

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: P942358

Luminaire Tested: **GALN-SB6B-827-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942358  
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-SB6B-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

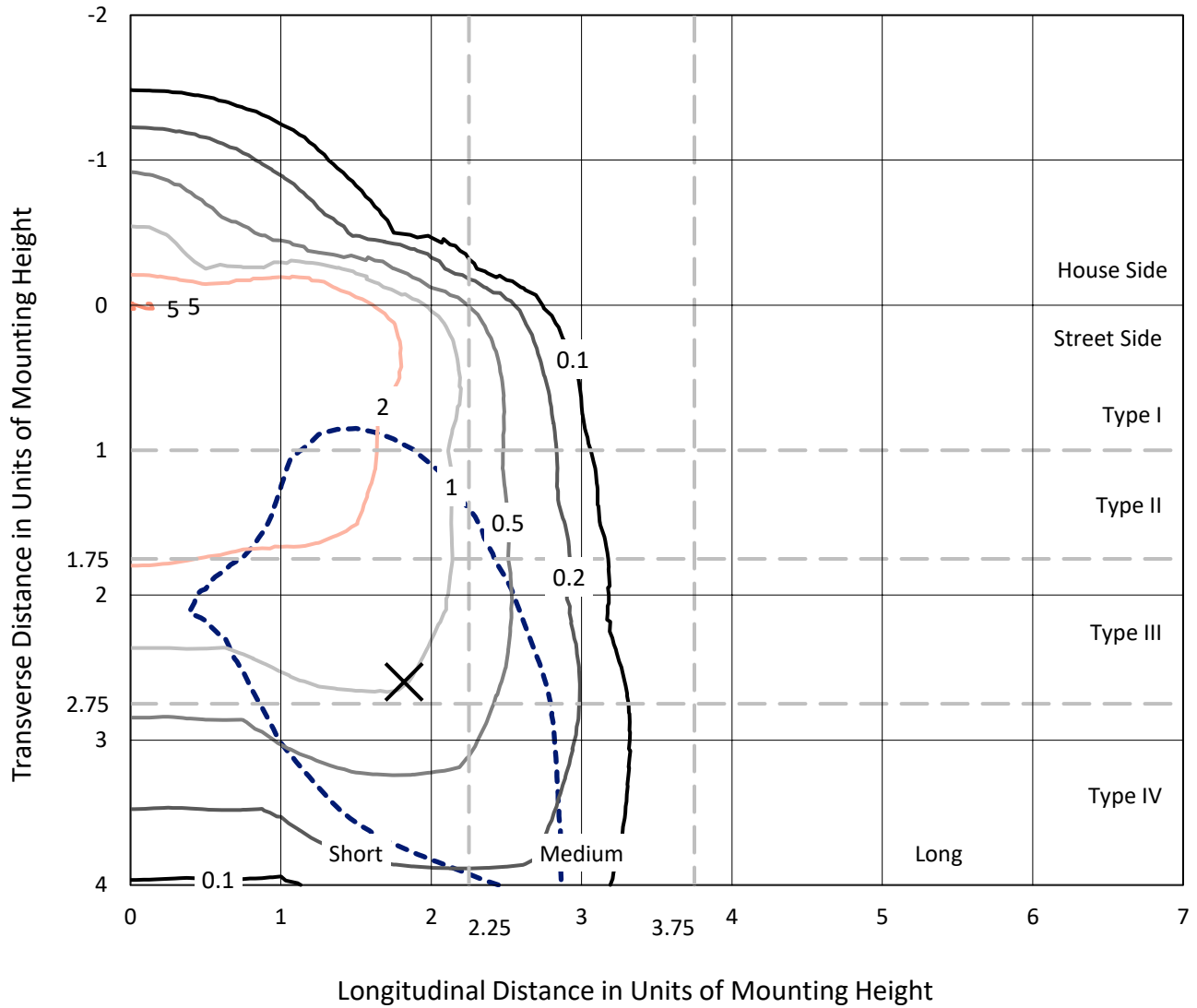
Lumens per Lamp: N/A  
Luminaire Lumens: 22482 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

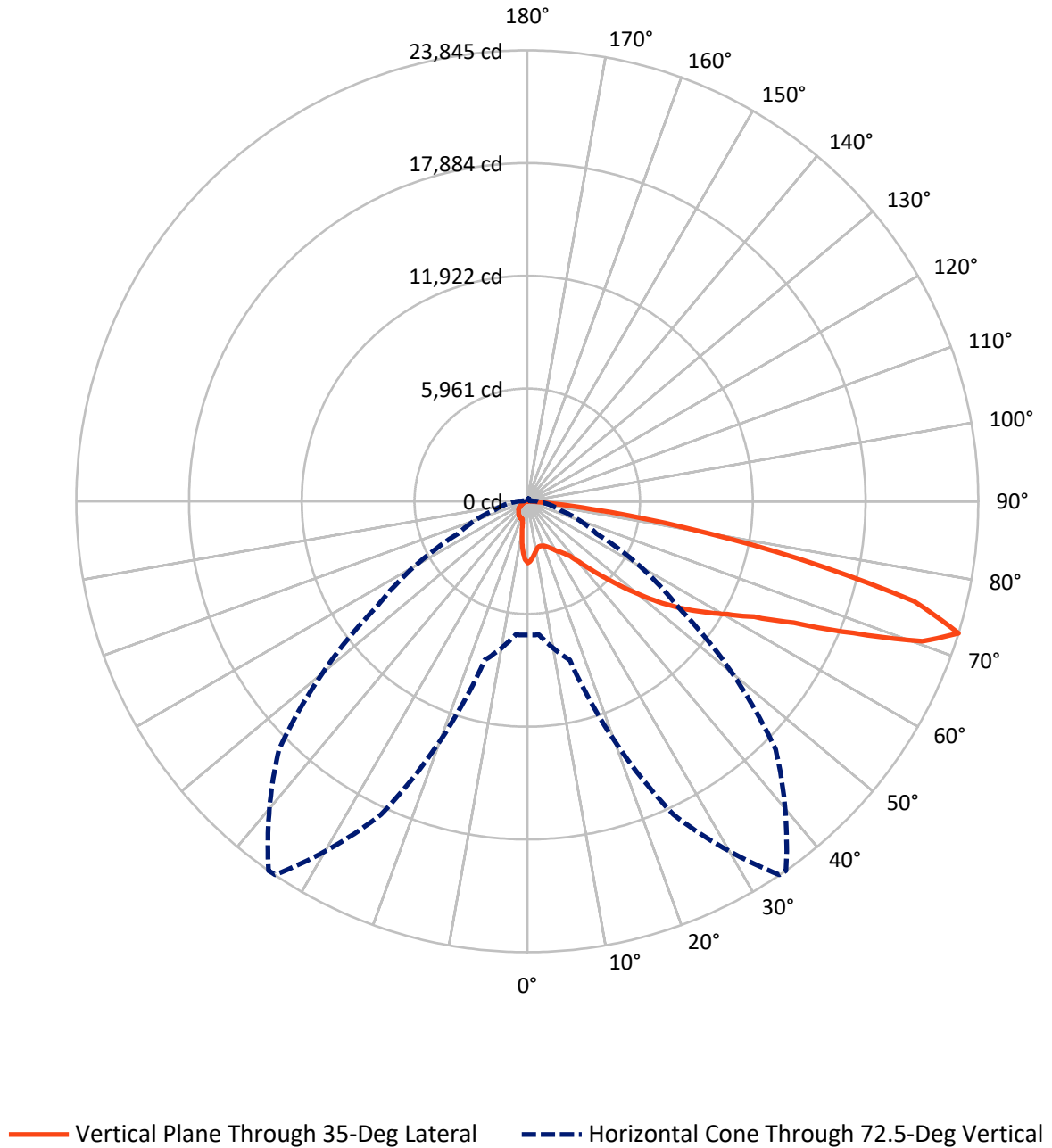
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	2530.2	0.0	2530.2
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	19951.8	0.0	19951.8
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	22482.0	0.0	22482.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.8	1.2
10°-20°	626.4	2.8
20°-30°	1017.5	4.5
30°-40°	1697.7	7.6
40°-50°	3212.2	14.3
50°-60°	5104.1	22.7
60°-70°	6314.2	28.1
70°-80°	3924.9	17.5
80°-90°	317.2	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°	22482.0	100.0
0°-180°	22482.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P942358

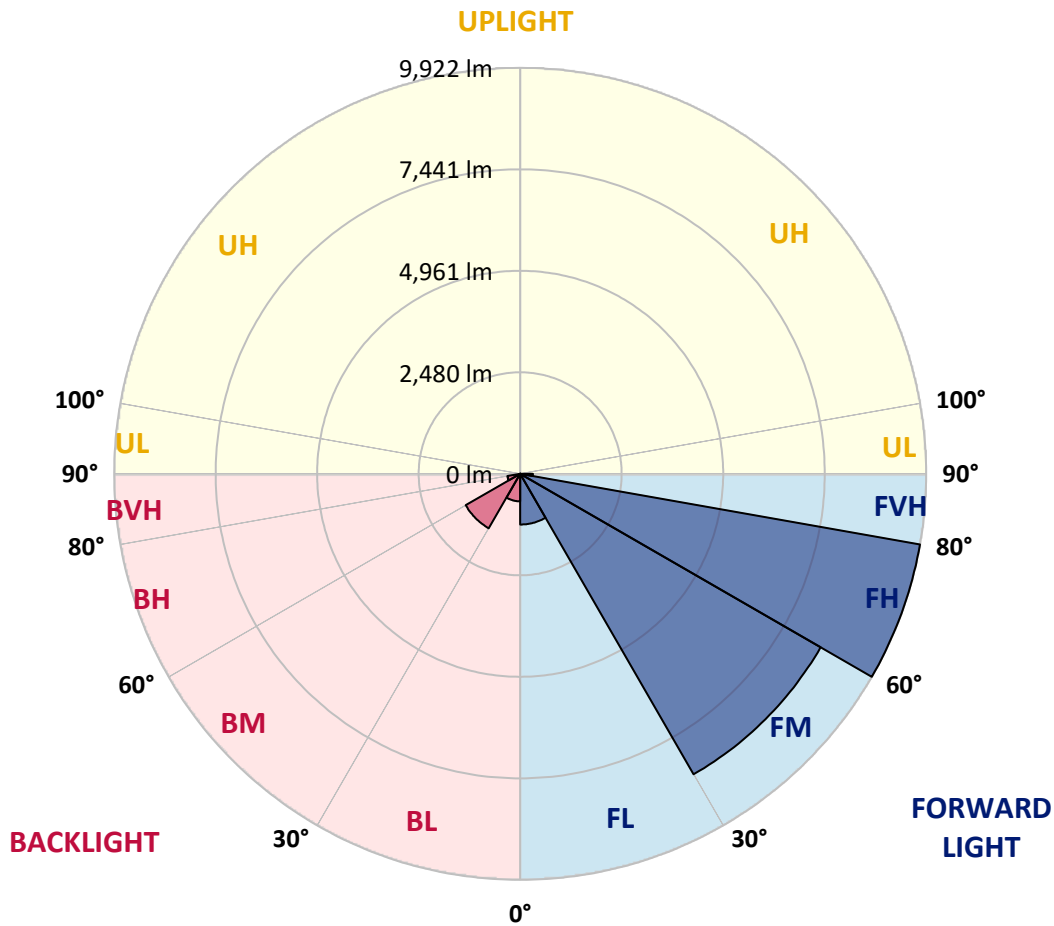
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1239.3	5.5			
FM (30°-60°)	8478.0	37.7			
FH (60°-80°)	9921.6	44.1			G4/12000
FVH (80°-90°)	312.9	1.4			G3/500
BL (0°-30°)	672.3	3.0	B2/1000		
BM (30°-60°)	1536.1	6.8	B2/2500		
BH (60°-80°)	317.5	1.4	B1/500		G1/500
BVH (80°-90°)	4.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short



REPORT NUMBER: P942358

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3258.4	3258.4	3258.4	3258.4	3258.4	3258.4	3258.4	3258.4	3258.4	3258.4
2.5°	3113.4	3139.8	3144.7	3153.0	3153.0	3162.9	3179.3	3202.4	3240.3	3260.0
5°	2869.6	2889.4	2914.1	2933.9	2971.8	2976.7	3040.9	3103.5	3190.9	3256.7
7.5°	2624.2	2647.2	2680.2	2728.0	2777.4	2792.2	2889.4	2994.8	3133.2	3256.7
10°	2451.2	2452.9	2482.5	2530.3	2609.4	2627.5	2746.1	2896.0	3069.0	3237.0
12.5°	2354.0	2365.5	2378.7	2415.0	2490.7	2502.3	2629.1	2805.4	3004.7	3225.4
15°	2354.0	2362.3	2370.5	2388.6	2449.6	2459.4	2571.5	2747.7	2971.8	3230.4
17.5°	2378.7	2391.9	2385.3	2406.7	2471.0	2477.6	2576.4	2731.3	2970.1	3261.7
20°	2438.0	2447.9	2434.7	2447.9	2512.2	2525.3	2627.5	2762.6	2998.1	3316.1
22.5°	2531.9	2536.9	2505.6	2515.5	2581.3	2597.8	2716.4	2851.5	3065.7	3403.4
25°	2650.5	2660.4	2612.6	2624.2	2686.8	2706.5	2843.3	2984.9	3172.7	3523.6
27.5°	2787.3	2792.2	2751.0	2749.4	2830.1	2858.1	2996.5	3149.7	3316.1	3675.2
30°	2943.8	2958.6	2919.0	2912.5	3014.6	3037.7	3174.4	3352.3	3526.9	3902.5
32.5°	3067.3	3078.8	3055.8	3072.2	3176.0	3194.2	3390.2	3638.9	3858.0	4225.4
35°	3245.2	3251.8	3199.1	3228.7	3347.4	3393.5	3685.1	4040.9	4274.8	4630.6
37.5°	3889.3	3889.3	3665.3	3518.7	3632.3	3673.5	4088.6	4546.6	4788.8	5174.2
40°	4780.5	4765.7	4437.9	4138.1	4123.2	4204.0	4663.6	5184.1	5452.6	5826.6
42.5°	5731.0	5708.0	5261.5	4965.0	4915.6	4943.6	5327.4	5969.9	6243.3	6622.2
45°	6574.4	6567.9	6159.3	5760.7	5671.7	5760.7	6156.0	6889.1	7085.1	7483.8
47.5°	7281.1	7281.1	6983.0	6722.7	6676.6	6729.3	7277.9	7908.8	7890.7	8401.3
50°	8094.9	8088.3	7805.0	7693.0	7740.7	7814.9	8569.3	8982.8	8724.2	9302.4
52.5°	8664.9	8704.4	8607.2	8589.1	8832.9	8961.4	9880.6	10033.8	9470.4	10157.4
55°	9116.3	9162.4	9274.4	9401.2	9870.7	10038.8	11150.7	11030.4	10094.8	10898.7
57.5°	9755.4	9689.5	9862.5	10112.9	10872.3	11074.9	12381.2	11971.1	10597.2	11499.9
60°	10531.3	10541.2	10570.8	10887.1	11872.2	12132.5	13593.7	12860.6	10920.1	11868.9
62.5°	11463.7	11478.5	11539.5	12025.4	13214.8	13460.2	14885.2	13588.7	11068.3	11765.1
65°	11399.4	11462.0	12142.4	13804.5	15255.8	15498.0	16392.5	14099.4	10844.3	10816.3
67.5°	10384.7	10486.8	11625.1	15929.6	18333.0	18603.2	18214.4	14199.9	9877.3	8411.2
70°	9053.7	9089.9	10458.8	17840.5	21896.2	22169.6	19845.2	13094.5	7495.3	4691.6
72.5°	7070.3	7078.5	8684.7	18283.6	23830.1	23844.9	18565.3	9720.8	4031.0	1802.2
75°	5050.7	5001.3	5816.7	14827.5	20965.4	21133.4	13918.2	4559.8	1540.2	851.7
77.5°	2708.2	2762.6	3291.3	8793.4	14483.2	14769.9	7594.1	1314.6	784.1	579.9
80°	836.8	883.0	1349.2	4026.0	8203.6	8376.6	2815.3	584.8	546.9	413.5
82.5°	263.6	273.5	629.3	1691.8	3405.0	3484.1	815.4	331.1	373.9	273.5
85°	75.8	77.4	280.0	630.9	841.8	858.3	229.0	128.5	214.2	169.7
87.5°	8.2	26.4	105.4	105.4	74.1	72.5	24.7	28.0	61.0	21.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942358  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3258.4	0°	3258.4	3258.4	3258.4	3258.4	3258.4	3258.4	3258.4	3258.4	3258.4	3258.4
3273.2	2.5°	3265.0	3266.6	3245.2	3209.0	3169.4	3136.5	3095.3	3062.4	3039.3	3032.7
3302.9	5°	3288.0	3276.5	3215.6	3105.2	2973.4	2859.7	2732.9	2632.4	2566.5	2538.5
3334.2	7.5°	3322.6	3289.7	3156.3	2938.8	2686.8	2462.7	2235.4	2059.1	1947.1	1891.1
3363.8	10°	3352.3	3286.4	3057.4	2698.3	2312.8	1973.5	1667.1	1454.6	1336.0	1280.0
3398.4	12.5°	3380.3	3284.8	2928.9	2413.3	1891.1	1476.0	1191.0	1085.6	1052.6	1041.1
3454.4	15°	3433.0	3289.7	2767.5	2087.2	1471.1	1115.2	1011.5	1009.8	1016.4	1013.1
3540.1	17.5°	3505.5	3294.6	2584.6	1741.2	1135.0	983.4	978.5	993.3	1003.2	998.3
3647.2	20°	3599.4	3314.4	2390.3	1398.6	975.2	950.5	962.0	975.2	983.4	975.2
3790.5	22.5°	3731.2	3349.0	2177.8	1123.5	924.1	930.7	940.6	955.4	963.7	952.1
3973.3	25°	3892.6	3403.4	1968.5	976.9	899.4	907.7	922.5	939.0	948.9	937.3
4204.0	27.5°	4101.8	3490.7	1775.8	943.9	874.7	879.7	901.1	925.8	939.0	924.1
4531.8	30°	4404.9	3634.0	1609.4	958.7	859.9	848.4	878.0	912.6	927.4	914.3
4978.2	32.5°	4806.9	3836.6	1507.3	981.8	853.3	812.1	840.1	884.6	909.3	901.1
5561.3	35°	5334.0	4144.7	1467.8	1008.2	848.4	774.2	794.0	841.8	884.6	892.8
6296.1	37.5°	5973.2	4573.0	1479.3	1019.7	833.5	742.9	752.8	794.0	850.0	876.4
7123.0	40°	6699.6	5072.1	1545.2	1008.2	817.1	716.6	718.2	749.5	798.9	838.5
8012.6	42.5°	7449.2	5655.2	1667.1	965.3	802.2	693.5	688.6	710.0	742.9	770.9
8900.5	45°	8162.5	6254.9	1787.3	906.0	784.1	670.5	658.9	667.2	673.8	685.3
9765.3	47.5°	8785.1	6676.6	1752.7	851.7	759.4	644.1	624.3	621.0	601.3	599.6
10537.9	50°	9215.1	6768.8	1556.7	797.3	723.2	614.4	583.2	563.4	528.8	512.3
11116.1	52.5°	9351.8	6404.8	1271.7	742.9	663.9	574.9	530.4	499.1	456.3	441.5
11448.9	55°	9170.6	5691.5	1016.4	677.0	581.5	522.2	472.8	431.6	397.0	378.9
11485.1	57.5°	8727.5	4783.8	803.9	599.6	494.2	462.9	413.5	372.3	342.6	324.5
11083.2	60°	7992.8	3798.7	635.9	507.4	421.7	398.7	347.6	321.2	294.9	273.5
10045.3	62.5°	6877.6	2711.5	499.1	401.9	352.5	326.2	296.5	276.7	245.5	215.8
8178.9	65°	5367.0	1658.8	385.5	294.9	283.3	270.2	252.0	233.9	196.0	166.4
5335.7	67.5°	3385.2	785.8	275.1	222.4	224.0	217.4	209.2	194.4	166.4	140.0
2390.3	70°	1490.8	380.5	181.2	169.7	166.4	166.4	173.0	168.0	141.7	117.0
830.2	72.5°	507.4	204.3	135.1	128.5	120.3	118.6	145.0	140.0	113.7	90.6
413.5	75°	265.2	136.7	98.8	92.2	72.5	87.3	115.3	108.7	80.7	59.3
273.5	77.5°	173.0	97.2	67.5	59.3	41.2	57.7	85.7	75.8	47.8	29.7
179.6	80°	108.7	64.2	39.5	28.0	19.8	31.3	46.1	32.9	18.1	6.6
105.4	82.5°	57.7	32.9	14.8	9.9	8.2	9.9	11.5	8.2	3.3	0.0
54.4	85°	23.1	11.5	4.9	3.3	1.6	0.0	3.3	1.6	0.0	0.0
9.9	87.5°	8.2	1.6	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>
3258.4
3044.2
2548.4
1899.4
1281.6
1037.8
1011.5
996.6
973.6
950.5
935.7
924.1
912.6
901.1
892.8
883.0
851.7
782.5
691.9
598.0
514.0
439.8
378.9
321.2
268.5
210.9
161.4
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112.0
85.7
54.4
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