

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: P940684

Luminaire Tested: **GALN-SB3D-840-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21326 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

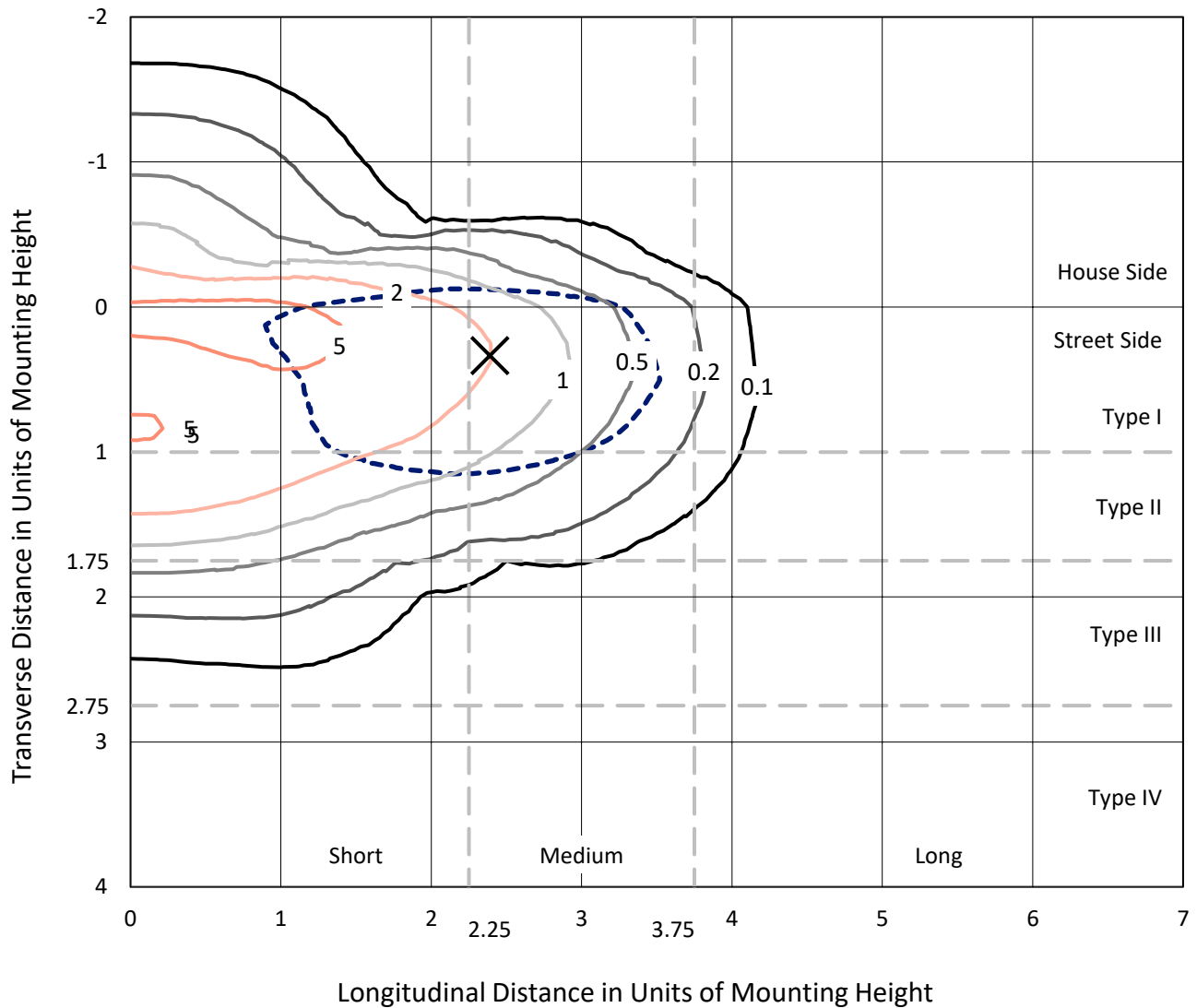
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P940684
 CATALOG NUMBER: GALN-SB3D-840-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

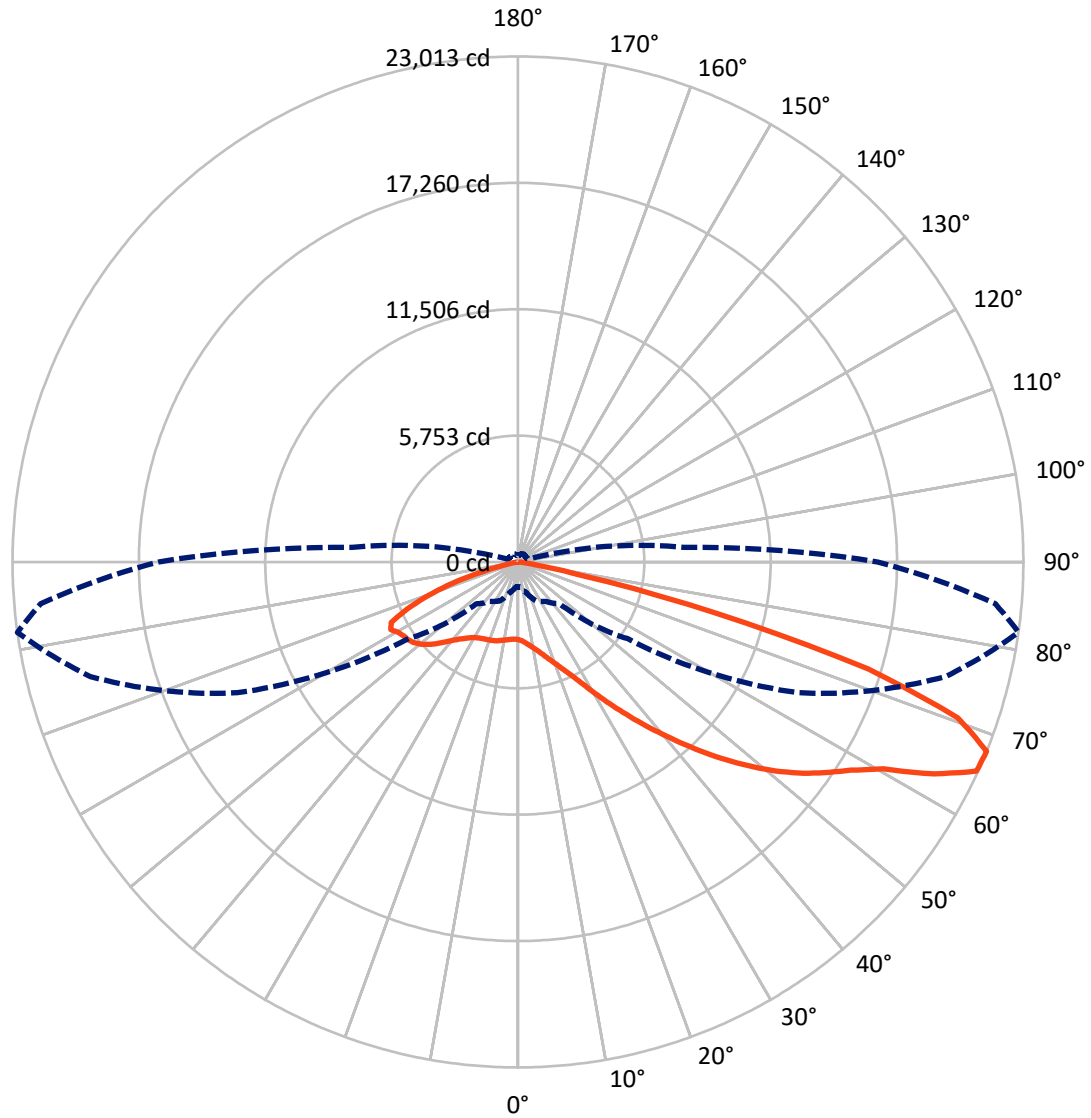
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P940684
CATALOG NUMBER: GALN-SB3D-840-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P940684

CATALOG NUMBER: GALN-SB3D-840-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3863.0	0.0	3863.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17463.0	0.0	17463.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	21326.0	0.0	21326.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.8	1.5
10°-20°	817.9	3.8
20°-30°	1310.1	6.1
30°-40°	2316.6	10.9
40°-50°	4059.0	19.0
50°-60°	5413.5	25.4
60°-70°	5039.7	23.6
70°-80°	1934.2	9.1
80°-90°	120.1	0.6
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°	21326.0	100.0
0°-180°	21326.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940684

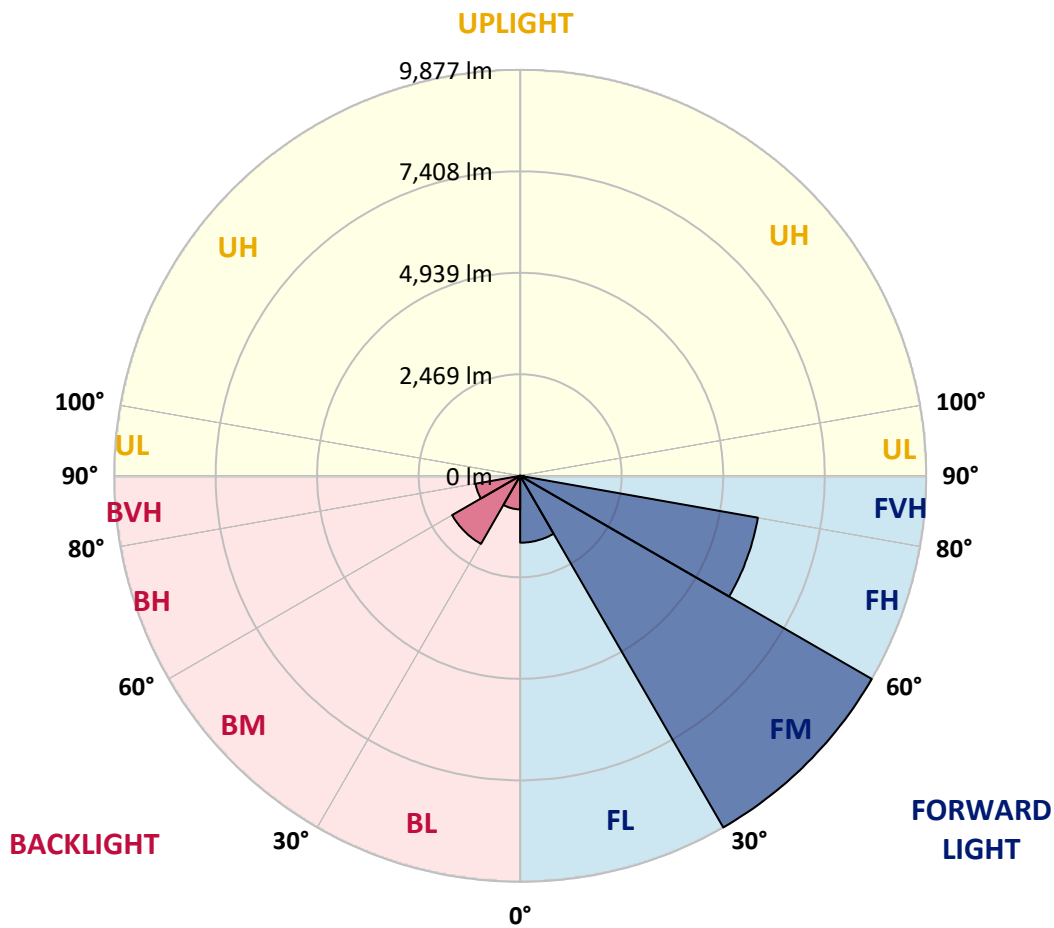
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1626.9	7.6			
FM (30°-60°)	9877.3	46.3			
FH (60°-80°)	5871.4	27.5			G3/7500
FVH (80°-90°)	87.3	0.4			G1/100
BL (0°-30°)	815.9	3.8	B2/1000		
BM (30°-60°)	1911.8	9.0	B2/2500		
BH (60°-80°)	1102.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	32.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



REPORT NUMBER: P940684

CATALOG NUMBER: GALN-SB3D-840-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3533.0	3533.0	3533.0	3533.0	3533.0	3533.0	3533.0	3533.0	3533.0	3533.0
2.5°	3734.1	3755.6	3743.3	3737.2	3726.5	3711.1	3698.8	3660.4	3620.5	3594.4
5°	3809.4	3830.9	3829.3	3835.5	3843.2	3847.8	3844.7	3801.7	3744.9	3700.4
7.5°	3744.9	3769.5	3789.4	3820.1	3873.9	3930.7	3958.3	3949.1	3890.7	3829.3
10°	3562.2	3588.3	3635.9	3708.0	3821.7	3944.5	4047.4	4095.0	4058.1	3990.6
12.5°	3227.4	3253.6	3347.2	3503.8	3694.2	3907.6	4104.2	4231.6	4240.8	4173.3
15°	2851.3	2877.4	2977.2	3173.7	3463.9	3806.3	4134.9	4375.9	4457.3	4399.0
17.5°	2617.9	2640.9	2716.2	2874.3	3176.8	3603.6	4124.1	4529.5	4715.3	4669.2
20°	2547.3	2567.2	2602.5	2713.1	2964.9	3393.3	4053.5	4673.8	4993.2	4967.1
22.5°	2622.5	2640.9	2651.7	2700.8	2858.9	3255.1	3964.4	4821.2	5315.6	5318.7
25°	2796.0	2814.4	2802.1	2832.8	2901.9	3212.1	3930.7	4994.7	5721.0	5754.7
27.5°	3081.6	3083.1	3053.9	3052.4	3063.2	3276.6	3966.0	5180.5	6232.3	6295.2
30°	3654.3	3631.3	3519.2	3397.9	3342.6	3470.0	4064.3	5400.1	6835.7	6947.8
32.5°	4537.2	4503.4	4297.6	4007.4	3715.7	3781.7	4240.8	5650.3	7492.8	7695.5
35°	5495.3	5486.0	5271.1	4839.6	4329.9	4225.5	4527.9	5978.9	8209.9	8532.3
37.5°	6385.8	6381.2	6258.4	5750.1	5129.8	4844.2	4988.6	6408.8	8977.6	9444.4
40°	7199.6	7213.4	7090.6	6636.1	6011.2	5638.1	5615.0	6940.1	9831.3	10437.8
42.5°	7902.8	7918.1	7793.8	7457.5	6881.7	6516.3	6384.3	7591.1	10665.0	11504.9
45°	8380.3	8475.5	8457.1	8188.4	7775.4	7396.1	7308.6	8407.9	11615.4	12636.5
47.5°	8515.4	8602.9	8741.1	8778.0	8526.2	8153.1	8257.5	9392.2	12576.6	13769.6
50°	8182.2	8263.6	8550.7	8933.1	9108.1	8992.9	9180.3	10447.0	13560.8	14899.7
52.5°	7525.1	7608.0	7970.4	8575.3	9289.3	9651.6	10106.1	11486.5	14514.3	15969.9
55°	6574.7	6662.2	7127.4	7812.2	8943.8	9923.4	10878.4	12524.4	15388.0	16932.6
57.5°	5281.8	5346.3	5830.0	6788.1	8074.8	9653.2	11448.1	13657.5	16210.9	17878.4
60°	3442.4	3499.2	4061.2	5129.8	6634.5	8750.3	11561.7	14921.2	17304.2	19108.3
62.5°	2289.3	2327.7	2660.9	3445.5	4672.3	7016.9	10896.9	15930.0	18907.1	21248.6
65°	1570.7	1609.1	1942.3	2488.9	3018.6	4641.6	8985.3	15796.4	20359.6	22948.4
67.5°	1120.9	1153.1	1435.6	1951.5	2184.9	2696.2	6091.0	14089.0	20150.8	23012.8
70°	803.0	821.4	1054.8	1520.1	1736.6	1619.9	3387.1	10775.6	17643.5	21250.2
72.5°	562.0	568.1	732.4	1157.7	1398.8	1182.3	1612.2	7184.2	13344.3	16679.2
75°	380.8	388.5	492.9	849.1	1122.4	902.8	853.7	3852.4	7833.7	9232.5
77.5°	233.4	236.5	317.8	580.4	839.9	687.9	549.7	1632.1	3030.9	2975.6
80°	132.0	132.0	202.7	360.8	572.7	443.7	385.4	694.0	959.6	842.9
82.5°	73.7	75.2	147.4	224.2	379.2	262.6	211.9	320.9	414.6	367.0
85°	30.7	33.8	90.6	105.9	181.2	130.5	86.0	135.1	153.5	136.7
87.5°	3.1	4.6	27.6	20.0	21.5	26.1	12.3	26.1	21.5	21.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940684
 CATALOG NUMBER: GALN-SB3D-840-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3533.0	0°	3533.0	3533.0	3533.0	3533.0	3533.0	3533.0	3533.0	3533.0	3533.0	3533.0
3585.2	2.5°	3556.0	3533.0	3474.7	3407.1	3318.0	3275.0	3216.7	3176.8	3143.0	3146.1
3674.3	5°	3625.1	3566.8	3436.3	3273.5	3070.8	2926.5	2773.0	2667.0	2581.0	2562.6
3797.1	7.5°	3720.3	3628.2	3399.4	3106.2	2763.8	2504.3	2272.4	2123.5	2017.5	1983.8
3946.0	10°	3843.2	3709.6	3351.8	2895.8	2402.9	2072.8	1824.1	1707.4	1635.2	1610.7
4121.1	12.5°	3985.9	3803.2	3288.9	2639.4	2031.4	1713.5	1555.4	1497.0	1474.0	1466.3
4336.0	15°	4165.6	3919.9	3193.7	2335.4	1716.6	1494.0	1426.4	1418.7	1421.8	1418.7
4594.0	17.5°	4379.0	4047.4	3038.6	2022.1	1504.7	1381.9	1357.3	1363.5	1371.1	1369.6
4882.6	20°	4612.4	4173.3	2840.5	1744.2	1360.4	1302.0	1288.2	1294.4	1300.5	1297.4
5215.8	22.5°	4878.0	4308.4	2621.0	1527.7	1263.6	1228.3	1213.0	1214.5	1214.5	1208.4
5638.1	25°	5195.9	4457.3	2390.6	1374.2	1189.9	1162.3	1143.9	1137.7	1128.5	1110.1
6150.9	27.5°	5575.1	4615.5	2169.5	1266.7	1131.6	1105.5	1084.0	1068.7	1045.6	1014.9
6766.6	30°	6001.9	4807.4	1982.2	1199.2	1085.5	1059.4	1034.9	1011.8	978.1	939.7
7474.4	32.5°	6504.0	5013.1	1845.6	1154.6	1044.1	1016.4	987.3	959.6	922.8	884.4
8269.8	35°	7102.8	5261.9	1765.7	1123.9	1011.8	975.0	942.7	912.0	884.4	850.6
9134.2	37.5°	7752.3	5526.0	1741.2	1108.6	990.3	933.5	896.7	875.2	872.1	852.2
10069.3	40°	8463.2	5839.2	1759.6	1099.4	967.3	893.6	853.7	849.1	856.8	821.4
11068.8	42.5°	9215.6	6210.8	1790.3	1088.6	935.1	853.7	815.3	815.3	809.2	760.0
12125.2	45°	10029.3	6639.1	1821.0	1062.5	896.7	813.8	784.6	773.9	747.7	700.2
13187.7	47.5°	10849.3	7075.2	1844.0	1014.9	850.6	780.0	753.9	729.3	690.9	647.9
14230.3	50°	11627.7	7466.7	1819.5	944.3	798.4	747.7	720.1	686.3	644.9	615.7
15217.5	52.5°	12323.3	7806.1	1715.1	861.4	743.1	714.0	689.4	654.1	620.3	589.6
16108.1	55°	12928.2	8080.9	1530.8	783.1	694.0	684.8	660.2	615.7	569.6	543.5
16990.9	57.5°	13508.6	8289.7	1300.5	718.6	649.5	652.6	615.7	575.8	532.8	505.2
18180.9	60°	14280.9	8569.2	1067.1	658.7	601.9	611.1	571.2	542.0	488.3	452.9
20221.5	62.5°	15515.4	9003.7	847.6	585.0	546.6	549.7	532.8	497.5	433.0	391.5
21733.8	65°	16495.0	8844.0	667.9	505.2	483.7	488.3	488.3	449.9	380.8	333.2
21815.2	67.5°	16384.4	7572.7	532.8	426.8	423.8	426.8	437.6	405.4	337.8	299.4
20153.9	70°	15093.2	6023.4	426.8	354.7	368.5	360.8	391.5	370.0	304.0	265.6
15624.4	72.5°	12315.6	4339.1	325.5	293.3	282.5	294.8	353.1	333.2	253.3	210.4
8275.9	75°	7196.5	2315.4	242.6	231.8	204.2	245.7	313.2	284.1	193.5	155.1
2536.5	77.5°	2343.0	807.6	178.1	170.4	152.0	198.1	267.2	239.5	158.1	122.8
743.1	80°	628.0	244.1	121.3	112.1	98.3	147.4	211.9	190.4	113.6	79.8
319.4	82.5°	251.8	102.9	70.6	63.0	53.7	101.3	167.4	153.5	84.4	50.7
99.8	85°	81.4	33.8	26.1	20.0	24.6	63.0	99.8	104.4	59.9	26.1
15.4	87.5°	10.7	4.6	4.6	6.1	4.6	10.7	30.7	29.2	16.9	3.1
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>
3533.0
3115.4
2521.2
1950.0
1592.2
1461.7
1417.2
1366.5
1295.9
1205.3
1107.0
1011.8
936.6
885.9
847.6
850.6
823.0
760.0
698.6
646.4
611.1
586.5
540.5
502.1
448.3
388.5
328.6
293.3
261.0
205.7
150.5
118.2
78.3
50.7
20.0
0.0
0.0

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