

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: P941172

Luminaire Tested: **GALN-SB4C-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26734 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

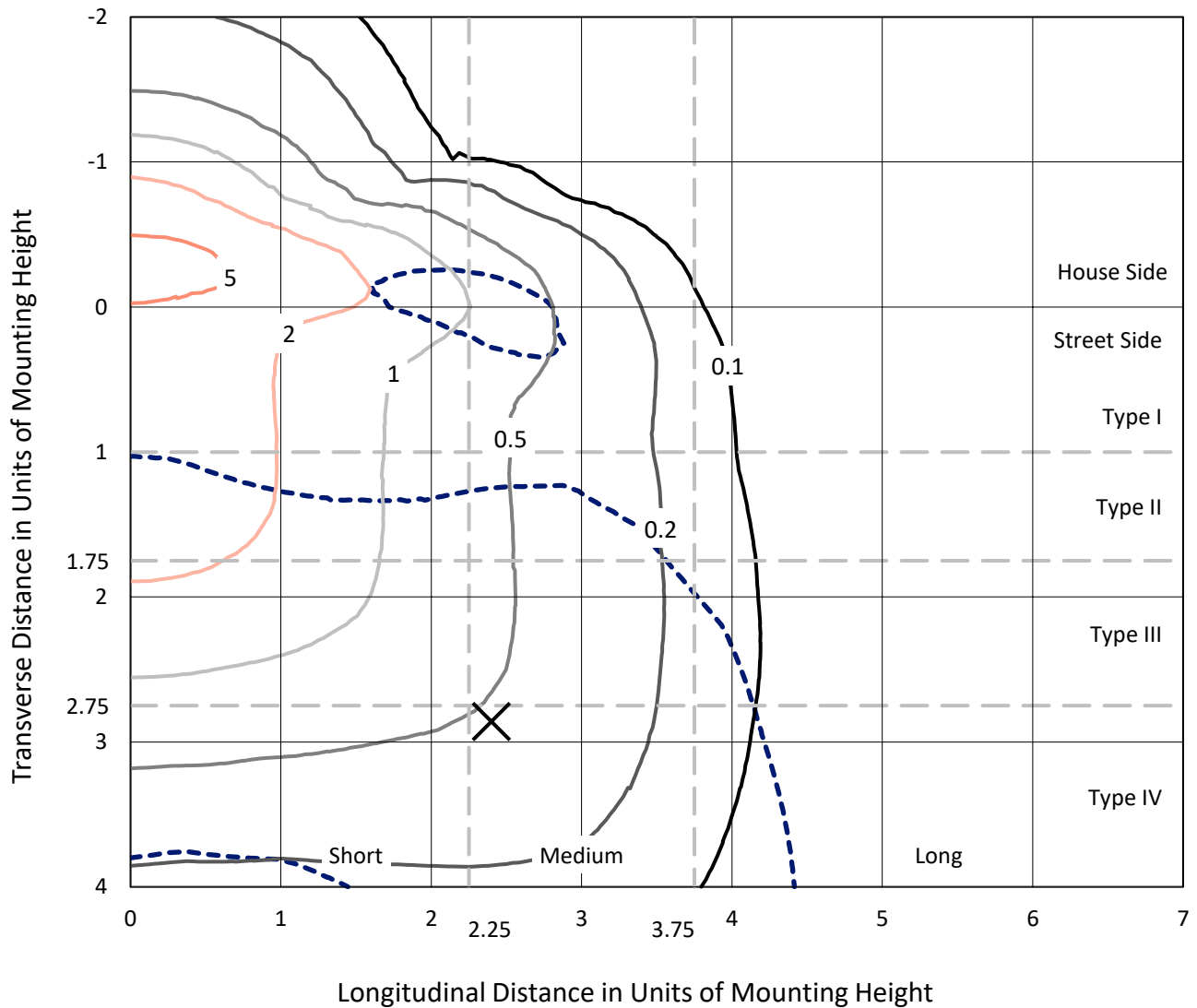
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

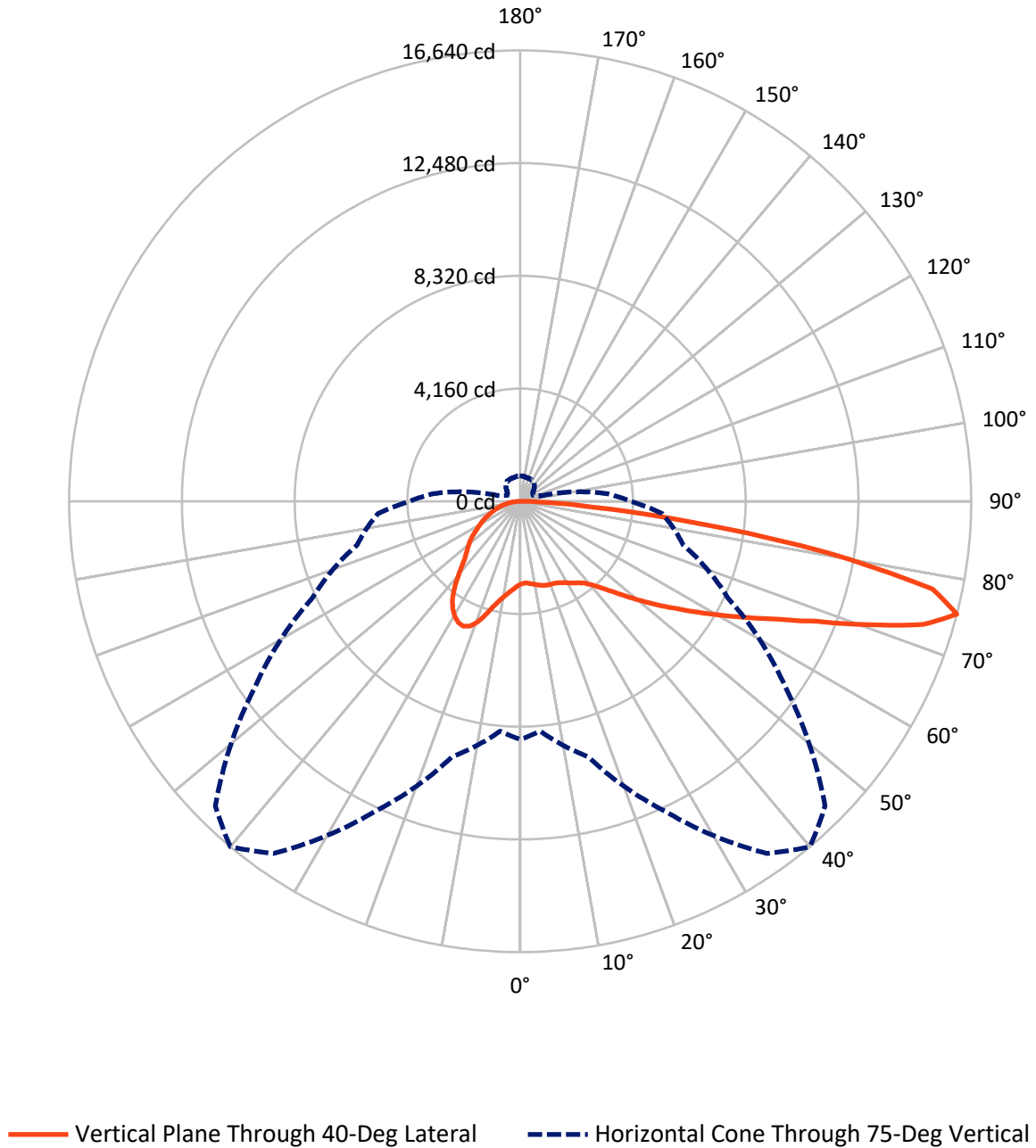
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8283.1	0.0	8283.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	18450.9	0.0	18450.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	26734.0	0.0	26734.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.2	1.1
10°-20°	1024.5	3.8
20°-30°	1870.7	7.0
30°-40°	2653.2	9.9
40°-50°	3582.6	13.4
50°-60°	4819.6	18.0
60°-70°	6117.2	22.9
70°-80°	5551.7	20.8
80°-90°	809.3	3.0
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°	26734.0	100.0
0°-180°	26734.0	100.0

Coefficient of Utilization



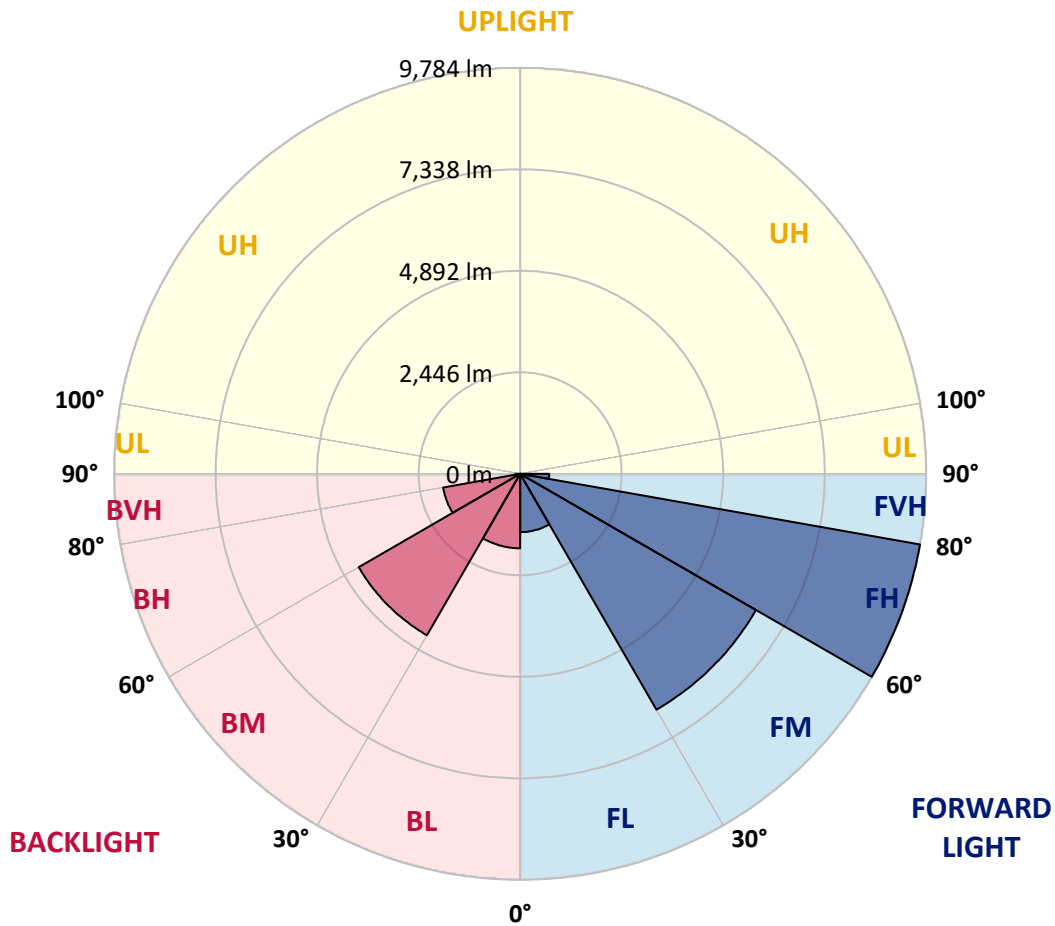
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1406.2	5.3			
FM (30°-60°)	6562.6	24.5			
FH (60°-80°)	9784.2	36.6			G4/12000
FVH (80°-90°)	697.8	2.6			G4/750
BL (0°-30°)	1794.2	6.7	B3/2500		
BM (30°-60°)	4492.8	16.8	B3/5000		
BH (60°-80°)	1884.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	111.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3057.1	3057.1	3057.1	3057.1	3057.1	3057.1	3057.1	3057.1	3057.1	3057.1
2.5°	3010.3	3027.3	3023.0	3017.4	3017.4	3018.8	3017.4	3027.3	3037.2	3047.1
5°	3041.5	3058.5	3050.0	3042.9	3037.2	3035.8	3031.5	3030.1	3035.8	3048.6
7.5°	3102.4	3119.5	3106.7	3093.9	3082.6	3076.9	3071.2	3062.7	3058.5	3065.6
10°	3170.5	3187.5	3171.9	3149.2	3130.8	3123.7	3118.0	3109.5	3103.9	3108.1
12.5°	3238.6	3255.6	3234.3	3203.1	3179.0	3174.8	3167.7	3164.8	3163.4	3162.0
15°	3302.4	3316.6	3289.6	3252.7	3227.2	3220.1	3213.0	3217.3	3224.4	3232.9
17.5°	3352.0	3366.2	3326.5	3278.3	3254.2	3251.3	3247.1	3261.3	3281.1	3302.4
20°	3397.4	3411.6	3360.5	3295.3	3266.9	3266.9	3268.3	3298.1	3326.5	3357.7
22.5°	3461.2	3472.5	3410.1	3320.8	3279.7	3282.5	3293.9	3323.6	3359.1	3401.6
25°	3556.2	3564.7	3488.1	3369.0	3322.2	3330.7	3340.7	3354.8	3388.9	3438.5
27.5°	3709.3	3716.4	3615.7	3454.1	3383.2	3397.4	3411.6	3401.6	3417.2	3459.8
30°	3924.8	3929.1	3801.5	3587.4	3486.7	3493.8	3496.6	3455.5	3425.7	3459.8
32.5°	4180.1	4178.7	4026.9	3749.0	3604.4	3597.3	3573.2	3492.4	3422.9	3452.7
35°	4575.7	4560.1	4364.4	3975.9	3737.7	3693.7	3637.0	3533.5	3437.1	3445.6
37.5°	5230.8	5182.6	4911.7	4347.4	3936.2	3824.2	3740.5	3600.1	3468.3	3442.7
40°	5969.5	5908.5	5610.8	4856.4	4234.0	4053.9	3919.2	3695.1	3519.3	3455.5
42.5°	6845.8	6759.3	6438.8	5456.2	4611.1	4350.2	4147.5	3815.7	3594.5	3496.6
45°	7922.0	7807.2	7353.4	6132.6	5086.1	4738.7	4467.9	3998.6	3709.3	3576.0
47.5°	9009.6	9037.9	8392.8	6906.8	5656.1	5218.0	4869.2	4273.7	3876.6	3703.6
50°	10165.2	10185.0	9426.4	7764.6	6302.7	5759.7	5320.1	4581.3	4109.2	3885.1
52.5°	11067.0	11069.8	10365.1	8662.2	6976.2	6355.2	5806.4	4933.0	4378.6	4126.2
55°	11631.3	11624.2	11023.0	9511.5	7750.4	6980.5	6345.3	5332.9	4707.5	4409.8
57.5°	12041.1	12019.8	11476.8	10241.7	8575.7	7719.2	6955.0	5786.6	5096.1	4747.2
60°	12197.1	12184.3	11784.5	10872.7	9443.4	8536.0	7658.3	6294.2	5537.0	5145.7
62.5°	12256.6	12280.7	12086.5	11483.9	10372.2	9440.6	8431.0	6901.1	6033.3	5596.6
65°	12466.5	12510.4	12470.7	12283.6	11421.5	10499.8	9456.2	7622.8	6575.0	6080.1
67.5°	12881.9	12925.9	12942.9	13240.7	12703.3	11819.9	10735.2	8521.8	7208.8	6582.1
70°	12872.0	12859.3	13159.9	14002.1	14308.4	13647.6	12459.4	9627.8	7964.5	6998.9
72.5°	11716.4	11614.3	12324.7	13993.6	15644.1	15556.2	14565.0	11054.2	8616.8	7050.0
75°	8789.8	8517.5	9772.4	12611.1	15866.7	16639.5	15903.6	11939.0	8462.2	6229.0
77.5°	3758.9	3485.3	4964.2	9335.7	14200.6	15554.8	14675.6	10416.2	6755.0	4119.1
80°	984.0	982.6	1500.2	4232.5	9657.6	11486.7	10077.3	6726.7	3859.6	1471.8
82.5°	406.9	397.0	551.6	1646.2	4718.9	6445.9	5260.5	3000.4	1393.8	398.4
85°	151.7	150.3	268.0	568.6	1664.7	2658.6	1924.1	767.1	347.4	194.3
87.5°	42.5	41.1	58.1	197.1	405.5	615.4	329.0	126.2	97.8	76.6
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°
3057.1	0°	3057.1	3057.1	3057.1	3057.1	3057.1	3057.1	3057.1	3057.1	3057.1	3057.1
3062.7	2.5°	3067.0	3074.1	3086.8	3096.8	3109.5	3123.7	3143.6	3156.3	3169.1	3177.6
3069.8	5°	3079.8	3095.4	3128.0	3160.6	3198.9	3234.3	3275.4	3305.2	3329.3	3336.4
3095.4	7.5°	3108.1	3133.6	3188.9	3244.2	3305.2	3363.3	3422.9	3473.9	3515.1	3530.7
3140.7	10°	3157.7	3191.8	3269.8	3347.7	3428.6	3517.9	3594.5	3668.2	3726.3	3750.4
3194.6	12.5°	3220.1	3262.7	3364.8	3472.5	3584.5	3707.9	3807.2	3897.9	3970.2	4002.8
3269.8	15°	3301.0	3356.3	3486.7	3631.3	3795.8	3967.4	4093.6	4194.3	4275.1	4314.8
3347.7	17.5°	3388.9	3462.6	3627.1	3845.4	4080.8	4306.3	4453.7	4527.5	4611.1	4649.4
3420.1	20°	3473.9	3564.7	3800.1	4117.7	4431.0	4670.7	4789.8	4809.6	4815.3	4819.6
3488.1	22.5°	3561.9	3683.8	4017.0	4460.8	4796.9	4962.8	4979.8	4894.7	4775.6	4720.3
3554.8	25°	3658.3	3819.9	4300.6	4839.4	5111.7	5131.5	5001.1	4794.0	4568.6	4465.1
3608.6	27.5°	3751.9	3977.3	4640.9	5201.0	5338.5	5164.1	4883.4	4589.9	4317.6	4208.4
3646.9	30°	3845.4	4157.4	5016.7	5517.2	5442.0	5083.3	4697.6	4370.1	4096.4	3981.6
3681.0	32.5°	3940.4	4367.2	5449.1	5745.5	5423.6	4911.7	4466.5	4123.4	3882.3	3761.8
3710.7	35°	4048.2	4625.3	5858.9	5870.3	5300.2	4659.3	4161.6	3828.4	3618.6	3522.2
3746.2	37.5°	4188.6	4952.8	6220.5	5901.4	5084.7	4289.3	3783.1	3479.6	3306.6	3262.7
3798.6	40°	4363.0	5347.0	6497.0	5851.8	4765.7	3839.8	3369.0	3126.5	3028.7	3038.6
3869.5	42.5°	4589.9	5788.0	6691.2	5724.2	4321.9	3376.1	3006.0	2898.3	2945.1	2984.8
3975.9	45°	4884.8	6246.0	6811.8	5507.3	3819.9	2983.3	2791.9	2817.4	2852.9	2857.1
4147.5	47.5°	5262.0	6709.7	6891.2	5179.7	3308.0	2706.8	2655.8	2661.5	2654.4	2624.6
4404.1	50°	5732.7	7160.6	6962.1	4745.8	2872.7	2533.9	2465.8	2445.9	2348.1	2251.7
4745.8	52.5°	6268.7	7574.6	6991.8	4207.0	2533.9	2389.2	2278.6	2153.8	1970.9	1941.2
5175.5	55°	6864.2	7957.5	6915.3	3544.8	2248.8	2203.5	2036.2	1885.9	1866.0	1840.5
5741.2	57.5°	7576.0	8370.1	6759.3	2806.1	1956.8	1986.5	1823.5	1840.5	1805.0	1765.3
6468.6	60°	8354.5	8796.9	6485.6	2132.6	1654.7	1715.7	1768.2	1766.7	1756.8	1724.2
7235.7	62.5°	9054.9	9077.6	5946.8	1633.5	1389.6	1505.8	1649.1	1647.6	1639.1	1620.7
8036.9	65°	9471.8	9035.1	5047.8	1286.1	1171.2	1332.9	1487.4	1498.8	1500.2	1498.8
8639.5	67.5°	9398.1	8537.4	3814.2	1023.7	991.1	1157.0	1327.2	1342.8	1354.1	1357.0
8716.0	70°	8564.3	7444.2	2487.1	816.7	830.9	1002.5	1175.5	1191.1	1201.0	1212.3
7563.3	72.5°	6675.6	5473.2	1423.6	660.8	690.5	869.2	1025.2	1043.6	1049.3	1070.5
5263.4	75°	4068.1	3218.7	768.5	520.4	567.2	743.0	876.3	897.6	907.5	933.0
2584.9	77.5°	1934.1	1393.8	438.1	405.5	456.6	606.9	740.2	764.3	737.3	751.5
713.2	80°	653.7	517.5	276.5	309.1	348.8	473.6	592.7	616.8	560.1	557.2
236.8	82.5°	228.3	209.9	175.8	205.6	225.5	338.9	448.1	479.3	416.9	415.5
106.3	85°	89.3	85.1	97.8	112.0	134.7	208.4	294.9	310.5	256.6	207.0
31.2	87.5°	18.4	19.9	24.1	25.5	41.1	72.3	106.3	130.5	103.5	87.9
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>
3057.1
3171.9
3339.2
3532.1
3751.9
4002.8
4311.9
4648.0
4830.9
4735.9
4480.7
4221.2
3994.3
3777.4
3543.4
3293.9
3072.7
3021.6
2885.5
2647.3
2264.4
1951.1
1844.7
1758.2
1712.9
1613.6
1498.8
1359.8
1218.0
1079.0
935.8
740.2
551.6
395.6
204.2
80.8
0.0

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