

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: P942068

Luminaire Tested: **GALN-SB5D-927-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942068
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-SB5D-927-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 900mA 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: 23690 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

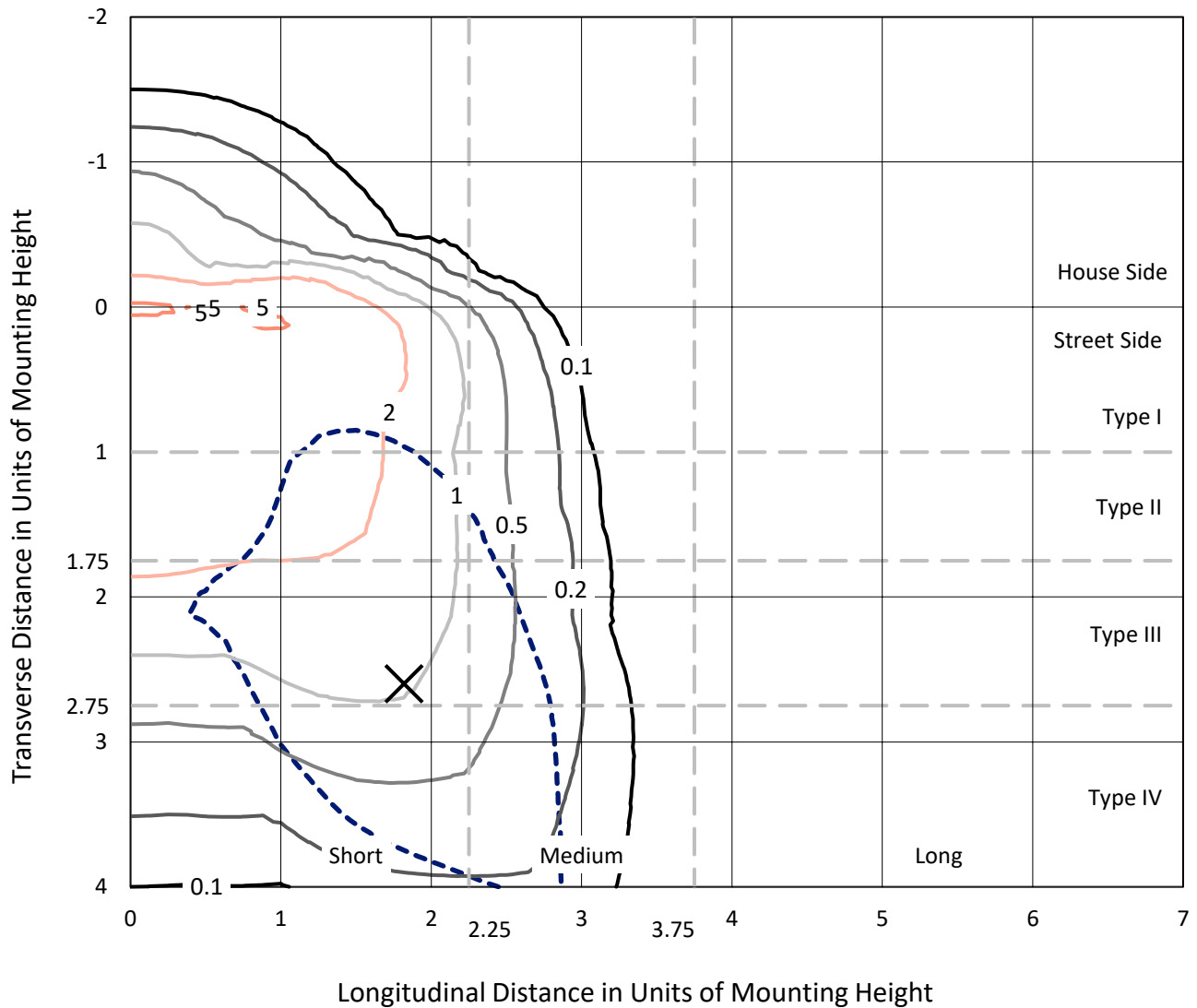
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

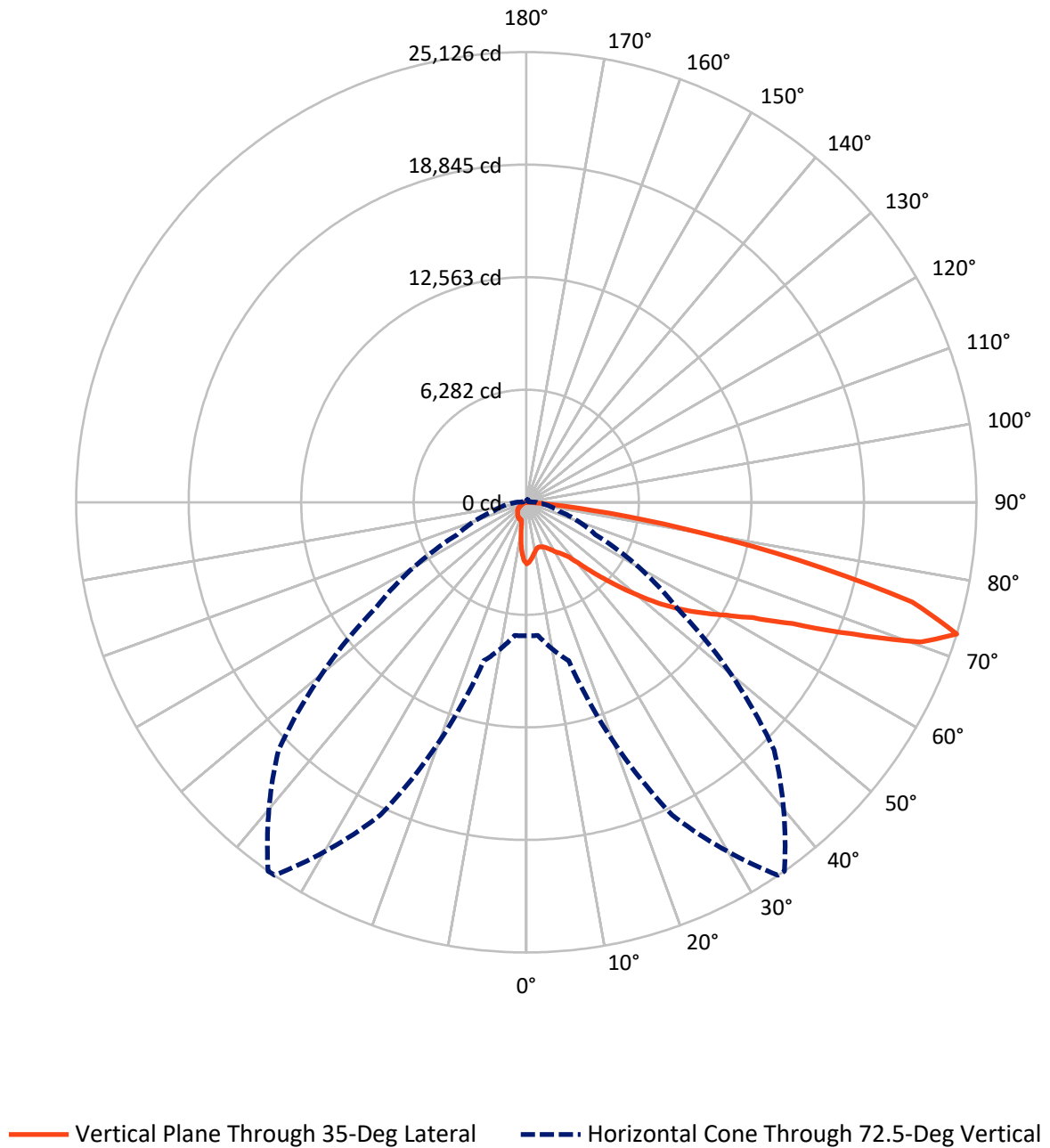
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2666.2	0.0	2666.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	21023.8	0.0	21023.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	23690.0	0.0	23690.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.1	1.2
10°-20°	660.0	2.8
20°-30°	1072.2	4.5
30°-40°	1789.0	7.6
40°-50°	3384.8	14.3
50°-60°	5378.4	22.7
60°-70°	6653.4	28.1
70°-80°	4135.8	17.5
80°-90°	334.2	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°	23690.0	100.0
0°-180°	23690.0	100.0

Coefficient of Utilization



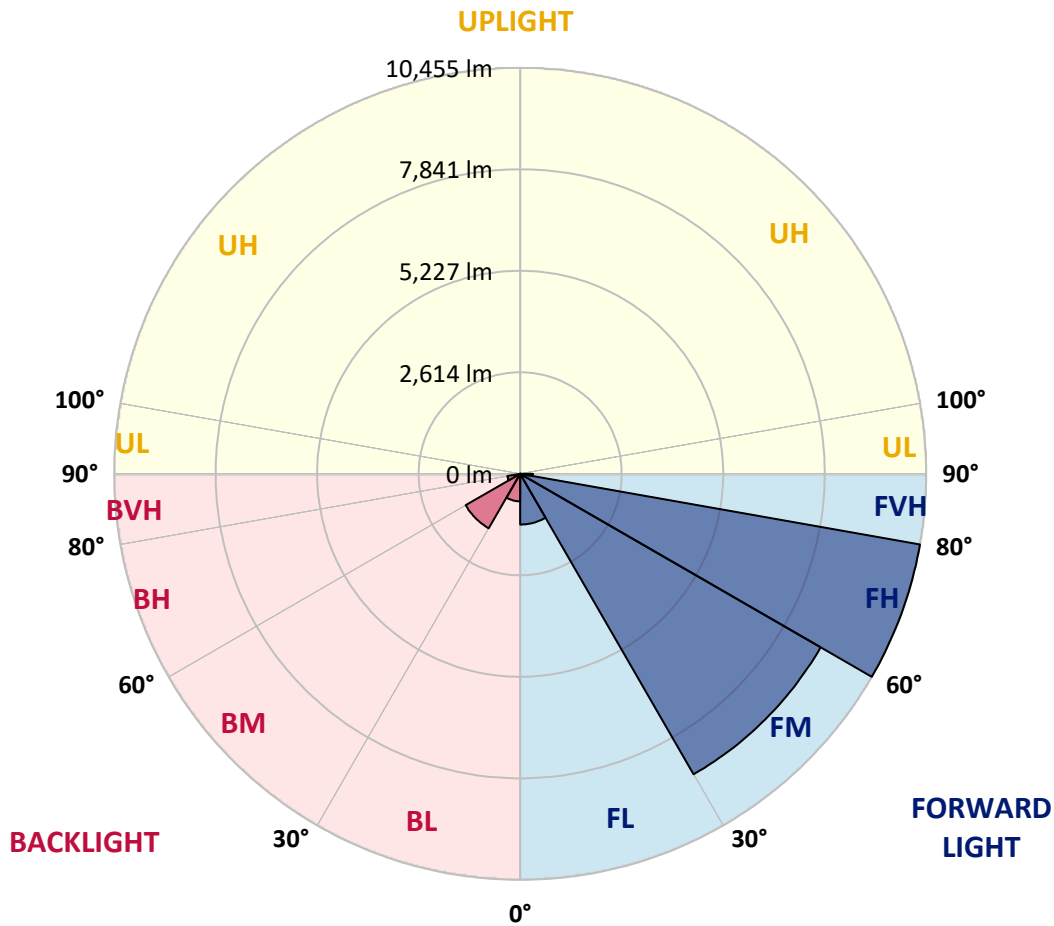
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1305.9	5.5			
FM (30°-60°)	8933.5	37.7			
FH (60°-80°)	10454.7	44.1			G4/12000
FVH (80°-90°)	329.7	1.4			G3/500
BL (0°-30°)	708.5	3.0	B2/1000		
BM (30°-60°)	1618.6	6.8	B2/2500		
BH (60°-80°)	334.6	1.4	B1/500		G1/500
BVH (80°-90°)	4.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3433.5	3433.5	3433.5	3433.5	3433.5	3433.5	3433.5	3433.5	3433.5	3433.5
2.5°	3280.7	3308.5	3313.7	3322.4	3322.4	3332.8	3350.2	3374.5	3414.4	3435.2
5°	3023.8	3044.6	3070.7	3091.5	3131.4	3136.6	3204.3	3270.3	3362.3	3431.7
7.5°	2765.2	2789.5	2824.2	2874.5	2926.6	2942.2	3044.6	3155.7	3301.6	3431.7
10°	2582.9	2584.7	2615.9	2666.2	2749.6	2768.7	2893.6	3051.6	3233.9	3410.9
12.5°	2480.5	2492.7	2506.5	2544.7	2624.6	2636.7	2770.4	2956.1	3166.2	3398.8
15°	2480.5	2489.2	2497.9	2517.0	2581.2	2591.6	2709.6	2895.4	3131.4	3404.0
17.5°	2506.5	2520.4	2513.5	2536.1	2603.7	2610.7	2714.8	2878.0	3129.7	3436.9
20°	2569.0	2579.4	2565.6	2579.4	2647.1	2661.0	2768.7	2911.0	3159.2	3494.2
22.5°	2668.0	2673.2	2640.2	2650.6	2720.0	2737.4	2862.4	3004.7	3230.4	3586.2
25°	2793.0	2803.4	2753.0	2765.2	2831.1	2852.0	2996.0	3145.3	3343.2	3712.9
27.5°	2937.0	2942.2	2898.8	2897.1	2982.2	3011.7	3157.5	3318.9	3494.2	3872.6
30°	3101.9	3117.6	3075.9	3069.0	3176.6	3200.9	3344.9	3532.4	3716.4	4112.2
32.5°	3232.1	3244.3	3220.0	3237.3	3346.7	3365.8	3572.3	3834.5	4065.3	4452.4
35°	3419.6	3426.5	3371.0	3402.2	3527.2	3575.8	3883.1	4258.0	4504.5	4879.4
37.5°	4098.3	4098.3	3862.2	3707.7	3827.5	3870.9	4308.3	4790.9	5046.1	5452.2
40°	5037.4	5021.8	4676.3	4360.4	4344.8	4429.8	4914.1	5462.7	5745.6	6139.6
42.5°	6039.0	6014.7	5544.2	5231.8	5179.7	5209.2	5613.7	6290.7	6578.8	6978.0
45°	6927.7	6920.8	6490.3	6070.2	5976.5	6070.2	6486.8	7259.2	7465.8	7885.9
47.5°	7672.4	7672.4	7358.2	7083.9	7035.3	7090.9	7668.9	8333.7	8314.6	8852.7
50°	8529.9	8522.9	8224.4	8106.3	8156.7	8234.8	9029.8	9465.5	9193.0	9802.2
52.5°	9130.5	9172.1	9069.7	9050.6	9307.5	9442.9	10411.5	10573.0	9979.3	10703.1
55°	9606.1	9654.7	9772.7	9906.4	10401.1	10578.2	11749.8	11623.1	10637.2	11484.3
57.5°	10279.6	10210.2	10392.4	10656.3	11456.5	11670.0	13046.5	12614.3	11166.6	12117.8
60°	11097.2	11107.6	11138.8	11472.1	12510.1	12784.4	14324.1	13551.6	11506.8	12506.7
62.5°	12079.7	12095.3	12159.5	12671.6	13924.8	14183.5	15685.0	14318.9	11663.1	12397.3
65°	12012.0	12077.9	12794.8	14546.3	16075.5	16330.7	17273.3	14857.0	11427.0	11397.5
67.5°	10942.7	11050.3	12249.8	16785.5	19318.1	19602.7	19193.1	14962.9	10408.0	8863.2
70°	9540.1	9578.3	11020.8	18799.1	23072.7	23360.8	20911.6	13798.1	7898.0	4943.6
72.5°	7450.2	7458.9	9151.3	19266.0	25110.5	25126.2	19562.8	10243.1	4247.6	1899.0
75°	5322.1	5270.0	6129.2	15624.2	22091.9	22269.0	14666.0	4804.8	1623.0	897.4
77.5°	2853.7	2911.0	3468.2	9265.9	15261.4	15563.5	8002.2	1385.2	826.3	611.0
80°	881.8	930.4	1421.6	4242.4	8644.4	8826.7	2966.5	616.2	576.3	435.7
82.5°	277.7	288.1	663.1	1782.7	3588.0	3671.3	859.2	348.9	394.0	288.1
85°	79.8	81.6	295.1	664.8	887.0	904.4	241.3	135.4	225.7	178.8
87.5°	8.7	27.8	111.1	111.1	78.1	76.4	26.0	29.5	64.2	22.6
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°
3433.5	0°	3433.5	3433.5	3433.5	3433.5	3433.5	3433.5	3433.5	3433.5	3433.5	3433.5
3449.1	2.5°	3440.4	3442.2	3419.6	3381.4	3339.7	3305.0	3261.6	3226.9	3202.6	3195.7
3480.3	5°	3464.7	3452.6	3388.3	3272.0	3133.2	3013.4	2879.7	2773.9	2704.4	2674.9
3513.3	7.5°	3501.2	3466.5	3325.9	3096.7	2831.1	2595.1	2355.5	2169.8	2051.8	1992.7
3544.6	10°	3532.4	3463.0	3221.7	2843.3	2437.1	2079.5	1756.7	1532.7	1407.8	1348.7
3581.0	12.5°	3561.9	3461.2	3086.3	2543.0	1992.7	1555.3	1255.0	1143.9	1109.2	1097.0
3640.0	15°	3617.5	3466.5	2916.2	2199.3	1550.1	1175.2	1065.8	1064.1	1071.0	1067.5
3730.3	17.5°	3693.9	3471.7	2723.5	1834.8	1196.0	1036.3	1031.1	1046.7	1057.1	1051.9
3843.1	20°	3792.8	3492.5	2518.7	1473.7	1027.6	1001.6	1013.7	1027.6	1036.3	1027.6
3994.1	22.5°	3931.7	3528.9	2294.8	1183.8	973.8	980.7	991.2	1006.8	1015.5	1003.3
4186.8	25°	4101.8	3586.2	2074.3	1029.3	947.8	956.4	972.1	989.4	999.8	987.7
4429.8	27.5°	4322.2	3678.2	1871.2	994.6	921.7	926.9	949.5	975.5	989.4	973.8
4775.3	30°	4641.6	3829.2	1695.9	1010.3	906.1	894.0	925.2	961.7	977.3	963.4
5245.7	32.5°	5065.2	4042.8	1588.3	1034.6	899.2	855.8	885.3	932.1	958.2	949.5
5860.2	35°	5620.6	4367.4	1546.6	1062.3	894.0	815.8	836.7	887.0	932.1	940.8
6634.3	37.5°	6294.1	4818.7	1558.8	1074.5	878.3	782.9	793.3	836.7	895.7	923.5
7505.7	40°	7059.6	5344.6	1628.2	1062.3	861.0	755.1	756.8	789.8	841.9	883.5
8443.1	42.5°	7849.4	5959.1	1756.7	1017.2	845.4	730.8	725.6	748.1	782.9	812.4
9378.7	45°	8601.0	6591.0	1883.4	954.7	826.3	706.5	694.3	703.0	710.0	722.1
10290.0	47.5°	9257.2	7035.3	1846.9	897.4	800.2	678.7	657.9	654.4	633.6	631.8
11104.1	50°	9710.2	7132.5	1640.4	840.1	762.0	647.5	614.5	593.7	557.2	539.8
11713.4	52.5°	9854.3	6748.9	1340.1	782.9	699.5	605.8	558.9	526.0	480.8	465.2
12064.0	55°	9663.4	5997.3	1071.0	713.4	612.7	550.3	498.2	454.8	418.3	399.2
12102.2	57.5°	9196.4	5040.9	847.1	631.8	520.7	487.8	435.7	392.3	361.1	342.0
11678.7	60°	8422.3	4002.8	670.0	534.6	444.4	420.1	366.3	338.5	310.7	288.1
10585.1	62.5°	7247.1	2857.2	526.0	423.5	371.5	343.7	312.4	291.6	258.6	227.4
8618.4	65°	5655.3	1748.0	406.2	310.7	298.6	284.7	265.6	246.5	206.6	175.3
5622.4	67.5°	3567.1	828.0	289.9	234.3	236.1	229.1	220.5	204.8	175.3	147.5
2518.7	70°	1570.9	401.0	190.9	178.8	175.3	175.3	182.3	177.1	149.3	123.2
874.9	72.5°	534.6	215.2	142.3	135.4	126.7	125.0	152.8	147.5	119.8	95.5
435.7	75°	279.5	144.1	104.1	97.2	76.4	92.0	121.5	114.6	85.1	62.5
288.1	77.5°	182.3	102.4	71.2	62.5	43.4	60.8	90.3	79.8	50.3	31.2
189.2	80°	114.6	67.7	41.7	29.5	20.8	33.0	48.6	34.7	19.1	6.9
111.1	82.5°	60.8	34.7	15.6	10.4	8.7	10.4	12.2	8.7	3.5	0.0
57.3	85°	24.3	12.2	5.2	3.5	1.7	0.0	3.5	1.7	0.0	0.0
10.4	87.5°	8.7	1.7	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>
3433.5
3207.8
2685.3
2001.4
1350.5
1093.6
1065.8
1050.2
1025.9
1001.6
986.0
973.8
961.7
949.5
940.8
930.4
897.4
824.5
729.0
630.1
541.6
463.5
399.2
338.5
282.9
222.2
170.1
144.1
118.0
90.3
57.3
27.8
5.2
0.0
0.0
0.0
0.0

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