

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: P942864

Luminaire Tested: **GALN-SB7A-827-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942864  
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-SB7A-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

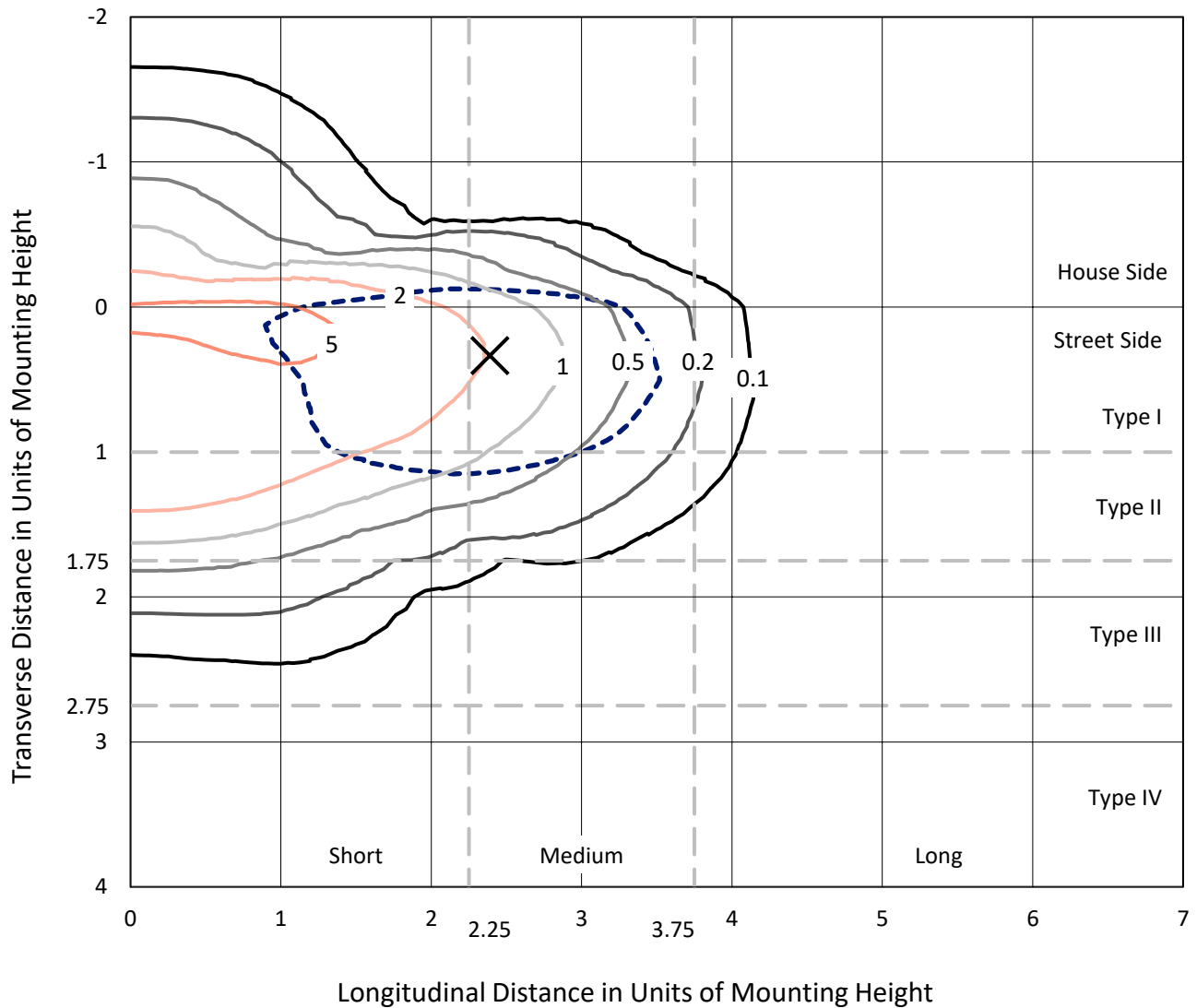
Lumens per Lamp: N/A  
Luminaire Lumens: 20257 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

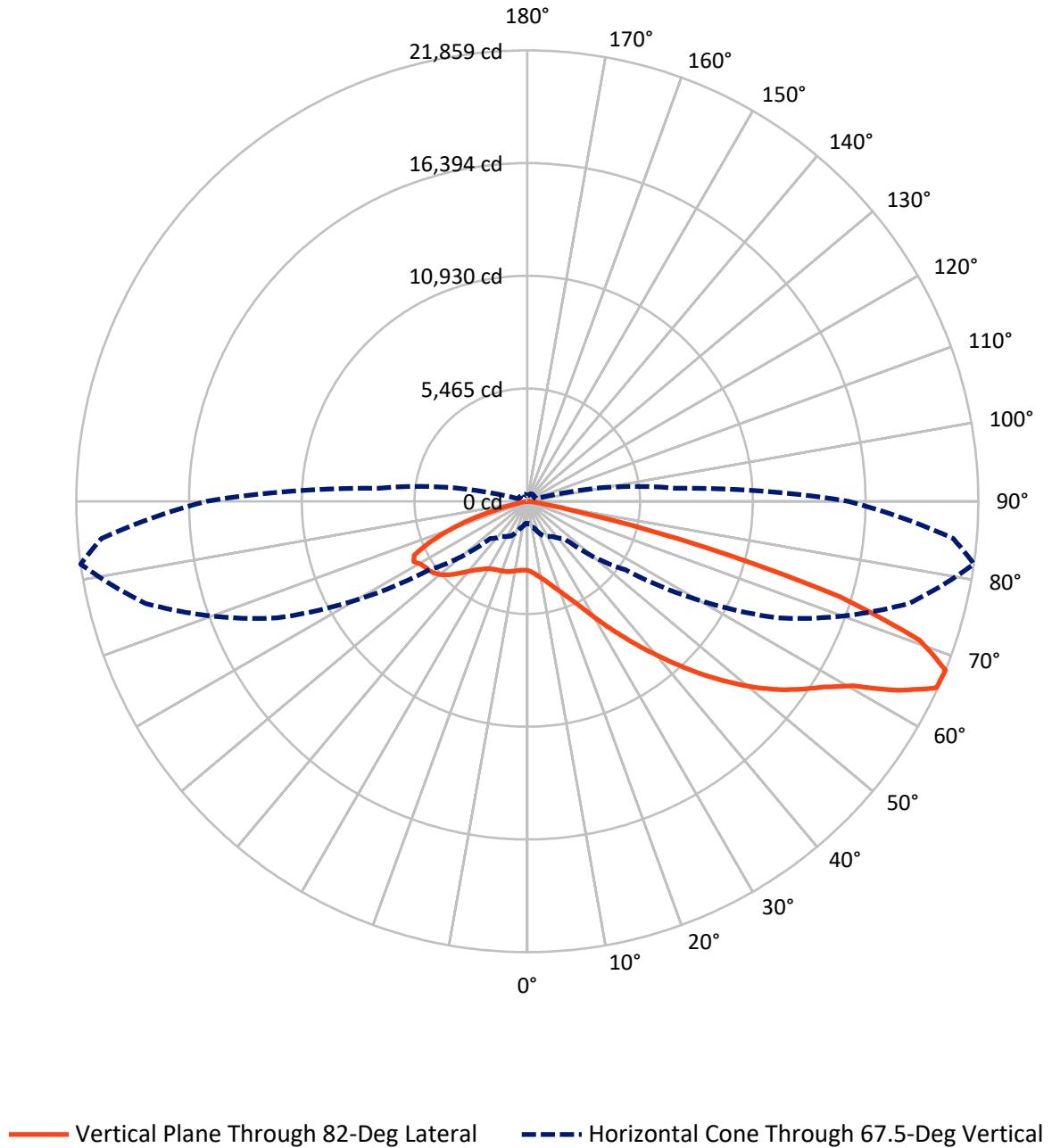
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Medium - N/A

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CATALOG NUMBER: GALN-SB7A-827-U-T2-HSS

### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3669.4	0.0	3669.4
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	16587.6	0.0	16587.6
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	20257.0	0.0	20257.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.0	1.5
10°-20°	776.9	3.8
20°-30°	1244.4	6.1
30°-40°	2200.5	10.9
40°-50°	3855.5	19.0
50°-60°	5142.2	25.4
60°-70°	4787.1	23.6
70°-80°	1837.3	9.1
80°-90°	114.1	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°	20257.0	100.0
0°-180°	20257.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P942864

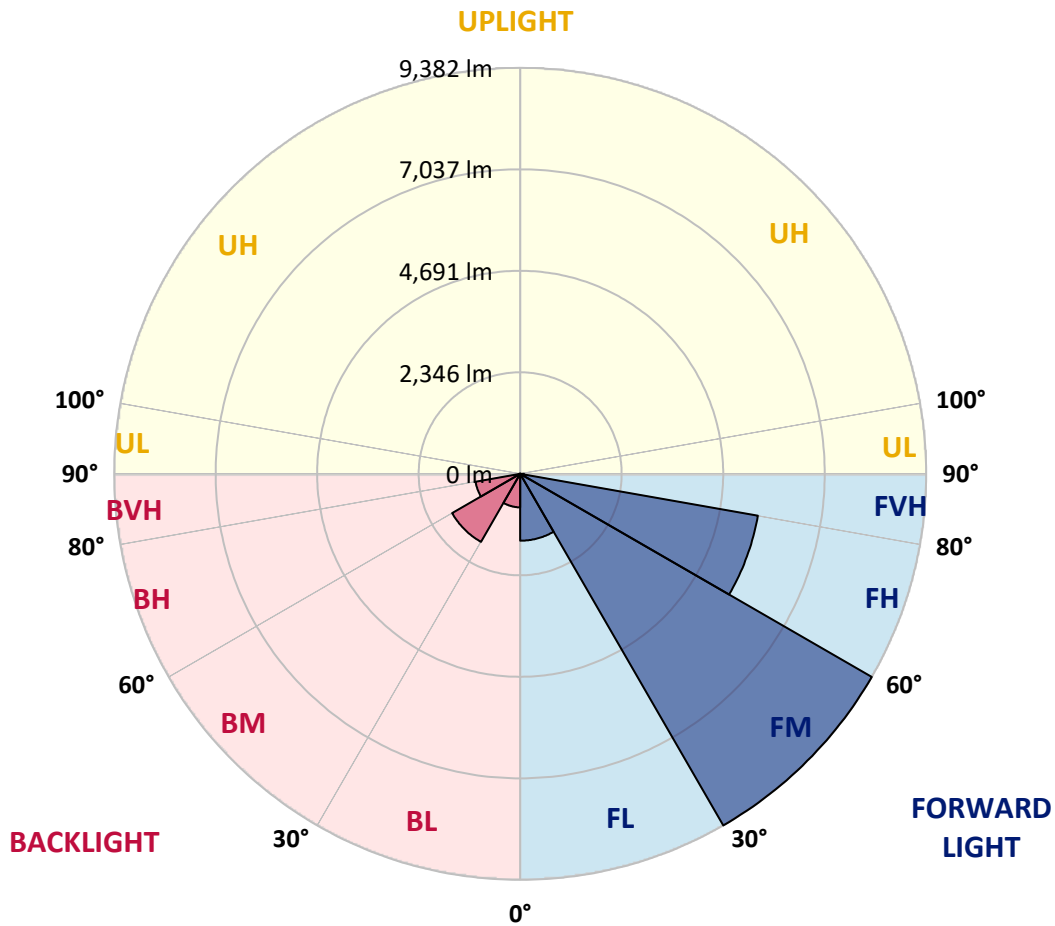
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1545.4	7.6			
FM (30°-60°)	9382.2	46.3			
FH (60°-80°)	5577.1	27.5			G3/7500
FVH (80°-90°)	83.0	0.4			G1/100
BL (0°-30°)	775.0	3.8	B2/1000		
BM (30°-60°)	1816.0	9.0	B2/2500		
BH (60°-80°)	1047.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	31.1	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3355.9	3355.9	3355.9	3355.9	3355.9	3355.9	3355.9	3355.9	3355.9	3355.9
2.5°	3547.0	3567.4	3555.7	3549.9	3539.7	3525.1	3513.4	3477.0	3439.0	3414.2
5°	3618.4	3638.8	3637.4	3643.2	3650.5	3654.9	3652.0	3611.1	3557.2	3514.9
7.5°	3557.2	3580.5	3599.5	3628.6	3679.7	3733.6	3759.9	3751.1	3695.7	3637.4
10°	3383.6	3408.4	3453.6	3522.2	3630.1	3746.8	3844.5	3889.7	3854.7	3790.5
12.5°	3065.7	3090.5	3179.4	3328.2	3509.0	3711.8	3898.4	4019.5	4028.2	3964.1
15°	2708.3	2733.1	2827.9	3014.6	3290.3	3615.5	3927.6	4156.6	4233.9	4178.5
17.5°	2486.7	2508.5	2580.0	2730.2	3017.5	3423.0	3917.4	4302.4	4478.9	4435.2
20°	2419.6	2438.5	2472.1	2577.1	2816.3	3223.2	3850.3	4439.5	4742.9	4718.1
22.5°	2491.0	2508.5	2518.7	2565.4	2715.6	3091.9	3765.7	4579.5	5049.2	5052.1
25°	2655.8	2673.3	2661.7	2690.8	2756.5	3051.1	3733.6	4744.3	5434.2	5466.3
27.5°	2927.1	2928.6	2900.9	2899.4	2909.6	3112.3	3767.2	4920.8	5919.9	5979.7
30°	3471.1	3449.2	3342.8	3227.6	3175.1	3296.1	3860.5	5129.4	6493.0	6599.5
32.5°	4309.7	4277.6	4082.2	3806.6	3529.5	3592.2	4028.2	5367.1	7117.2	7309.8
35°	5219.8	5211.1	5006.9	4597.0	4112.8	4013.7	4301.0	5679.2	7798.3	8104.6
37.5°	6065.7	6061.3	5944.7	5461.9	4872.7	4601.4	4738.5	6087.6	8527.6	8970.9
40°	6838.7	6851.8	6735.1	6303.4	5709.8	5355.4	5333.6	6592.2	9338.5	9914.6
42.5°	7506.7	7521.2	7403.1	7083.7	6536.8	6189.7	6064.2	7210.6	10130.4	10928.2
45°	7960.2	8050.7	8033.2	7777.9	7385.6	7025.4	6942.2	7986.5	11033.2	12003.1
47.5°	8088.6	8171.7	8303.0	8338.0	8098.8	7744.4	7843.6	8921.4	11946.2	13079.4
50°	7772.1	7849.4	8122.1	8485.3	8651.5	8542.2	8720.1	9923.3	12881.1	14152.8
52.5°	7147.9	7226.6	7570.8	8145.5	8823.6	9167.8	9599.5	10910.7	13786.8	15169.4
55°	6245.1	6328.2	6770.1	7420.6	8495.5	9426.0	10333.1	11896.6	14616.6	16083.8
57.5°	5017.1	5078.3	5537.7	6447.8	7670.0	9169.3	10874.2	12972.9	15398.3	16982.2
60°	3269.9	3323.8	3857.6	4872.7	6302.0	8311.7	10982.1	14173.2	16436.8	18150.4
62.5°	2174.6	2211.0	2527.5	3272.8	4438.1	6665.1	10350.6	15131.4	17959.4	20183.5
65°	1492.0	1528.5	1844.9	2364.2	2867.3	4408.9	8534.9	15004.6	19339.1	21798.0
67.5°	1064.7	1095.3	1363.7	1853.7	2075.4	2561.0	5785.7	13382.8	19140.7	21859.3
70°	762.8	780.3	1002.0	1443.9	1649.5	1538.7	3217.3	10235.4	16759.1	20185.0
72.5°	533.8	539.6	695.7	1099.7	1328.7	1123.0	1531.4	6824.1	12675.4	15843.2
75°	361.7	369.0	468.2	806.5	1066.1	857.6	810.9	3659.3	7441.0	8769.7
77.5°	221.7	224.6	301.9	551.3	797.8	653.4	522.1	1550.3	2879.0	2826.5
80°	125.4	125.4	192.5	342.7	544.0	421.5	366.1	659.2	911.5	800.7
82.5°	70.0	71.5	140.0	212.9	360.2	249.4	201.3	304.8	393.8	348.6
85°	29.2	32.1	86.0	100.6	172.1	124.0	81.7	128.3	145.8	129.8
87.5°	2.9	4.4	26.3	19.0	20.4	24.8	11.7	24.8	20.4	20.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942864  
 CATALOG NUMBER: GALN-SB7A-827-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3355.9	0°	3355.9	3355.9	3355.9	3355.9	3355.9	3355.9	3355.9	3355.9	3355.9	3355.9
3405.5	2.5°	3377.8	3355.9	3300.5	3236.3	3151.7	3110.9	3055.5	3017.5	2985.5	2988.4
3490.1	5°	3443.4	3388.0	3264.0	3109.4	2916.9	2779.8	2634.0	2533.3	2451.7	2434.2
3606.8	7.5°	3533.8	3446.3	3229.0	2950.4	2625.2	2378.7	2158.5	2017.0	1916.4	1884.3
3748.2	10°	3650.5	3523.6	3183.8	2750.6	2282.5	1968.9	1732.6	1621.8	1553.3	1529.9
3914.5	12.5°	3786.1	3612.6	3124.0	2507.1	1929.5	1627.6	1477.4	1422.0	1400.1	1392.8
4118.7	15°	3956.8	3723.4	3033.6	2218.3	1630.5	1419.1	1354.9	1347.6	1350.5	1347.6
4363.7	17.5°	4159.5	3844.5	2886.3	1920.8	1429.3	1312.6	1289.3	1295.1	1302.4	1300.9
4637.9	20°	4381.2	3964.1	2698.1	1656.8	1292.2	1236.8	1223.6	1229.5	1235.3	1232.4
4954.4	22.5°	4633.5	4092.4	2489.6	1451.2	1200.3	1166.8	1152.2	1153.6	1153.6	1147.8
5355.4	25°	4935.4	4233.9	2270.8	1305.3	1130.3	1104.0	1086.5	1080.7	1072.0	1054.5
5842.6	27.5°	5295.6	4384.1	2060.8	1203.2	1074.9	1050.1	1029.7	1015.1	993.2	964.0
6427.4	30°	5701.1	4566.4	1882.9	1139.1	1031.1	1006.3	983.0	961.1	929.0	892.6
7099.7	32.5°	6178.0	4761.8	1753.1	1096.8	991.7	965.5	937.8	911.5	876.5	840.1
7855.2	35°	6746.8	4998.1	1677.2	1067.6	961.1	926.1	895.5	866.3	840.1	808.0
8676.3	37.5°	7363.7	5249.0	1653.9	1053.0	940.7	886.7	851.7	831.3	828.4	809.4
9564.5	40°	8039.0	5546.5	1671.4	1044.3	918.8	848.8	810.9	806.5	813.8	780.3
10514.0	42.5°	8753.6	5899.4	1700.6	1034.0	888.2	810.9	774.4	774.4	768.6	721.9
11517.4	45°	9526.6	6306.3	1729.7	1009.2	851.7	773.0	745.3	735.1	710.3	665.1
12526.6	47.5°	10305.4	6720.5	1751.6	964.0	808.0	740.9	716.1	692.8	656.3	615.5
13516.9	50°	11044.9	7092.5	1728.3	896.9	758.4	710.3	684.0	651.9	612.6	584.8
14454.7	52.5°	11705.5	7414.8	1629.1	818.2	705.9	678.2	654.8	621.3	589.2	560.0
15300.6	55°	12280.2	7675.8	1454.1	743.8	659.2	650.5	627.1	584.8	541.1	516.3
16139.2	57.5°	12831.5	7874.2	1235.3	682.6	616.9	619.8	584.8	546.9	506.1	479.8
17269.5	60°	13565.1	8139.6	1013.6	625.7	571.7	580.5	542.5	514.8	463.8	430.2
19207.8	62.5°	14737.7	8552.4	805.1	555.7	519.2	522.1	506.1	472.5	411.3	371.9
20644.4	65°	15668.2	8400.7	634.4	479.8	459.4	463.8	463.8	427.3	361.7	316.5
20721.7	67.5°	15563.1	7193.1	506.1	405.4	402.5	405.4	415.7	385.0	320.9	284.4
19143.6	70°	14336.6	5721.5	405.4	336.9	350.0	342.7	371.9	351.5	288.8	252.3
14841.2	72.5°	11698.2	4121.6	309.2	278.6	268.4	280.0	335.4	316.5	240.6	199.8
7861.1	75°	6835.8	2199.3	230.4	220.2	194.0	233.4	297.5	269.8	183.8	147.3
2409.4	77.5°	2225.6	767.1	169.2	161.9	144.4	188.1	253.8	227.5	150.2	116.7
705.9	80°	596.5	231.9	115.2	106.5	93.3	140.0	201.3	180.8	107.9	75.8
303.4	82.5°	239.2	97.7	67.1	59.8	51.0	96.3	159.0	145.8	80.2	48.1
94.8	85°	77.3	32.1	24.8	19.0	23.3	59.8	94.8	99.2	56.9	24.8
14.6	87.5°	10.2	4.4	4.4	5.8	4.4	10.2	29.2	27.7	16.0	2.9
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>
3355.9
2959.2
2394.8
1852.2
1512.4
1388.4
1346.2
1298.0
1230.9
1144.9
1051.5
961.1
889.7
841.5
805.1
808.0
781.7
721.9
663.6
614.0
580.5
557.1
513.4
476.9
425.9
369.0
312.1
278.6
247.9
195.4
142.9
112.3
74.4
48.1
19.0
0.0
0.0

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