

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: P943376

Luminaire Tested: **GALN-SB7D-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943376
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-SB7D-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 900mA 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: 49354 lumens
Efficiency: N/A
Efficacy: 96.2 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

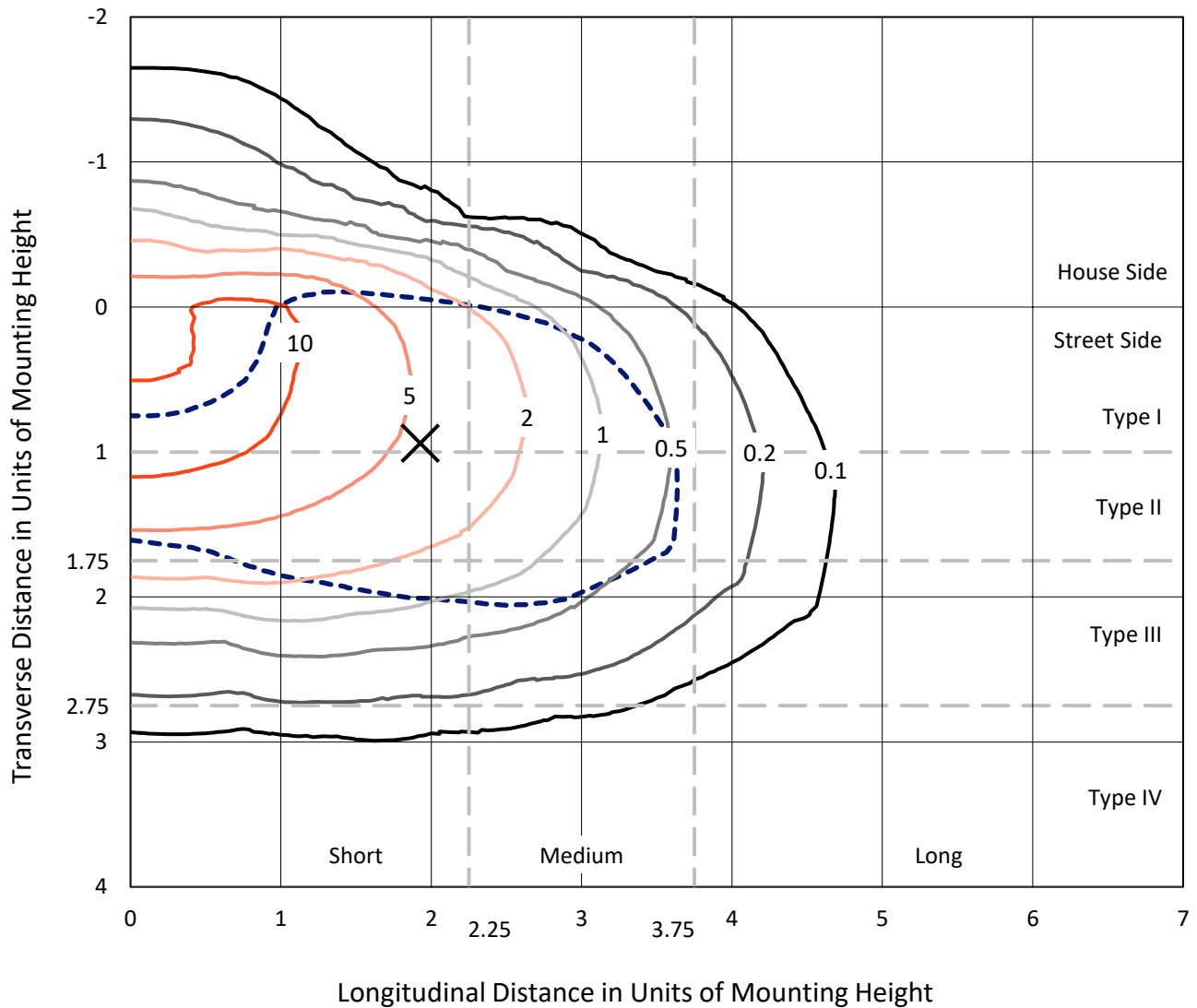
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943376
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Iso-Footcandle Lines of Horizontal Illumination

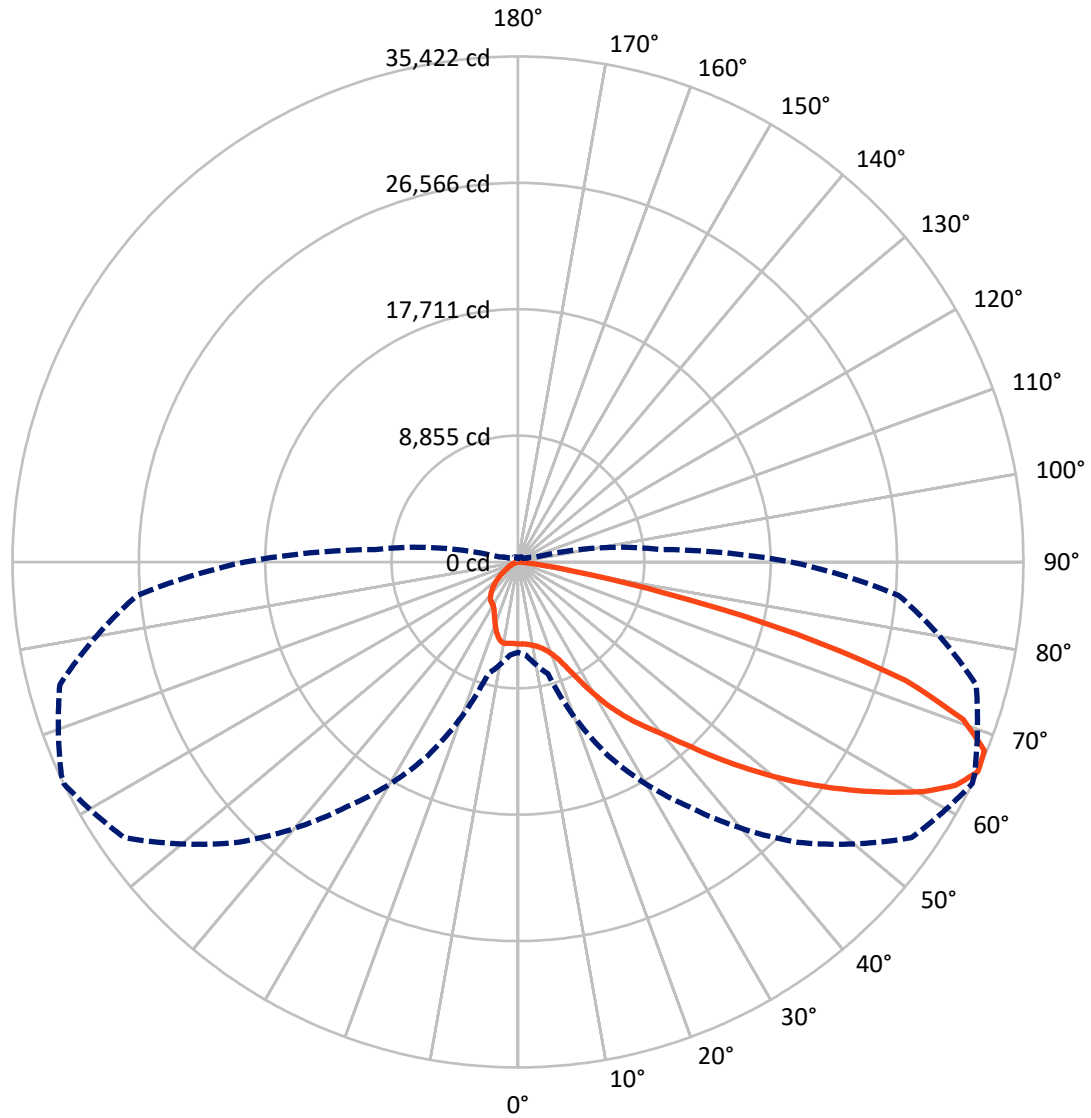
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type III - Short - N/A

REPORT NUMBER: P943376
CATALOG NUMBER: GALN-SB7D-827-U-T3-HSS

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	6600.1	0.0	6600.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	42753.9	0.0	42753.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	49354.0	0.0	49354.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.6	1.1
10°-20°	1436.4	2.9
20°-30°	2721.9	5.5
30°-40°	5507.9	11.2
40°-50°	9382.8	19.0
50°-60°	12759.9	25.9
60°-70°	11982.2	24.3
70°-80°	4800.6	9.7
80°-90°	232.6	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°	49354.0	100.0
0°-180°	49354.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943376

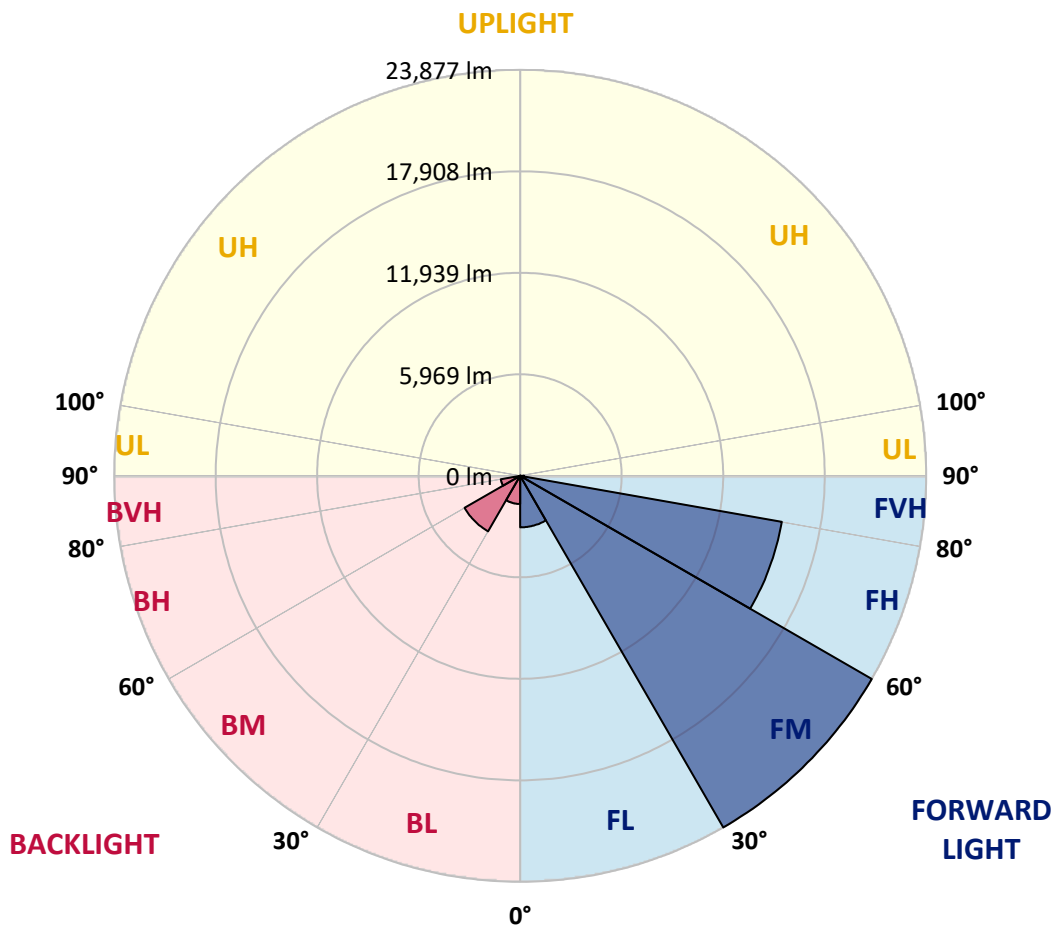
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3030.9	6.1			
FM (30°-60°)	23877.4	48.4			
FH (60°-80°)	15624.4	31.7			G5
FVH (80°-90°)	221.2	0.4			G2/225
BL (0°-30°)	1657.1	3.4	B3/2500		
BM (30°-60°)	3773.2	7.6	B3/5000		
BH (60°-80°)	1158.4	2.3	B3/2500		G3/2500
BVH (80°-90°)	11.4	0.0			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 III Short



REPORT NUMBER: P943376
 CATALOG NUMBER: GALN-SB7D-827-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	5740.4	5740.4	5740.4	5740.4	5740.4	5740.4	5740.4	5740.4	5740.4	5740.4
2.5°	5720.5	5760.2	5750.3	5740.4	5737.1	5743.7	5747.0	5743.7	5743.7	5743.7
5°	5611.3	5644.4	5644.4	5667.6	5700.7	5740.4	5770.2	5776.8	5783.4	5793.3
7.5°	5402.9	5429.4	5449.2	5525.3	5608.0	5713.9	5803.2	5849.6	5856.2	5892.6
10°	5260.6	5293.7	5326.8	5406.2	5525.3	5684.1	5836.3	5948.8	5965.4	6051.4
12.5°	5254.0	5287.1	5330.1	5416.1	5555.1	5723.8	5909.1	6071.2	6101.0	6226.7
15°	5323.5	5363.2	5402.9	5508.8	5657.7	5862.8	6061.3	6263.1	6292.9	6471.6
17.5°	5465.8	5518.7	5548.5	5654.4	5813.2	6041.5	6302.8	6534.4	6560.9	6769.4
20°	5747.0	5809.9	5819.8	5905.8	6061.3	6306.1	6617.2	6905.0	6938.1	7176.3
22.5°	6329.3	6418.6	6339.2	6382.2	6521.2	6766.0	7103.5	7467.5	7513.8	7785.1
25°	7355.0	7480.7	7275.6	7202.8	7262.3	7517.1	7940.6	8400.5	8453.4	8671.8
27.5°	9369.9	9207.8	8896.8	8592.4	8413.7	8559.3	9035.7	9604.8	9671.0	9882.7
30°	11583.3	11441.1	11020.9	10345.9	9922.4	9899.3	10339.3	10974.6	11050.7	11252.5
32.5°	13800.1	13664.4	13207.8	12377.4	11642.9	11278.9	11583.3	12288.1	12327.8	12456.8
35°	15980.4	15841.5	15384.9	14534.6	13631.3	12804.2	12744.6	13538.7	13551.9	13687.6
37.5°	18174.0	18058.2	17571.9	16738.1	15848.1	14706.6	14154.1	14723.2	14739.7	14872.1
40°	19739.0	19788.6	19454.4	18809.3	18045.0	16797.7	15735.6	15983.7	15884.5	16106.2
42.5°	21082.3	21181.5	20890.4	20566.1	20122.8	19024.3	17694.3	17651.3	17492.5	17611.6
45°	22243.6	22326.3	22064.9	21988.8	21978.9	21208.0	19834.9	19576.9	19355.2	19332.0
47.5°	22670.4	22829.2	22941.7	23196.4	23692.7	23368.5	22048.4	21648.0	21399.9	21217.9
50°	22832.5	23001.2	23385.0	24126.2	25300.7	25439.7	24251.9	23801.9	23497.5	23166.7
52.5°	22614.1	22915.2	23431.3	24678.7	26382.6	27100.6	26366.1	25972.3	25624.9	25085.6
55°	21327.1	21628.2	22683.6	24672.1	26921.9	28265.2	28364.4	28189.1	27798.7	26948.4
57.5°	18614.1	19060.7	20731.5	23831.7	26912.0	29267.7	30323.1	30448.8	30012.1	28794.6
60°	14855.5	15461.0	17499.1	21969.0	26081.5	29810.3	32040.3	32668.9	32205.7	30614.3
62.5°	10365.8	11067.2	12996.1	19050.8	24182.4	29419.9	33294.2	34455.5	34104.8	32242.1
65°	6322.7	6547.7	8102.7	14991.2	20953.2	27785.4	33681.3	35421.6	35305.8	33238.0
67.5°	4211.8	4400.4	4847.1	10279.8	16265.0	24519.9	32754.9	35252.9	35286.0	33075.9
70°	2537.7	2699.8	2991.0	5978.6	10541.1	19408.1	29886.4	33102.3	33294.2	30908.7
72.5°	1045.5	1154.7	1419.4	2709.7	5459.2	12317.8	23798.6	28420.7	28867.3	25988.9
75°	592.2	648.5	833.8	1359.8	2368.9	5740.4	14415.5	20175.7	20834.1	17912.6
77.5°	393.7	420.2	539.3	880.1	1333.4	1958.7	6160.6	10511.4	11768.6	9783.5
80°	264.7	287.8	370.6	588.9	866.8	840.4	1962.0	3894.2	4790.8	3361.5
82.5°	178.7	182.0	264.7	387.1	549.2	407.0	579.0	1210.9	1521.9	972.7
85°	102.6	99.3	195.2	225.0	244.8	168.7	175.4	363.9	476.4	410.3
87.5°	13.2	19.9	76.1	59.6	33.1	36.4	36.4	62.9	92.6	99.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943376
 CATALOG NUMBER: GALN-SB7D-827-U-T3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5740.4	0°	5740.4	5740.4	5740.4	5740.4	5740.4	5740.4	5740.4	5740.4	5740.4	5740.4
5747.0	2.5°	5747.0	5743.7	5733.8	5723.8	5700.7	5687.4	5694.1	5687.4	5684.1	5687.4
5790.0	5°	5790.0	5780.1	5753.6	5720.5	5674.2	5618.0	5581.6	5528.6	5479.0	5449.2
5905.8	7.5°	5905.8	5895.9	5859.5	5766.9	5618.0	5383.1	5168.0	4979.4	4837.1	4754.4
6091.1	10°	6091.1	6074.5	6018.3	5813.2	5422.8	4909.9	4483.1	4129.1	3897.5	3788.3
6309.5	12.5°	6309.5	6289.6	6190.3	5770.2	5052.2	4251.5	3662.6	3268.9	3053.8	2957.9
6560.9	15°	6567.5	6541.1	6345.9	5565.0	4512.9	3523.6	2984.3	2689.9	2550.9	2464.9
6881.8	17.5°	6888.5	6842.1	6461.7	5257.3	3927.3	2967.8	2567.5	2345.8	2223.4	2140.6
7302.0	20°	7305.3	7229.2	6554.3	4890.1	3388.0	2617.1	2286.2	2100.9	2008.3	1935.5
7897.6	22.5°	7887.6	7778.5	6666.8	4493.0	3007.5	2375.6	2077.8	1942.1	1866.0	1783.3
8728.0	25°	8608.9	8479.9	6805.7	4125.8	2746.1	2167.1	1925.6	1813.1	1723.8	1627.8
9816.6	27.5°	9618.0	9386.4	6971.2	3824.7	2521.1	1988.5	1786.6	1660.9	1558.3	1478.9
11050.7	30°	10743.0	10362.5	7116.8	3642.7	2316.0	1823.0	1604.7	1478.9	1383.0	1326.7
12159.0	32.5°	11808.3	11292.2	7212.7	3563.3	2130.7	1634.4	1406.1	1270.5	1197.7	1181.2
13244.2	35°	12814.1	12132.6	7202.8	3487.2	1965.3	1445.8	1210.9	1072.0	1015.7	1025.7
14412.2	37.5°	13972.1	13029.2	7133.3	3368.1	1829.6	1273.8	1042.2	919.8	870.2	873.5
15831.5	40°	15318.7	14064.8	7090.3	3143.1	1680.8	1115.0	903.2	804.0	767.6	754.4
17327.0	42.5°	16754.6	15067.3	7096.9	2888.4	1495.5	972.7	807.3	724.6	691.5	681.6
18991.2	45°	18197.2	16023.4	7106.8	2623.7	1300.3	863.5	737.8	668.3	648.5	635.2
20678.6	47.5°	19553.7	16837.4	6921.5	2339.2	1108.4	780.8	681.6	635.2	618.7	602.2
22372.6	50°	20817.6	17380.0	6474.9	2008.3	956.2	714.7	638.6	605.5	588.9	572.4
23907.8	52.5°	21800.2	17466.0	5737.1	1667.5	850.3	665.0	612.1	582.3	562.5	545.9
25148.5	55°	22237.0	16926.7	4688.3	1349.9	767.6	622.0	585.6	555.8	532.7	516.1
26124.5	57.5°	22124.5	15791.8	3656.0	1085.2	688.2	579.0	552.5	532.7	506.2	479.7
26915.3	60°	21571.9	14273.2	2756.0	903.2	615.4	532.7	516.1	499.6	463.2	423.5
27219.7	62.5°	20615.7	12364.2	1965.3	747.7	536.0	479.7	473.1	459.9	407.0	334.2
26769.7	65°	19153.4	10044.8	1323.4	622.0	459.9	420.2	423.5	400.3	330.9	248.1
25122.0	67.5°	17016.0	7345.0	847.0	509.5	383.8	350.7	354.0	340.8	281.2	211.7
21998.7	70°	14293.1	4863.6	552.5	387.1	307.7	271.3	291.2	294.5	238.2	172.0
16883.7	72.5°	10478.3	2871.8	387.1	287.8	225.0	188.6	238.2	244.8	191.9	129.0
10157.3	75°	5972.0	1363.1	291.2	208.4	139.0	132.3	185.3	185.3	132.3	86.0
4397.1	77.5°	2507.9	569.1	205.1	135.7	79.4	76.1	125.7	115.8	66.2	39.7
1072.0	80°	724.6	254.8	109.2	66.2	33.1	29.8	49.6	36.4	16.5	6.6
407.0	82.5°	284.5	112.5	43.0	26.5	13.2	13.2	6.6	0.0	0.0	0.0
231.6	85°	168.7	46.3	19.9	9.9	3.3	0.0	0.0	0.0	0.0	0.0
49.6	87.5°	43.0	9.9	6.6	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>
5740.4
5700.7
5455.8
4757.7
3778.4
2947.9
2468.2
2134.0
1922.3
1770.1
1617.9
1462.4
1316.8
1191.1
1025.7
886.7
751.0
678.3
635.2
602.2
572.4
542.6
512.8
476.4
416.9
327.5
241.5
201.8
165.4
122.4
79.4
39.7
6.6
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