

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: P944398

Luminaire Tested: **GALN-SB9B-827-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944398  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9B-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

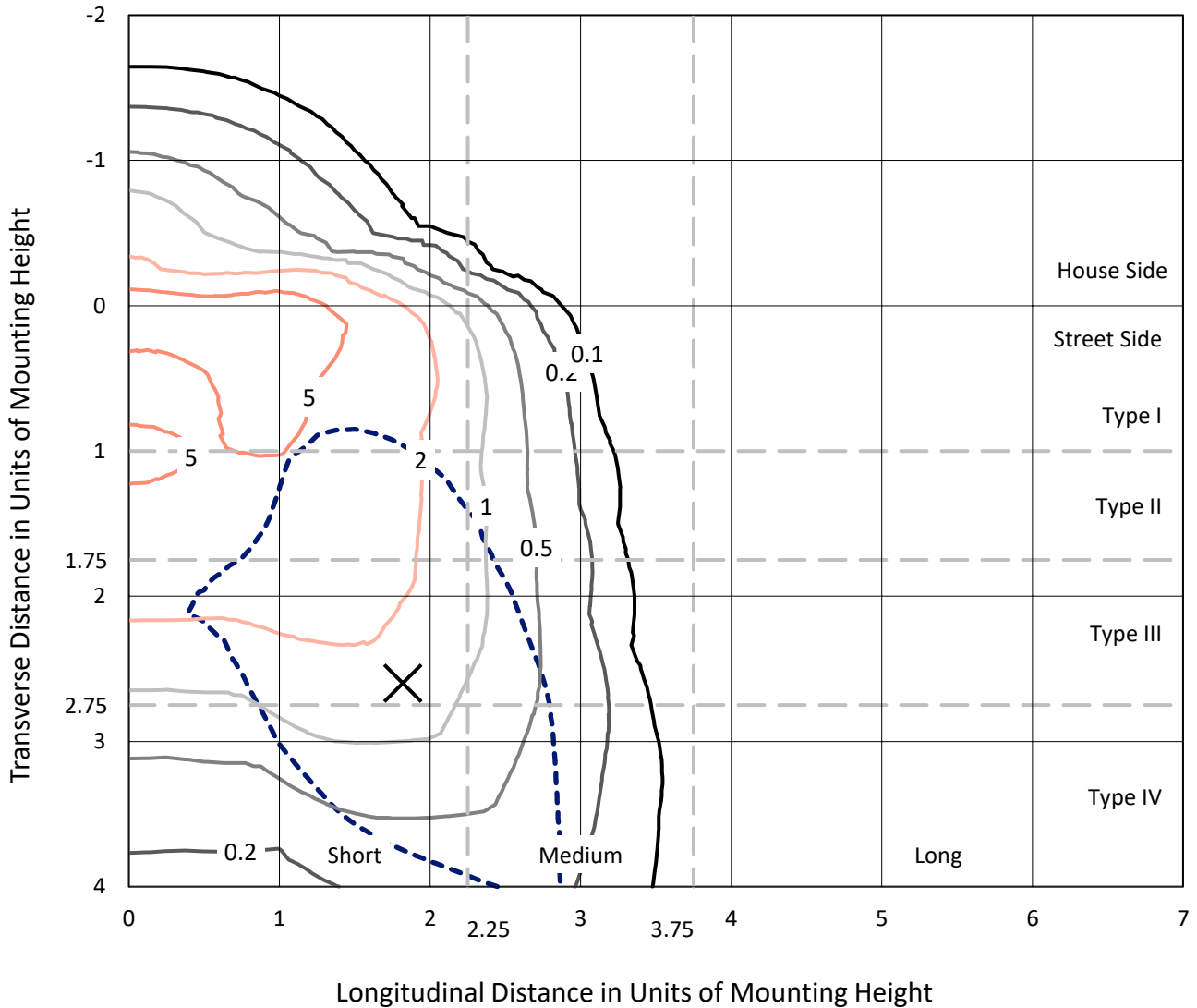
Lumens per Lamp: N/A  
Luminaire Lumens: 33768 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

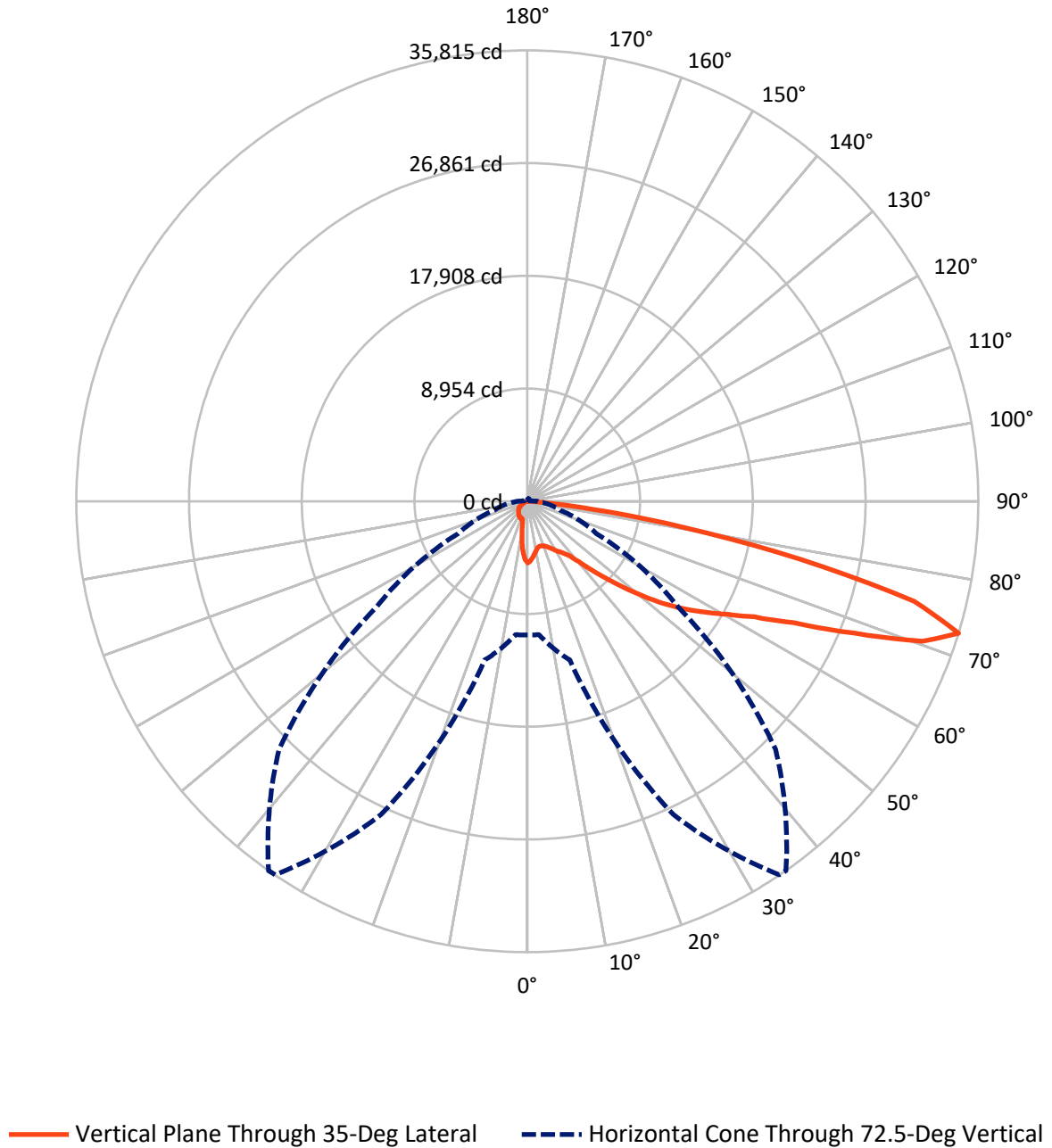
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3800.4	0.0	3800.4
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	29967.6	0.0	29967.6
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	33768.0	0.0	33768.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	402.2	1.2
10°-20°	940.8	2.8
20°-30°	1528.3	4.5
30°-40°	2550.0	7.6
40°-50°	4824.7	14.3
50°-60°	7666.4	22.7
60°-70°	9483.9	28.1
70°-80°	5895.2	17.5
80°-90°	476.4	1.4
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°	33768.0	100.0
0°-180°	33768.0	100.0

**Coefficient of Utilization**



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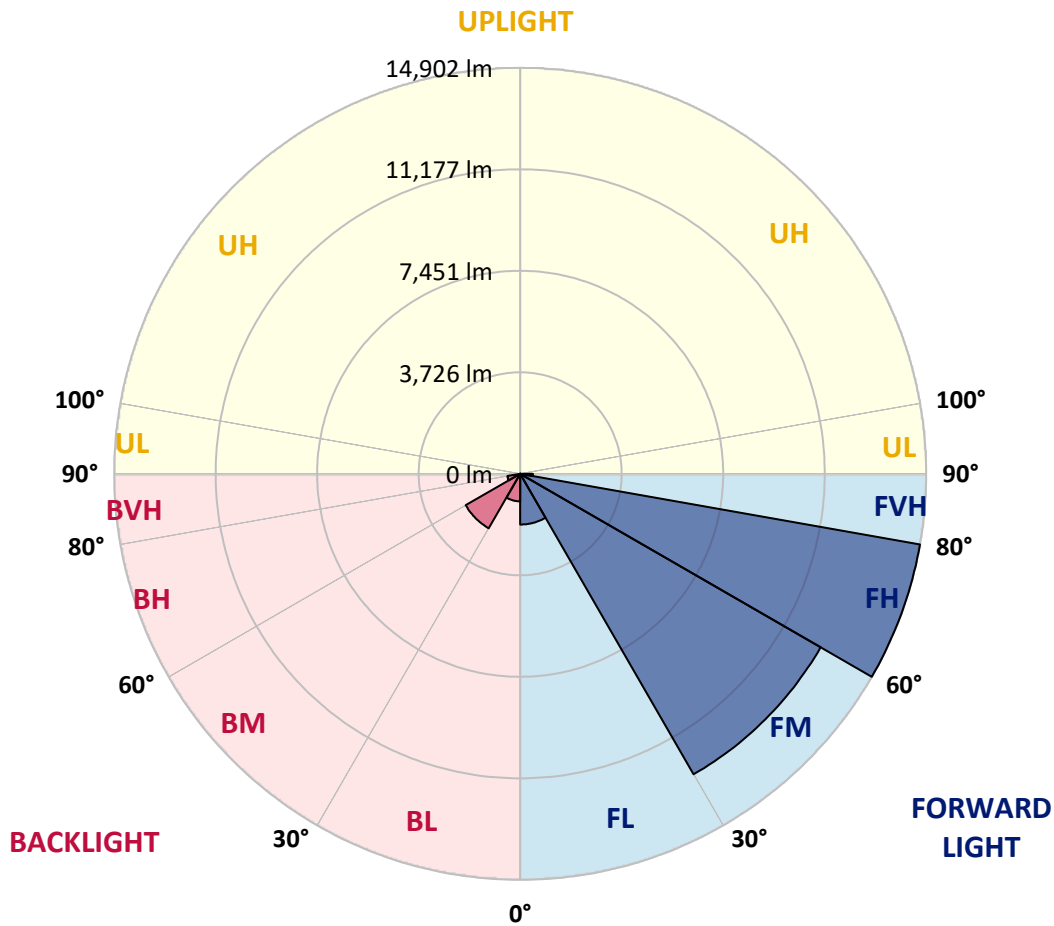
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1861.5	5.5			
FM (30°-60°)	12733.9	37.7			
FH (60°-80°)	14902.2	44.1			G5
FVH (80°-90°)	470.0	1.4			G3/500
BL (0°-30°)	1009.8	3.0	B3/2500		
BM (30°-60°)	2307.2	6.8	B2/2500		
BH (60°-80°)	476.9	1.4	B1/500		G1/500
BVH (80°-90°)	6.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1
2.5°	4676.4	4716.0	4723.4	4735.8	4735.8	4750.6	4775.4	4810.0	4866.9	4896.6
5°	4310.2	4339.9	4377.0	4406.7	4463.6	4471.0	4567.5	4661.5	4792.7	4891.6
7.5°	3941.5	3976.2	4025.6	4097.4	4171.6	4193.9	4339.9	4498.2	4706.1	4891.6
10°	3681.7	3684.2	3728.7	3800.5	3919.3	3946.5	4124.6	4349.8	4609.6	4861.9
12.5°	3535.7	3553.1	3572.9	3627.3	3741.1	3758.4	3948.9	4213.7	4513.1	4844.6
15°	3535.7	3548.1	3560.5	3587.7	3679.2	3694.1	3862.3	4127.1	4463.6	4852.1
17.5°	3572.9	3592.6	3582.7	3614.9	3711.4	3721.3	3869.8	4102.3	4461.1	4899.1
20°	3661.9	3676.8	3657.0	3676.8	3773.3	3793.1	3946.5	4149.4	4503.2	4980.7
22.5°	3803.0	3810.4	3763.4	3778.2	3877.2	3901.9	4080.1	4283.0	4604.6	5111.9
25°	3981.1	3996.0	3924.2	3941.5	4035.5	4065.2	4270.6	4483.4	4765.5	5292.5
27.5°	4186.5	4193.9	4132.0	4129.6	4250.8	4292.9	4500.7	4730.8	4980.7	5520.1
30°	4421.5	4443.8	4384.4	4374.5	4527.9	4562.6	4767.9	5035.1	5297.4	5861.6
32.5°	4607.1	4624.4	4589.8	4614.5	4770.4	4797.6	5092.1	5465.7	5794.8	6346.5
35°	4874.3	4884.2	4805.0	4849.6	5027.7	5097.0	5535.0	6069.4	6420.7	6955.2
37.5°	5841.8	5841.8	5505.3	5285.1	5455.8	5517.6	6141.1	6829.0	7192.7	7771.7
40°	7180.3	7158.1	6665.7	6215.4	6193.1	6314.3	7004.7	7786.5	8189.8	8751.5
42.5°	8608.0	8573.4	7902.8	7457.5	7383.2	7425.3	8001.8	8966.8	9377.5	9946.6
45°	9874.8	9864.9	9251.3	8652.5	8518.9	8652.5	9246.4	10347.4	10641.9	11240.6
47.5°	10936.3	10936.3	10488.5	10097.5	10028.2	10107.4	10931.3	11879.0	11851.8	12618.8
50°	12158.6	12148.7	11723.1	11554.9	11626.6	11738.0	12871.2	13492.2	13103.8	13972.2
52.5°	13014.7	13074.1	12928.1	12900.9	13267.1	13460.1	14840.7	15070.8	14224.6	15256.4
55°	13692.6	13761.9	13930.2	14120.7	14825.9	15078.2	16748.4	16567.7	15162.4	16369.8
57.5°	14652.7	14553.7	14813.5	15189.6	16330.2	16634.5	18596.6	17980.6	15917.0	17272.9
60°	15818.0	15832.9	15877.4	16352.5	17832.1	18223.0	20417.7	19316.7	16402.0	17827.1
62.5°	17218.5	17240.7	17332.3	18062.2	19848.6	20217.3	22357.5	20410.3	16624.7	17671.3
65°	17122.0	17216.0	18237.9	20734.4	22914.3	23278.0	24621.5	21177.3	16288.2	16246.1
67.5°	15597.8	15751.2	17461.0	23926.2	27536.2	27942.0	27358.1	21328.2	14835.8	12633.6
70°	13598.6	13653.0	15709.2	26796.4	32888.1	33298.8	29807.6	19668.0	11257.9	7046.7
72.5°	10619.6	10632.0	13044.4	27462.0	35792.9	35815.1	27885.1	14600.7	6054.6	2706.9
75°	7586.1	7511.9	8736.7	22270.9	31490.1	31742.5	20905.1	6848.8	2313.4	1279.2
77.5°	4067.7	4149.4	4943.6	13207.7	21753.8	22184.3	11406.4	1974.5	1177.8	870.9
80°	1256.9	1326.2	2026.4	6047.1	12321.9	12581.7	4228.5	878.4	821.5	621.0
82.5°	395.9	410.7	945.2	2541.1	5114.3	5233.1	1224.8	497.3	561.7	410.7
85°	113.8	116.3	420.6	947.6	1264.4	1289.1	343.9	193.0	321.7	254.9
87.5°	12.4	39.6	158.4	158.4	111.3	108.9	37.1	42.1	91.5	32.2
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°
4894.1	0°	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1
4916.4	2.5°	4904.0	4906.5	4874.3	4819.9	4760.5	4711.0	4649.2	4599.7	4565.0	4555.1
4960.9	5°	4938.7	4921.3	4829.8	4664.0	4466.1	4295.3	4104.8	3953.9	3854.9	3812.9
5007.9	7.5°	4990.6	4941.1	4740.7	4414.1	4035.5	3699.0	3357.6	3092.8	2924.6	2840.5
5052.5	10°	5035.1	4936.2	4592.3	4052.9	3473.9	2964.2	2504.0	2184.8	2006.6	1922.5
5104.4	12.5°	5077.2	4933.7	4399.3	3624.8	2840.5	2217.0	1788.9	1630.5	1581.1	1563.7
5188.6	15°	5156.4	4941.1	4156.8	3134.9	2209.5	1675.1	1519.2	1516.7	1526.6	1521.7
5317.2	17.5°	5265.3	4948.5	3882.1	2615.3	1704.8	1477.1	1469.7	1492.0	1506.8	1499.4
5478.0	20°	5406.3	4978.2	3590.2	2100.7	1464.8	1427.7	1445.0	1464.8	1477.1	1464.8
5693.3	22.5°	5604.2	5030.2	3271.0	1687.5	1388.1	1398.0	1412.8	1435.1	1447.5	1430.1
5968.0	25°	5846.7	5111.9	2956.8	1467.2	1351.0	1363.3	1385.6	1410.3	1425.2	1407.9
6314.3	27.5°	6160.9	5243.0	2667.3	1417.8	1313.8	1321.3	1353.4	1390.5	1410.3	1388.1
6806.7	30°	6616.2	5458.3	2417.4	1440.0	1291.6	1274.3	1318.8	1370.7	1393.0	1373.2
7477.3	32.5°	7219.9	5762.6	2264.0	1474.7	1281.7	1219.8	1261.9	1328.7	1365.8	1353.4
8353.2	35°	8011.7	6225.3	2204.6	1514.3	1274.3	1162.9	1192.6	1264.4	1328.7	1341.1
9456.7	37.5°	8971.7	6868.6	2221.9	1531.6	1252.0	1115.9	1130.7	1192.6	1276.7	1316.3
10698.8	40°	10062.9	7618.3	2320.9	1514.3	1227.2	1076.3	1078.8	1125.8	1200.0	1259.4
12034.9	42.5°	11188.7	8494.2	2504.0	1449.9	1205.0	1041.7	1034.2	1066.4	1115.9	1158.0
13368.5	45°	12260.0	9394.8	2684.6	1360.9	1177.8	1007.0	989.7	1002.1	1012.0	1029.3
14667.5	47.5°	13195.3	10028.2	2632.6	1279.2	1140.6	967.4	937.8	932.8	903.1	900.6
15827.9	50°	13841.1	10166.8	2338.2	1197.5	1086.2	922.9	875.9	846.2	794.2	769.5
16696.4	52.5°	14046.5	9620.0	1910.1	1115.9	997.1	863.5	796.7	749.7	685.4	663.1
17196.2	55°	13774.3	8548.6	1526.6	1016.9	873.4	784.3	710.1	648.3	596.3	569.1
17250.6	57.5°	13108.7	7185.3	1207.4	900.6	742.3	695.3	621.0	559.2	514.6	487.4
16646.9	60°	12005.2	5705.7	955.1	762.1	633.4	598.8	522.1	482.5	442.9	410.7
15088.1	62.5°	10330.1	4072.7	749.7	603.7	529.5	489.9	445.4	415.7	368.7	324.1
12284.8	65°	8061.2	2491.6	579.0	442.9	425.6	405.8	378.6	351.3	294.4	249.9
8014.2	67.5°	5084.6	1180.2	413.2	334.0	336.5	326.6	314.2	292.0	249.9	210.3
3590.2	70°	2239.2	571.6	272.2	254.9	249.9	249.9	259.8	252.4	212.8	175.7
1247.0	72.5°	762.1	306.8	202.9	193.0	180.6	178.1	217.7	210.3	170.7	136.1
621.0	75°	398.4	205.4	148.5	138.6	108.9	131.1	173.2	163.3	121.2	89.1
410.7	77.5°	259.8	146.0	101.4	89.1	61.9	86.6	128.7	113.8	71.8	44.5
269.7	80°	163.3	96.5	59.4	42.1	29.7	47.0	69.3	49.5	27.2	9.9
158.4	82.5°	86.6	49.5	22.3	14.8	12.4	14.8	17.3	12.4	4.9	0.0
81.7	85°	34.6	17.3	7.4	4.9	2.5	0.0	4.9	2.5	0.0	0.0
14.8	87.5°	12.4	2.5	0.0	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>
4894.1
4572.5
3827.7
2852.8
1925.0
1558.8
1519.2
1496.9
1462.3
1427.7
1405.4
1388.1
1370.7
1353.4
1341.1
1326.2
1279.2
1175.3
1039.2
898.2
772.0
660.6
569.1
482.5
403.3
316.7
242.5
205.4
168.3
128.7
81.7
39.6
7.4
0.0
0.0
0.0
0.0

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