

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: P941338

Luminaire Tested: **GALN-SB4D-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941338
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-SB4D-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 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: 26851 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

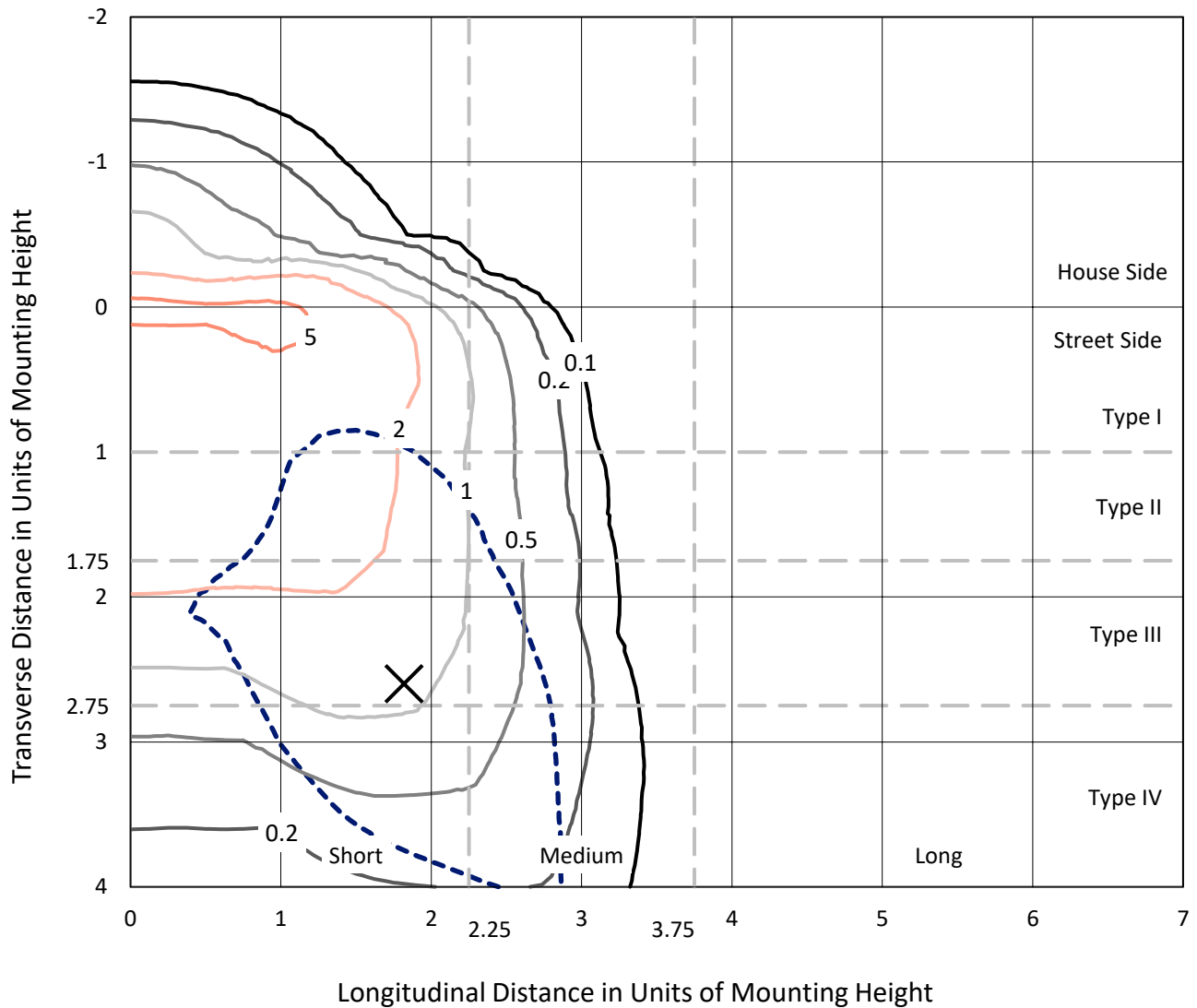
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

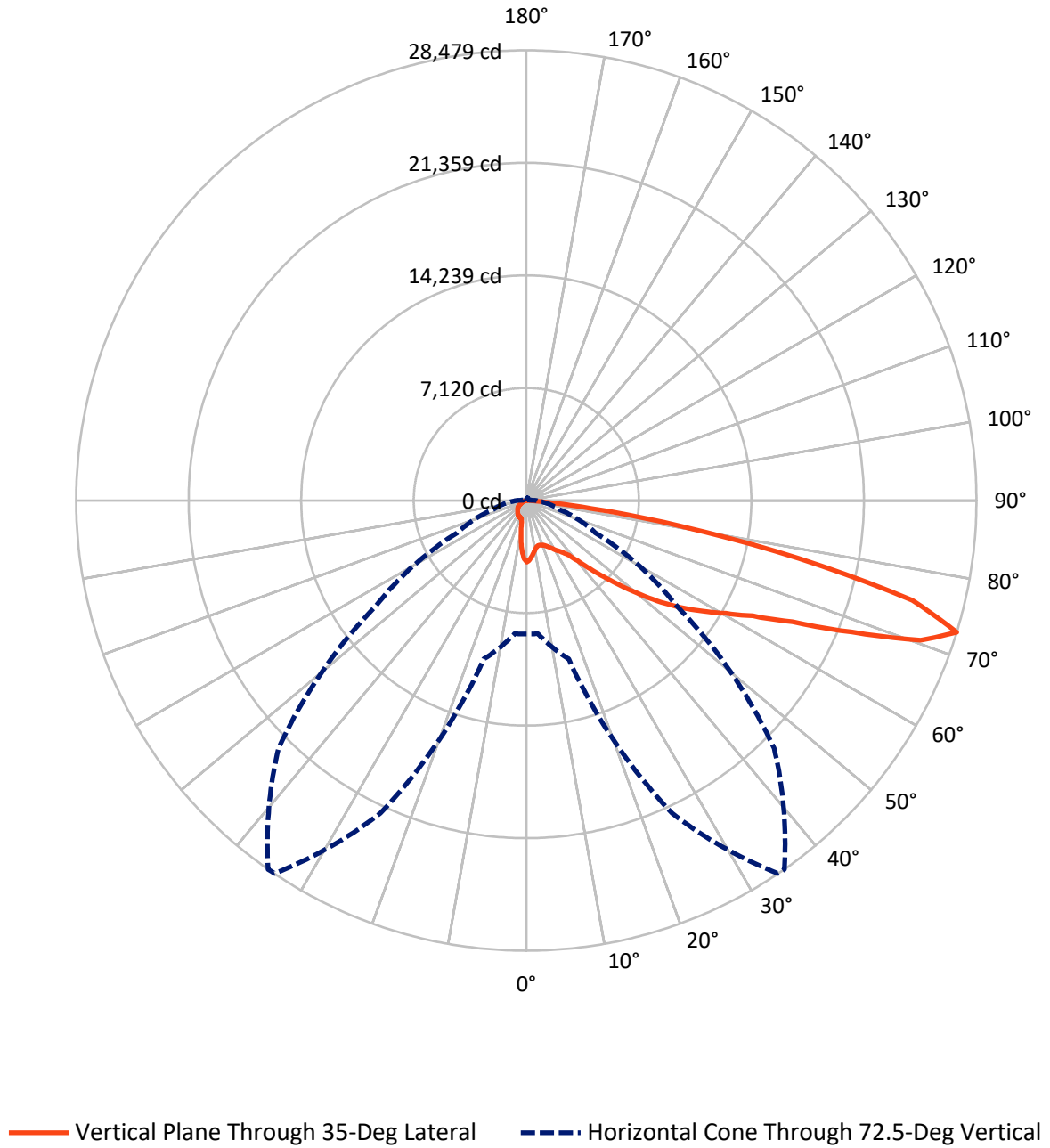
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	3022.0	0.0	3022.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	23829.1	0.0	23829.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	26851.0	0.0	26851.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.8	1.2
10°-20°	748.1	2.8
20°-30°	1215.3	4.5
30°-40°	2027.7	7.6
40°-50°	3836.4	14.3
50°-60°	6096.0	22.7
60°-70°	7541.2	28.1
70°-80°	4687.7	17.5
80°-90°	378.8	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°	26851.0	100.0
0°-180°	26851.0	100.0

Coefficient of Utilization



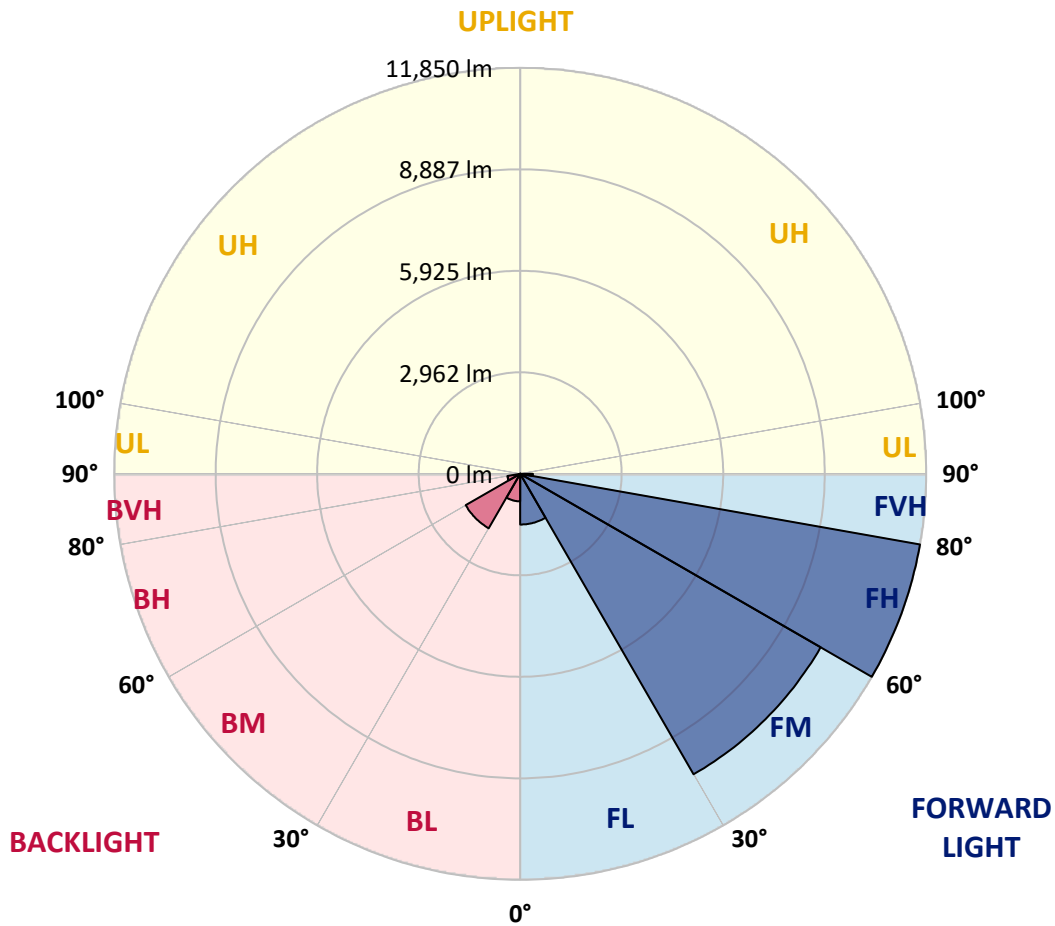
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1480.2	5.5			
FM (30°-60°)	10125.5	37.7			
FH (60°-80°)	11849.7	44.1			G4/12000
FVH (80°-90°)	373.7	1.4			G3/500
BL (0°-30°)	803.0	3.0	B2/1000		
BM (30°-60°)	1834.6	6.8	B2/2500		
BH (60°-80°)	379.2	1.4	B1/500		G1/500
BVH (80°-90°)	5.2	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°	3891.6	3891.6	3891.6	3891.6	3891.6	3891.6	3891.6	3891.6	3891.6	3891.6
2.5°	3718.5	3750.0	3755.9	3765.7	3765.7	3777.5	3797.2	3824.7	3870.0	3893.6
5°	3427.3	3450.9	3480.4	3504.0	3549.3	3555.2	3631.9	3706.7	3810.9	3889.6
7.5°	3134.1	3161.7	3201.0	3258.1	3317.1	3334.8	3450.9	3576.8	3742.1	3889.6
10°	2927.6	2929.5	2964.9	3022.0	3116.4	3138.1	3279.7	3458.8	3665.4	3866.0
12.5°	2811.5	2825.3	2841.0	2884.3	2974.8	2988.6	3140.0	3350.6	3588.6	3852.3
15°	2811.5	2821.3	2831.2	2852.8	2925.6	2937.4	3071.2	3281.7	3549.3	3858.2
17.5°	2841.0	2856.7	2848.9	2874.4	2951.2	2959.0	3077.1	3262.0	3547.3	3895.5
20°	2911.8	2923.6	2907.9	2923.6	3000.4	3016.1	3138.1	3299.4	3580.8	3960.5
22.5°	3024.0	3029.9	2992.5	3004.3	3083.0	3102.7	3244.3	3405.7	3661.4	4064.7
25°	3165.6	3177.4	3120.4	3134.1	3208.9	3232.5	3395.8	3565.0	3789.3	4208.4
27.5°	3328.9	3334.8	3285.6	3283.7	3380.1	3413.5	3578.8	3761.8	3960.5	4389.4
30°	3515.8	3533.5	3486.3	3478.4	3600.4	3628.0	3791.3	4003.8	4212.3	4660.9
32.5°	3663.4	3677.2	3649.6	3669.3	3793.2	3814.9	4049.0	4346.1	4607.8	5046.5
35°	3875.9	3883.7	3820.8	3856.2	3997.9	4052.9	4401.2	4826.1	5105.5	5530.5
37.5°	4645.1	4645.1	4377.6	4202.5	4338.2	4387.4	4883.2	5430.2	5719.4	6179.8
40°	5709.5	5691.8	5300.3	4942.2	4924.5	5020.9	5569.8	6191.6	6512.2	6958.9
42.5°	6844.7	6817.2	6284.0	5929.9	5870.9	5904.3	6362.7	7130.0	7456.6	7909.1
45°	7852.1	7844.2	7356.3	6880.2	6773.9	6880.2	7352.3	8227.9	8462.0	8938.1
47.5°	8696.1	8696.1	8340.0	8029.2	7974.1	8037.0	8692.2	9445.7	9424.1	10034.0
50°	9668.0	9660.2	9321.8	9188.0	9245.0	9333.6	10234.7	10728.5	10419.6	11110.2
52.5°	10348.8	10396.0	10279.9	10258.3	10549.5	10702.9	11800.7	11983.7	11310.9	12131.3
55°	10887.9	10942.9	11076.7	11228.2	11788.9	11989.6	13317.6	13174.0	12056.5	13016.6
57.5°	11651.2	11572.5	11779.1	12078.2	12985.2	13227.1	14787.3	14297.4	12656.6	13734.7
60°	12577.9	12589.7	12625.1	13002.9	14179.4	14490.2	16235.4	15359.9	13042.2	14175.5
62.5°	13691.5	13709.2	13782.0	14362.4	15782.9	16076.0	17777.9	16229.5	13219.3	14051.5
65°	13614.7	13689.5	14502.1	16487.2	18220.5	18509.7	19578.1	16839.4	12951.7	12918.3
67.5°	12402.8	12524.8	13884.3	19025.2	21895.7	22218.4	21754.1	16959.4	11796.8	10045.8
70°	10813.1	10856.4	12491.3	21307.5	26151.3	26477.9	23701.8	15639.2	8951.9	5603.3
72.5°	8444.3	8454.1	10372.4	21836.7	28461.1	28478.8	22173.1	11609.9	4814.3	2152.4
75°	6032.2	5973.2	6947.1	17709.0	25039.7	25240.4	16623.0	5445.9	1839.6	1017.2
77.5°	3234.5	3299.4	3931.0	10502.2	17297.8	17640.1	9069.9	1570.0	936.5	692.5
80°	999.5	1054.6	1611.3	4808.4	9797.9	10004.5	3362.4	698.4	653.2	493.8
82.5°	314.8	326.6	751.6	2020.6	4066.7	4161.2	973.9	395.5	446.6	326.6
85°	90.5	92.5	334.5	753.5	1005.4	1025.0	273.5	153.5	255.8	202.6
87.5°	9.8	31.5	125.9	125.9	88.5	86.6	29.5	33.4	72.8	25.6
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°
3891.6	0°	3891.6	3891.6	3891.6	3891.6	3891.6	3891.6	3891.6	3891.6	3891.6	3891.6
3909.3	2.5°	3899.5	3901.4	3875.9	3832.6	3785.4	3746.0	3696.8	3657.5	3629.9	3622.1
3944.7	5°	3927.0	3913.3	3840.5	3708.6	3551.2	3415.5	3264.0	3144.0	3065.3	3031.8
3982.1	7.5°	3968.3	3929.0	3769.6	3509.9	3208.9	2941.3	2669.8	2459.3	2325.5	2258.6
4017.5	10°	4003.8	3925.1	3651.6	3222.7	2762.3	2357.0	1991.1	1737.3	1595.6	1528.7
4058.8	12.5°	4037.2	3923.1	3498.1	2882.3	2258.6	1762.8	1422.5	1296.5	1257.2	1243.4
4125.7	15°	4100.2	3929.0	3305.3	2492.8	1756.9	1332.0	1208.0	1206.0	1213.9	1210.0
4228.0	17.5°	4186.7	3934.9	3086.9	2079.6	1355.6	1174.6	1168.7	1186.4	1198.2	1192.3
4355.9	20°	4298.9	3958.5	2854.8	1670.4	1164.7	1135.2	1149.0	1164.7	1174.6	1164.7
4527.1	22.5°	4456.3	3999.8	2601.0	1341.8	1103.7	1111.6	1123.4	1141.1	1151.0	1137.2
4745.5	25°	4649.1	4064.7	2351.1	1166.7	1074.2	1084.1	1101.8	1121.4	1133.2	1119.5
5020.9	27.5°	4898.9	4169.0	2120.9	1127.3	1044.7	1050.6	1076.2	1105.7	1121.4	1103.7
5412.4	30°	5261.0	4340.2	1922.2	1145.1	1027.0	1013.2	1048.6	1090.0	1107.7	1091.9
5945.6	32.5°	5741.0	4582.2	1800.2	1172.6	1019.1	970.0	1003.4	1056.5	1086.0	1076.2
6642.1	35°	6370.6	4950.1	1753.0	1204.1	1013.2	924.7	948.3	1005.4	1056.5	1066.4
7519.6	37.5°	7134.0	5461.6	1766.8	1217.8	995.5	887.3	899.1	948.3	1015.2	1046.7
8507.2	40°	8001.6	6057.8	1845.5	1204.1	975.9	855.8	857.8	895.2	954.2	1001.4
9569.7	42.5°	8896.8	6754.2	1991.1	1152.9	958.1	828.3	822.4	848.0	887.3	920.8
10630.1	45°	9748.7	7470.4	2134.7	1082.1	936.5	800.8	787.0	796.8	804.7	818.5
11663.0	47.5°	10492.4	7974.1	2093.4	1017.2	907.0	769.3	745.7	741.7	718.1	716.2
12585.8	50°	11005.9	8084.2	1859.2	952.2	863.7	733.9	696.5	672.9	631.6	611.9
13276.3	52.5°	11169.2	7649.4	1518.9	887.3	792.9	686.6	633.5	596.1	545.0	527.3
13673.8	55°	10952.8	6797.5	1213.9	808.6	694.5	623.7	564.7	515.5	474.2	452.5
13717.0	57.5°	10423.5	5713.5	960.1	716.2	590.2	552.9	493.8	444.6	409.2	387.6
13237.0	60°	9546.1	4536.9	759.4	606.0	503.7	476.1	415.1	383.7	352.2	326.6
11997.5	62.5°	8214.1	3238.4	596.1	480.1	421.0	389.6	354.1	330.5	293.1	257.7
9768.4	65°	6409.9	1981.2	460.4	352.2	338.4	322.7	301.0	279.4	234.1	198.7
6372.6	67.5°	4043.1	938.5	328.6	265.6	267.6	259.7	249.9	232.2	198.7	167.2
2854.8	70°	1780.5	454.5	216.4	202.6	198.7	198.7	206.6	200.7	169.2	139.7
991.6	72.5°	606.0	244.0	161.3	153.5	143.6	141.7	173.1	167.2	135.8	108.2
493.8	75°	316.8	163.3	118.0	110.2	86.6	104.3	137.7	129.9	96.4	70.8
326.6	77.5°	206.6	116.1	80.7	70.8	49.2	68.9	102.3	90.5	57.1	35.4
214.5	80°	129.9	76.7	47.2	33.4	23.6	37.4	55.1	39.3	21.6	7.9
125.9	82.5°	68.9	39.3	17.7	11.8	9.8	11.8	13.8	9.8	3.9	0.0
64.9	85°	27.5	13.8	5.9	3.9	2.0	0.0	3.9	2.0	0.0	0.0
11.8	87.5°	9.8	2.0	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>
3891.6
3635.8
3043.6
2268.5
1530.7
1239.5
1208.0
1190.3
1162.8
1135.2
1117.5
1103.7
1090.0
1076.2
1066.4
1054.6
1017.2
934.5
826.3
714.2
613.8
525.3
452.5
383.7
320.7
251.8
192.8
163.3
133.8
102.3
64.9
31.5
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