

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: P943798

Luminaire Tested: **GALN-SB8B-940-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943798
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-SB8B-940-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 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: 24982 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

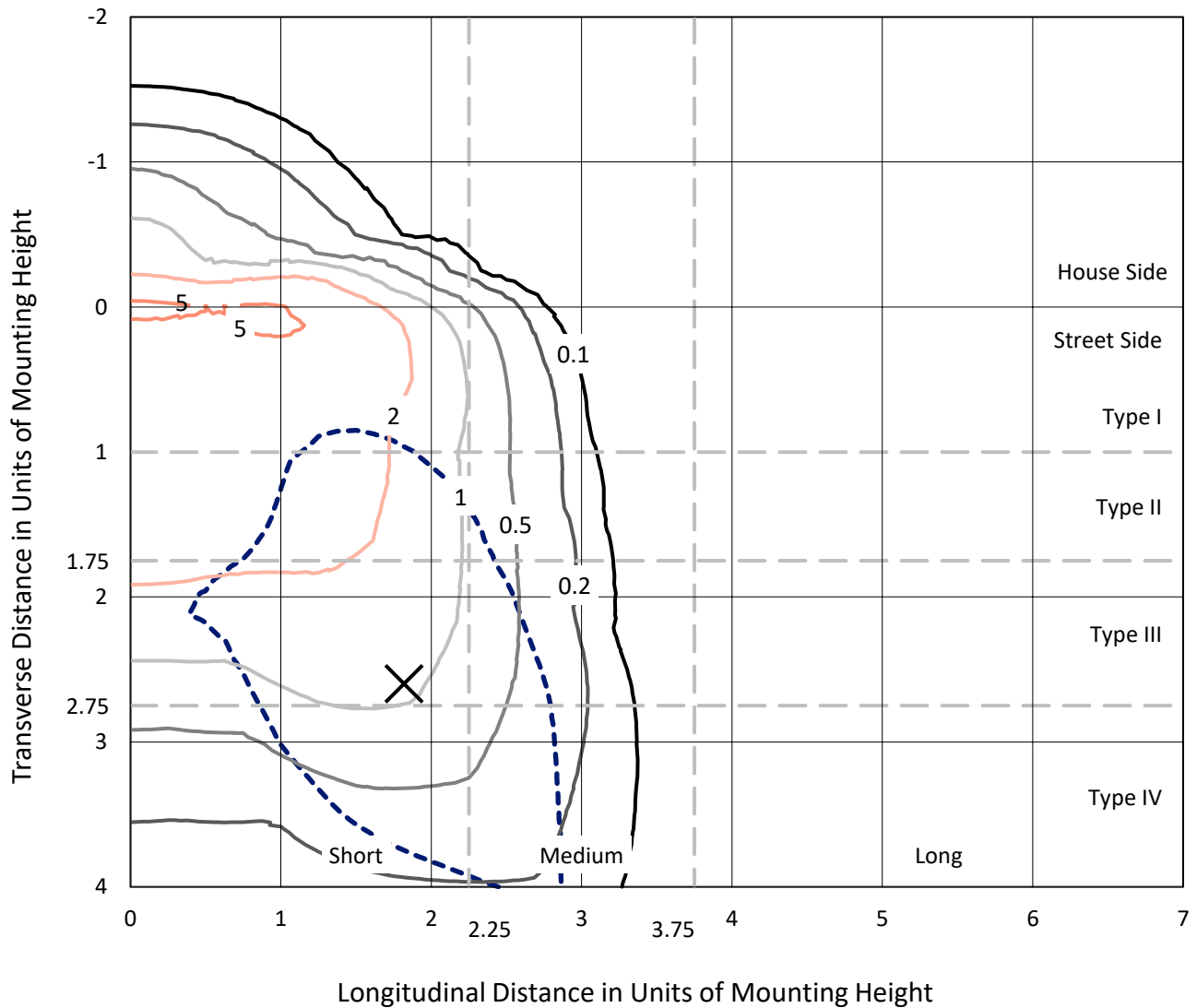
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

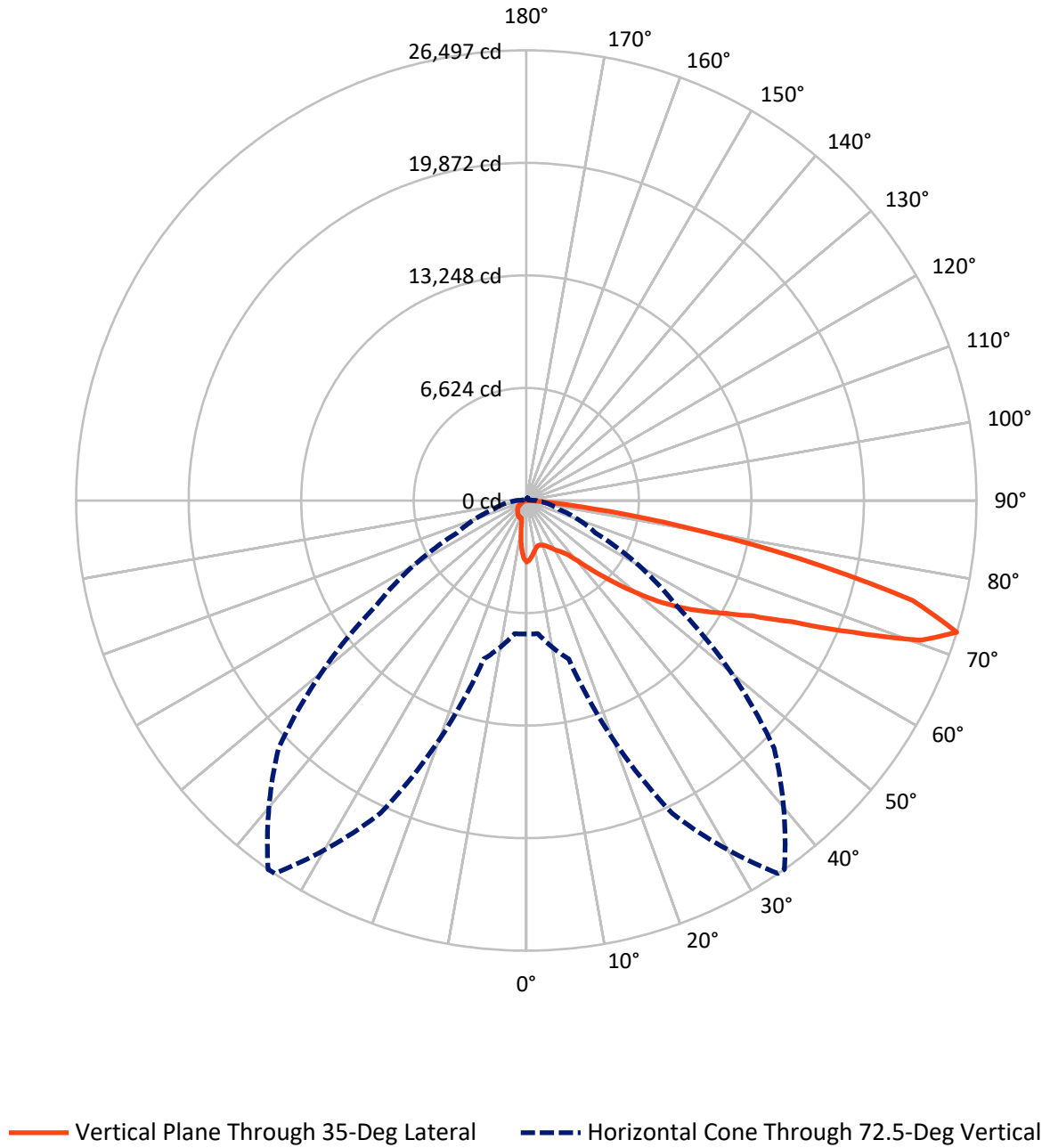
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	2811.6	0.0	2811.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	22170.4	0.0	22170.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	24982.0	0.0	24982.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.5	1.2
10°-20°	696.0	2.8
20°-30°	1130.7	4.5
30°-40°	1886.5	7.6
40°-50°	3569.4	14.3
50°-60°	5671.7	22.7
60°-70°	7016.3	28.1
70°-80°	4361.4	17.5
80°-90°	352.5	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°	24982.0	100.0
0°-180°	24982.0	100.0

Coefficient of Utilization



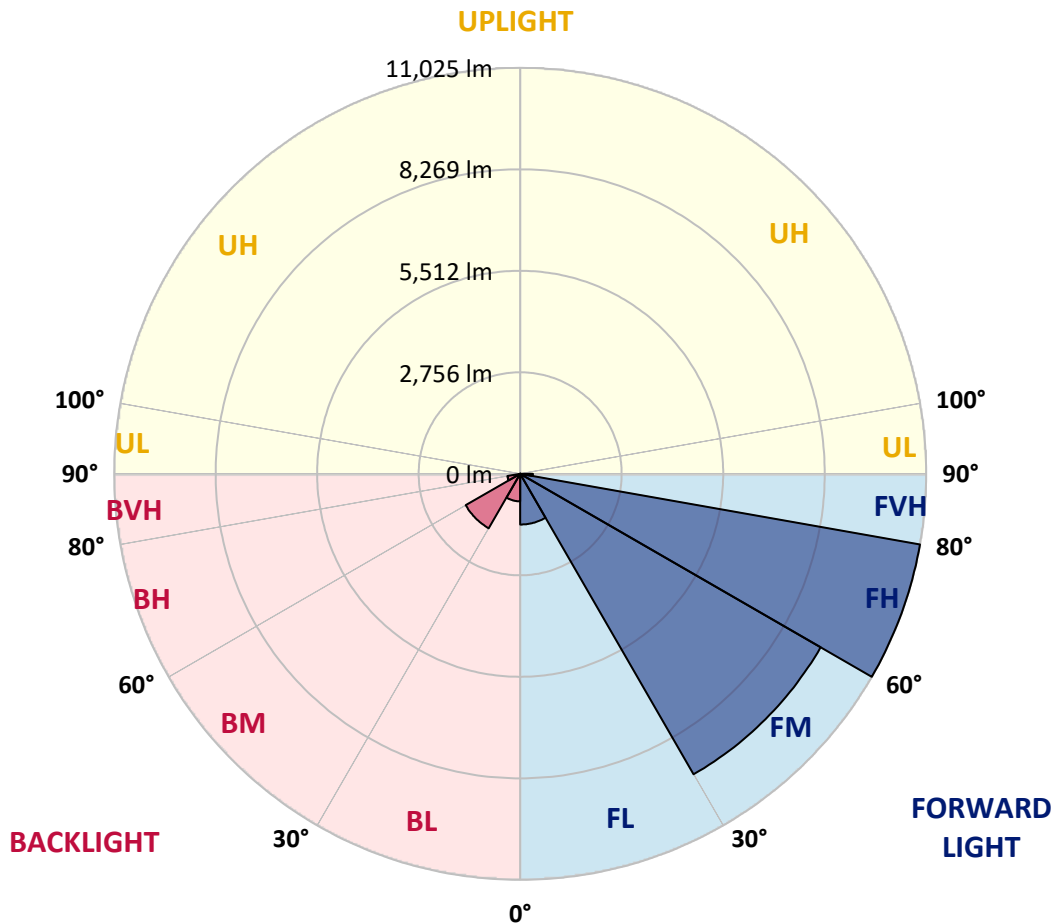
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1377.1	5.5			
FM (30°-60°)	9420.7	37.7			
FH (60°-80°)	11024.9	44.1			G4/12000
FVH (80°-90°)	347.7	1.4			G3/500
BL (0°-30°)	747.1	3.0	B2/1000		
BM (30°-60°)	1706.9	6.8	B2/2500		
BH (60°-80°)	352.8	1.4	B1/500		G1/500
BVH (80°-90°)	4.8	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°	3620.7	3620.7	3620.7	3620.7	3620.7	3620.7	3620.7	3620.7	3620.7	3620.7
2.5°	3459.6	3488.9	3494.4	3503.6	3503.6	3514.6	3532.9	3558.5	3600.6	3622.6
5°	3188.7	3210.7	3238.2	3260.1	3302.2	3307.7	3379.1	3448.7	3545.7	3618.9
7.5°	2916.0	2941.6	2978.2	3031.3	3086.2	3102.7	3210.7	3327.8	3481.6	3618.9
10°	2723.8	2725.6	2758.6	2811.6	2899.5	2919.6	3051.4	3218.0	3410.2	3596.9
12.5°	2615.8	2628.6	2643.2	2683.5	2767.7	2780.5	2921.5	3117.3	3338.8	3584.1
15°	2615.8	2624.9	2634.1	2654.2	2722.0	2732.9	2857.4	3053.3	3302.2	3589.6
17.5°	2643.2	2657.9	2650.6	2674.4	2745.8	2753.1	2862.9	3035.0	3300.4	3624.4
20°	2709.1	2720.1	2705.5	2720.1	2791.5	2806.2	2919.6	3069.7	3331.5	3684.8
22.5°	2813.5	2819.0	2784.2	2795.2	2868.4	2886.7	3018.5	3168.6	3406.6	3781.8
25°	2945.3	2956.3	2903.2	2916.0	2985.5	3007.5	3159.4	3316.9	3525.5	3915.4
27.5°	3097.2	3102.7	3056.9	3055.1	3144.8	3175.9	3329.7	3499.9	3684.8	4083.8
30°	3271.1	3287.6	3243.6	3236.3	3349.8	3375.4	3527.4	3725.1	3919.1	4336.5
32.5°	3408.4	3421.2	3395.6	3413.9	3529.2	3549.3	3767.2	4043.6	4287.0	4695.2
35°	3606.1	3613.4	3554.8	3587.8	3719.6	3770.8	4094.8	4490.2	4750.1	5145.5
37.5°	4321.8	4321.8	4072.9	3909.9	4036.3	4082.0	4543.3	5052.2	5321.3	5749.6
40°	5312.1	5295.6	4931.4	4598.2	4581.7	4671.4	5182.1	5760.6	6059.0	6474.5
42.5°	6368.3	6342.7	5846.6	5517.1	5462.2	5493.3	5919.8	6633.7	6937.6	7358.6
45°	7305.5	7298.2	6844.2	6401.3	6302.4	6401.3	6840.6	7655.2	7873.0	8316.0
47.5°	8090.8	8090.8	7759.5	7470.3	7419.0	7477.6	8087.1	8788.2	8768.1	9335.6
50°	8995.1	8987.8	8672.9	8548.4	8601.5	8683.9	9522.3	9981.7	9694.3	10336.8
52.5°	9628.4	9672.4	9564.4	9544.2	9815.1	9957.9	10979.3	11149.6	10523.5	11286.9
55°	10130.0	10181.2	10305.7	10446.7	10968.4	11155.1	12390.7	12257.0	11217.3	12110.6
57.5°	10840.2	10767.0	10959.2	11237.4	12081.3	12306.5	13758.0	13302.2	11775.6	12778.7
60°	11702.4	11713.4	11746.3	12097.8	13192.4	13481.6	15105.3	14290.7	12134.4	13188.8
62.5°	12738.5	12754.9	12822.7	13362.7	14684.3	14957.0	16540.4	15099.8	12299.1	13073.4
65°	12667.1	12736.6	13492.6	15339.6	16952.3	17221.3	18215.3	15667.3	12050.2	12019.1
67.5°	11539.5	11653.0	12917.8	17700.9	20371.6	20671.8	20239.8	15778.9	10975.7	9346.5
70°	10060.4	10100.7	11621.8	19824.3	24331.0	24634.9	22052.0	14550.6	8328.8	5213.3
72.5°	7856.5	7865.7	9650.4	20316.7	26480.0	26496.5	20629.7	10801.8	4479.2	2002.6
75°	5612.3	5557.4	6463.5	16476.3	23296.8	23483.5	15465.9	5066.8	1711.5	946.4
77.5°	3009.3	3069.7	3657.3	9771.2	16093.8	16412.3	8438.6	1460.7	871.3	644.3
80°	929.9	981.1	1499.2	4473.7	9115.9	9308.1	3128.3	649.8	607.7	459.5
82.5°	292.9	303.9	699.3	1879.9	3783.6	3871.5	906.1	367.9	415.5	303.9
85°	84.2	86.0	311.2	701.1	935.4	953.7	254.4	142.8	238.0	188.5
87.5°	9.2	29.3	117.2	117.2	82.4	80.5	27.5	31.1	67.7	23.8
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°
3620.7	0°	3620.7	3620.7	3620.7	3620.7	3620.7	3620.7	3620.7	3620.7	3620.7	3620.7
3637.2	2.5°	3628.1	3629.9	3606.1	3565.8	3521.9	3485.3	3439.5	3402.9	3377.3	3370.0
3670.2	5°	3653.7	3640.9	3573.1	3450.5	3304.1	3177.7	3036.8	2925.1	2851.9	2820.8
3704.9	7.5°	3692.1	3655.5	3507.2	3265.6	2985.5	2736.6	2484.0	2288.1	2163.7	2101.4
3737.9	10°	3725.1	3651.8	3397.4	2998.4	2570.0	2192.9	1852.5	1616.3	1484.5	1422.3
3776.3	12.5°	3756.2	3650.0	3254.6	2681.7	2101.4	1640.1	1323.5	1206.3	1169.7	1156.9
3838.6	15°	3814.8	3655.5	3075.2	2319.2	1634.6	1239.2	1123.9	1122.1	1129.4	1125.8
3933.7	17.5°	3895.3	3661.0	2872.1	1934.8	1261.2	1092.8	1087.3	1103.8	1114.8	1109.3
4052.7	20°	3999.6	3683.0	2656.1	1554.1	1083.7	1056.2	1069.0	1083.7	1092.8	1083.7
4212.0	22.5°	4146.1	3721.4	2419.9	1248.4	1026.9	1034.2	1045.2	1061.7	1070.8	1058.0
4415.2	25°	4325.5	3781.8	2187.4	1085.5	999.5	1008.6	1025.1	1043.4	1054.4	1041.6
4671.4	27.5°	4557.9	3878.8	1973.3	1048.9	972.0	977.5	1001.3	1028.7	1043.4	1026.9
5035.7	30°	4894.8	4038.1	1788.4	1065.4	955.5	942.7	975.7	1014.1	1030.6	1015.9
5531.8	32.5°	5341.4	4263.2	1674.9	1091.0	948.2	902.4	933.6	983.0	1010.4	1001.3
6179.8	35°	5927.2	4605.5	1631.0	1120.3	942.7	860.3	882.3	935.4	983.0	992.1
6996.2	37.5°	6637.4	5081.5	1643.8	1133.1	926.2	825.6	836.5	882.3	944.5	973.8
7915.1	40°	7444.6	5636.1	1717.0	1120.3	907.9	796.3	798.1	832.9	887.8	931.7
8903.6	42.5°	8277.5	6284.1	1852.5	1072.7	891.5	770.6	765.1	788.9	825.6	856.7
9890.2	45°	9070.1	6950.4	1986.1	1006.8	871.3	745.0	732.2	741.4	748.7	761.5
10851.2	47.5°	9762.1	7419.0	1947.7	946.4	843.9	715.7	693.8	690.1	668.1	666.3
11709.7	50°	10239.8	7521.5	1729.8	886.0	803.6	682.8	648.0	626.0	587.6	569.3
12352.2	52.5°	10391.7	7117.0	1413.1	825.6	737.7	638.8	589.4	554.6	507.0	490.6
12722.0	55°	10190.4	6324.4	1129.4	752.3	646.2	580.3	525.4	479.6	441.2	421.0
12762.2	57.5°	9698.0	5315.8	893.3	666.3	549.2	514.4	459.5	413.7	380.7	360.6
12315.6	60°	8881.6	4221.1	706.6	563.8	468.6	443.0	386.2	356.9	327.7	303.9
11162.4	62.5°	7642.3	3013.0	554.6	446.6	391.7	362.4	329.5	307.5	272.7	239.8
9088.4	65°	5963.8	1843.3	428.3	327.7	314.8	300.2	280.1	259.9	217.8	184.9
5929.0	67.5°	3761.7	873.1	305.7	247.1	248.9	241.6	232.5	216.0	184.9	155.6
2656.1	70°	1656.6	422.8	201.4	188.5	184.9	184.9	192.2	186.7	157.4	130.0
922.6	72.5°	563.8	227.0	150.1	142.8	133.6	131.8	161.1	155.6	126.3	100.7
459.5	75°	294.7	151.9	109.8	102.5	80.5	97.0	128.1	120.8	89.7	65.9
303.9	77.5°	192.2	108.0	75.1	65.9	45.8	64.1	95.2	84.2	53.1	32.9
199.5	80°	120.8	71.4	43.9	31.1	22.0	34.8	51.3	36.6	20.1	7.3
117.2	82.5°	64.1	36.6	16.5	11.0	9.2	11.0	12.8	9.2	3.7	0.0
60.4	85°	25.6	12.8	5.5	3.7	1.8	0.0	3.7	1.8	0.0	0.0
11.0	87.5°	9.2	1.8	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>
3620.7
3382.8
2831.8
2110.6
1424.1
1153.2
1123.9
1107.5
1081.8
1056.2
1039.7
1026.9
1014.1
1001.3
992.1
981.1
946.4
869.5
768.8
664.5
571.1
488.7
421.0
356.9
298.4
234.3
179.4
151.9
124.5
95.2
60.4
29.3
5.5
0.0
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