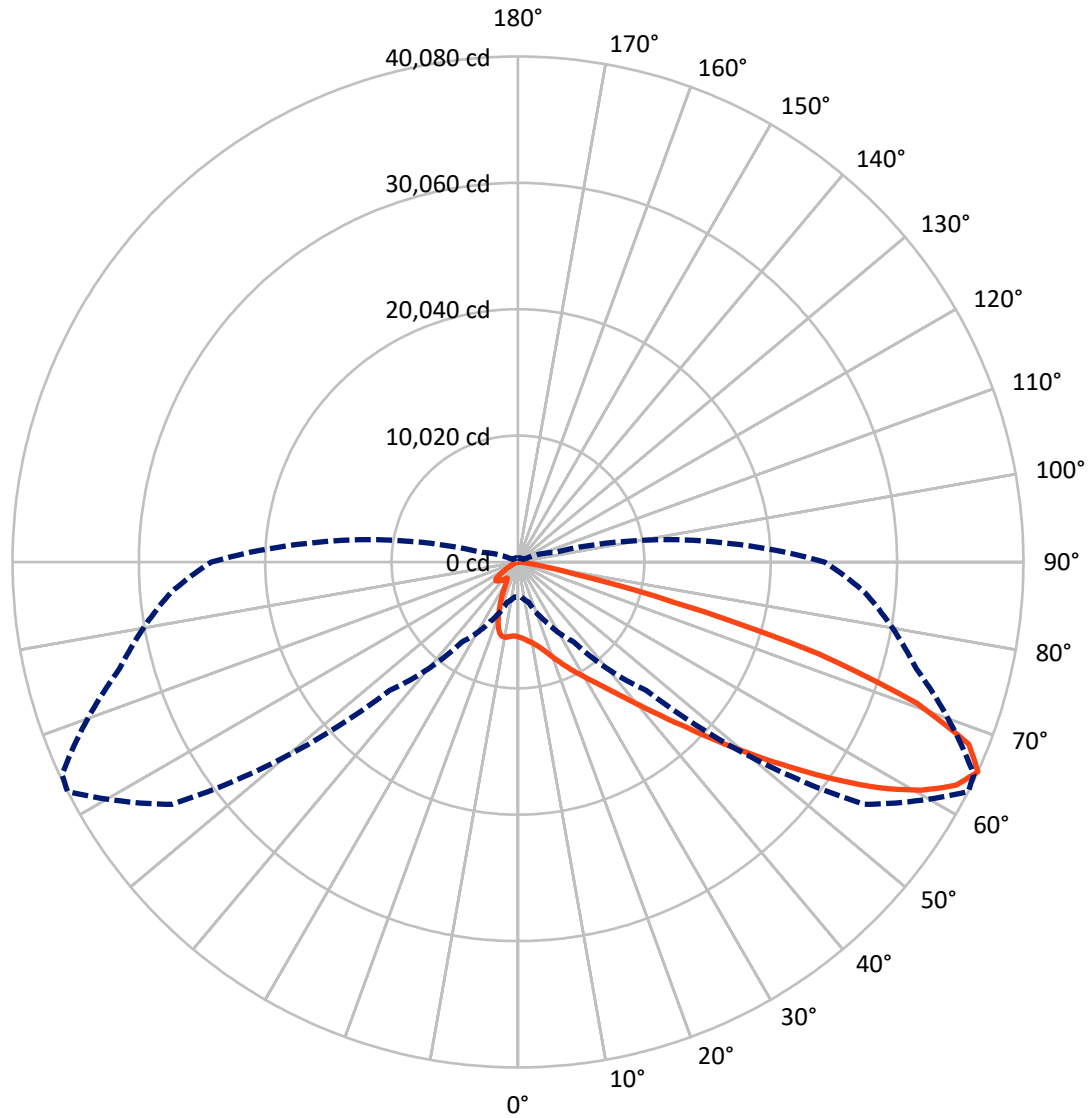
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 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	7069.3	0.0	7069.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	41023.7	0.0	41023.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	48093.0	0.0	48093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.2	1.2
10°-20°	1551.7	3.2
20°-30°	2701.9	5.6
30°-40°	4869.9	10.1
40°-50°	9658.5	20.1
50°-60°	13156.5	27.4
60°-70°	10501.5	21.8
70°-80°	4752.1	9.9
80°-90°	341.6	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°	48093.0	100.0
0°-180°	48093.0	100.0

Coefficient of Utilization



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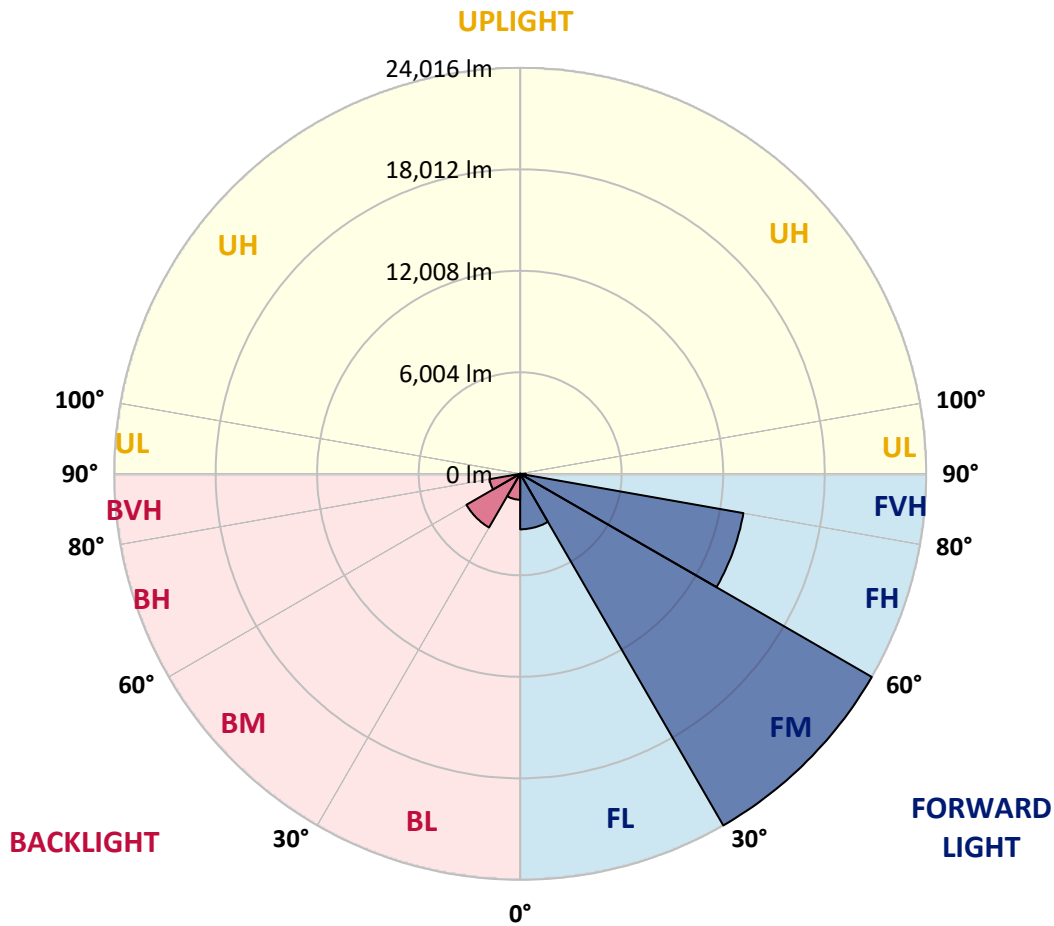
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3282.9	6.8			
FM (30°-60°)	24016.4	49.9			
FH (60°-80°)	13408.1	27.9			G5
FVH (80°-90°)	316.2	0.7			G3/500
BL (0°-30°)	1529.9	3.2	B3/2500		
BM (30°-60°)	3668.5	7.6	B3/5000		
BH (60°-80°)	1845.5	3.8	B3/2500		G3/2500
BVH (80°-90°)	25.3	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°	5935.6	5935.6	5935.6	5935.6	5935.6	5935.6	5935.6	5935.6	5935.6	5935.6
2.5°	6074.5	6058.0	6081.2	6071.2	6064.6	6051.4	6044.8	6038.2	6024.9	6015.0
5°	6091.1	6081.2	6104.3	6124.2	6144.0	6163.9	6173.8	6187.0	6173.8	6147.3
7.5°	5952.1	5945.5	5995.1	6054.7	6144.0	6220.1	6302.8	6349.2	6352.5	6342.5
10°	5942.2	5925.7	5975.3	6048.1	6163.9	6299.5	6445.1	6544.4	6557.6	6600.6
12.5°	6097.7	6081.2	6150.6	6230.0	6349.2	6491.4	6670.1	6809.0	6828.9	6888.5
15°	6359.1	6335.9	6415.3	6517.9	6670.1	6832.2	7020.8	7146.5	7163.1	7235.9
17.5°	6663.5	6640.3	6733.0	6842.1	7007.6	7229.2	7447.6	7586.6	7606.4	7652.7
20°	7053.9	7024.1	7096.9	7196.2	7371.5	7636.2	7897.6	8096.1	8092.8	8092.8
22.5°	7507.2	7460.8	7523.7	7603.1	7768.5	8089.5	8436.9	8671.8	8671.8	8579.1
25°	7993.5	7947.2	8016.7	8089.5	8235.0	8599.0	9005.9	9297.1	9310.3	9151.5
27.5°	8602.3	8542.7	8595.7	8681.7	8767.7	9138.3	9621.3	9958.8	9965.4	9720.6
30°	9773.5	9604.8	9439.4	9346.7	9386.4	9753.7	10269.8	10643.7	10676.8	10339.3
32.5°	11917.5	11884.4	11302.1	10541.1	10144.1	10415.4	10994.4	11444.4	11464.2	11030.8
35°	15249.2	15209.5	14273.2	12824.0	11530.4	11302.1	11874.5	12407.2	12393.9	11904.3
37.5°	19226.1	19189.7	17955.6	16016.8	13922.5	12642.1	13009.3	13568.5	13651.2	13009.3
40°	22624.0	22488.4	21707.6	19838.2	17098.7	14865.4	14623.9	14994.5	15080.5	14319.5
42.5°	25198.1	25082.3	24685.3	23517.4	20943.3	18154.2	16526.3	16668.6	16764.6	15851.4
45°	26531.5	26505.0	26663.8	26554.6	24860.6	22190.6	19246.0	18653.8	18690.1	17548.7
47.5°	26720.1	26706.8	27431.4	28457.1	28228.8	26743.2	22736.5	21128.6	20999.5	19464.4
50°	25608.4	25581.9	26971.5	28893.8	30478.6	30567.9	26700.2	23917.7	23633.2	21446.2
52.5°	22058.3	22051.7	24334.6	27534.0	31269.3	33916.2	30617.6	26981.4	26505.0	23543.8
55°	16973.0	17095.4	19712.5	23494.2	29826.8	35527.5	34134.6	30382.7	29651.5	25654.7
57.5°	12023.4	12202.0	14789.3	18157.5	25353.6	34574.6	36513.4	33790.5	33003.0	27759.0
60°	6458.3	6617.2	9207.8	13227.7	18862.2	31021.2	37767.4	36748.4	36003.9	29757.3
62.5°	3847.9	3900.8	4972.8	8539.4	12757.9	23699.3	37234.7	39001.5	38389.4	31434.8
65°	2762.7	2772.6	3311.9	5214.3	7745.4	14398.9	33499.3	40080.1	39891.5	32698.7
67.5°	2325.9	2319.3	2544.3	3464.1	5277.2	7212.7	25674.5	38554.8	39355.5	33499.3
70°	1995.1	2005.0	2269.7	2537.7	3967.0	4082.8	12764.5	33568.8	35276.0	33711.1
72.5°	1485.6	1518.6	1763.5	2312.7	2994.3	2809.0	4407.0	24890.4	27977.3	31762.3
75°	1048.8	1065.4	1240.7	1945.4	2233.3	2044.7	2249.8	12867.1	16824.1	24351.1
77.5°	807.3	837.1	939.6	1359.8	2200.2	1435.9	1376.4	4453.3	6842.1	14709.9
80°	436.7	489.7	678.3	982.6	1545.1	1015.7	681.6	1773.4	2319.3	6878.5
82.5°	225.0	251.5	473.1	708.0	880.1	886.7	337.5	737.8	956.2	2124.1
85°	89.3	109.2	317.6	390.4	453.3	436.7	152.2	297.8	344.1	588.9
87.5°	19.9	33.1	115.8	89.3	86.0	92.6	36.4	69.5	66.2	69.5
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°
5935.6	0°	5935.6	5935.6	5935.6	5935.6	5935.6	5935.6	5935.6	5935.6	5935.6	5935.6
5975.3	2.5°	5972.0	5958.7	5922.4	5882.6	5836.3	5809.9	5793.3	5790.0	5766.8	5750.3
6107.6	5°	6071.2	6058.0	5988.5	5905.8	5816.5	5747.0	5680.8	5621.3	5535.2	5518.7
6299.5	7.5°	6269.8	6233.4	6120.9	6008.4	5839.6	5637.8	5393.0	5111.7	4860.3	4784.2
6554.3	10°	6514.6	6465.0	6322.7	6124.2	5750.3	5201.1	4608.8	4059.6	3622.9	3500.5
6855.4	12.5°	6792.5	6749.5	6560.9	6193.7	5376.4	4380.6	3474.0	2792.4	2368.9	2263.1
7176.3	15°	7123.4	7060.5	6799.1	6087.8	4708.1	3328.4	2385.5	1981.8	1829.6	1809.8
7543.6	17.5°	7474.1	7371.5	7010.9	5707.3	3808.2	2365.6	1842.9	1727.1	1660.9	1641.1
7914.1	20°	7795.0	7662.7	7136.6	5131.6	2845.4	1842.9	1651.0	1574.9	1515.3	1492.2
8284.7	22.5°	8115.9	7927.3	7136.6	4347.5	2134.0	1634.4	1515.3	1445.8	1376.4	1346.6
8681.7	25°	8450.1	8198.7	7010.9	3474.0	1717.2	1498.8	1386.3	1310.2	1250.6	1214.2
9058.9	27.5°	8774.3	8426.9	6723.0	2646.9	1528.6	1379.7	1267.2	1194.4	1138.2	1111.7
9469.1	30°	9082.0	8651.9	6319.4	2008.3	1406.1	1263.9	1158.0	1095.1	1038.9	1012.4
10001.8	32.5°	9498.9	8936.5	5889.3	1647.7	1300.3	1154.7	1058.7	999.2	949.6	929.7
10693.3	35°	10077.9	9356.7	5518.7	1617.9	1210.9	1065.4	969.4	913.2	863.5	847.0
11586.6	37.5°	10898.4	10034.9	5323.5	1816.4	1138.2	986.0	896.6	837.1	790.7	777.5
12721.5	40°	11910.9	10954.7	5429.4	2014.9	1088.5	916.5	830.5	770.9	731.2	714.7
14025.1	42.5°	13111.9	12089.5	6015.0	2167.1	1055.4	856.9	767.6	701.4	674.9	668.3
15504.0	45°	14491.6	13336.9	6911.6	2329.2	1002.5	800.7	704.7	655.1	635.2	631.9
17112.0	47.5°	16059.8	14706.6	7950.5	2531.1	949.6	747.7	655.1	622.0	605.5	598.9
18789.4	50°	17614.9	16086.3	9019.2	2643.6	906.5	698.1	615.4	588.9	575.7	572.4
20562.8	52.5°	19242.7	17505.7	9882.7	2537.7	870.2	658.4	582.3	562.5	549.2	545.9
22197.2	55°	20794.4	18653.8	10031.6	2153.9	797.4	618.7	545.9	536.0	519.4	519.4
23854.8	57.5°	22131.1	19229.4	8979.5	1581.5	724.6	559.1	509.5	499.6	486.4	483.1
25350.3	60°	23358.5	19064.0	6931.5	1065.4	645.2	499.6	463.2	456.6	443.3	426.8
26650.6	62.5°	24050.0	18336.1	4741.2	694.8	565.8	436.7	410.3	407.0	377.2	344.1
27613.4	65°	24311.4	16840.7	2957.9	506.2	473.1	373.9	354.0	347.4	304.4	268.0
28159.3	67.5°	24083.1	14379.1	1492.2	400.3	373.9	311.0	291.2	291.2	261.4	228.3
28126.2	70°	23170.0	10779.3	628.6	320.9	287.8	238.2	238.2	251.5	221.7	185.3
26667.1	72.5°	21188.1	7252.4	334.2	244.8	215.1	168.7	195.2	205.1	175.4	139.0
21826.7	75°	16844.0	4423.6	231.6	182.0	135.7	119.1	148.9	155.5	119.1	92.6
14964.7	77.5°	11520.5	2541.0	155.5	115.8	86.0	69.5	102.6	95.9	62.9	43.0
5770.2	80°	5058.8	1058.7	89.3	52.9	33.1	26.5	36.4	26.5	19.9	13.2
790.7	82.5°	592.2	248.1	33.1	19.9	13.2	6.6	3.3	0.0	0.0	0.0
241.5	85°	122.4	29.8	16.5	6.6	3.3	0.0	0.0	0.0	0.0	0.0
43.0	87.5°	23.2	6.6	3.3	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>
5935.6
5766.8
5512.1
4747.8
3454.2
2233.3
1789.9
1631.1
1478.9
1330.0
1201.0
1111.7
1015.7
929.7
847.0
774.2
711.3
668.3
628.6
598.9
572.4
545.9
516.1
479.7
423.5
337.5
264.7
225.0
182.0
139.0
89.3
46.3
13.2
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