

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: P944132

Luminaire Tested: **GALN-SB8D-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944132
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-SB8D-940-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59106 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

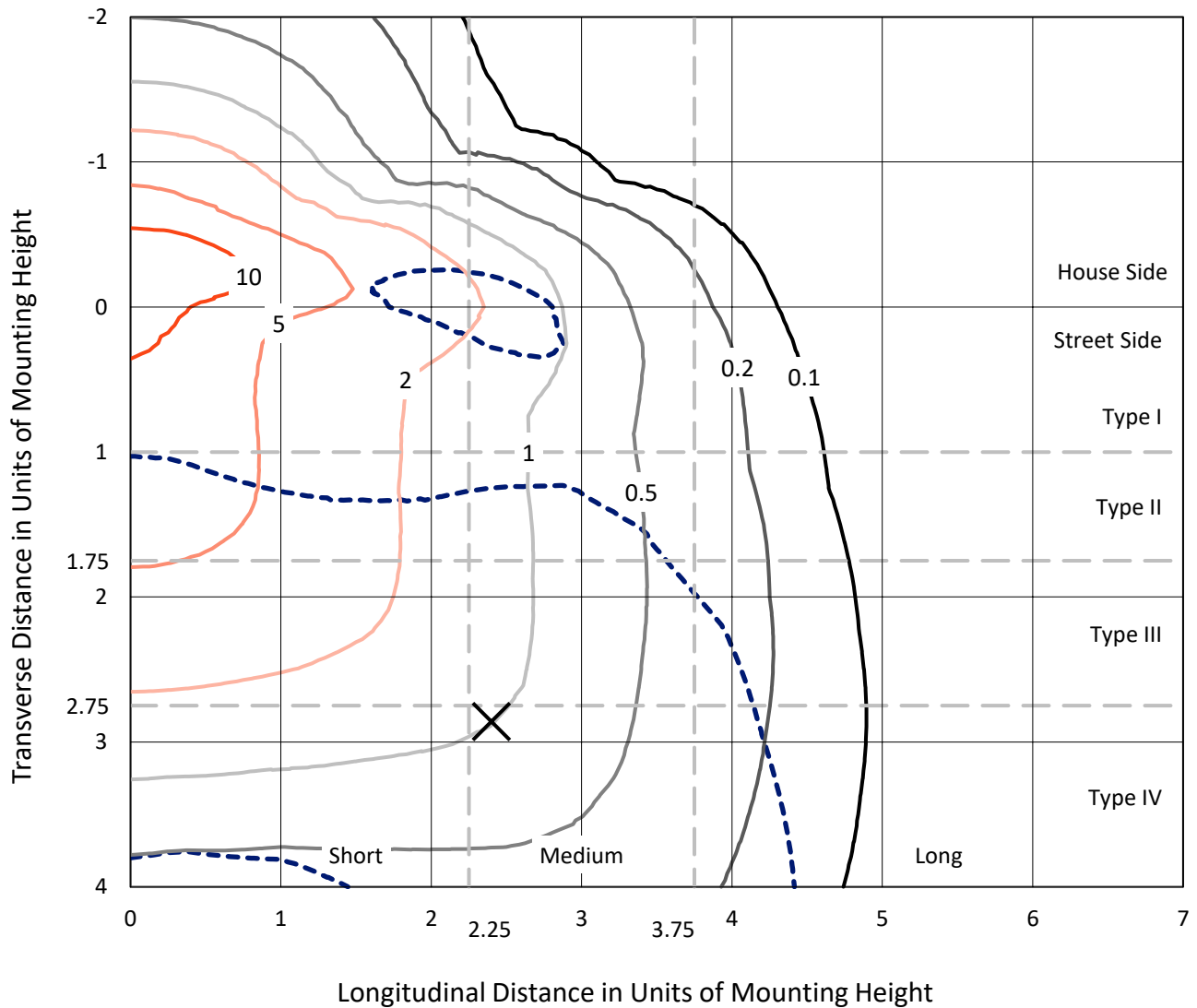
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944132
 CATALOG NUMBER: GALN-SB8D-940-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

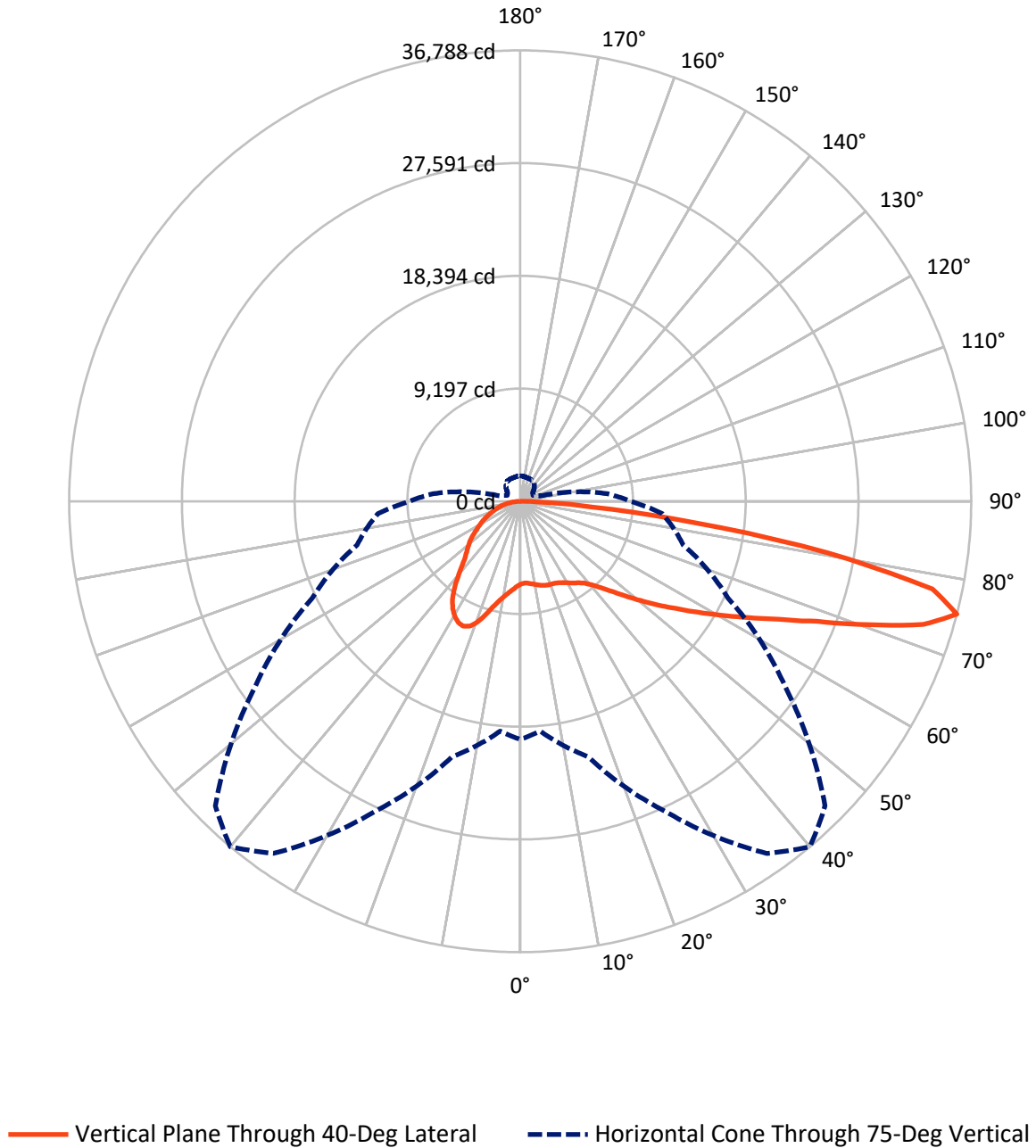
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type IV - Medium - N/A

REPORT NUMBER: P944132
CATALOG NUMBER: GALN-SB8D-940-U-SL4

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18313.0	0.0	18313.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	40793.0	0.0	40793.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	59106.0	0.0	59106.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	674.7	1.1
10°-20°	2265.2	3.8
20°-30°	4136.0	7.0
30°-40°	5866.0	9.9
40°-50°	7920.8	13.4
50°-60°	10655.6	18.0
60°-70°	13524.4	22.9
70°-80°	12274.2	20.8
80°-90°	1789.2	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°	59106.0	100.0
0°-180°	59106.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944132

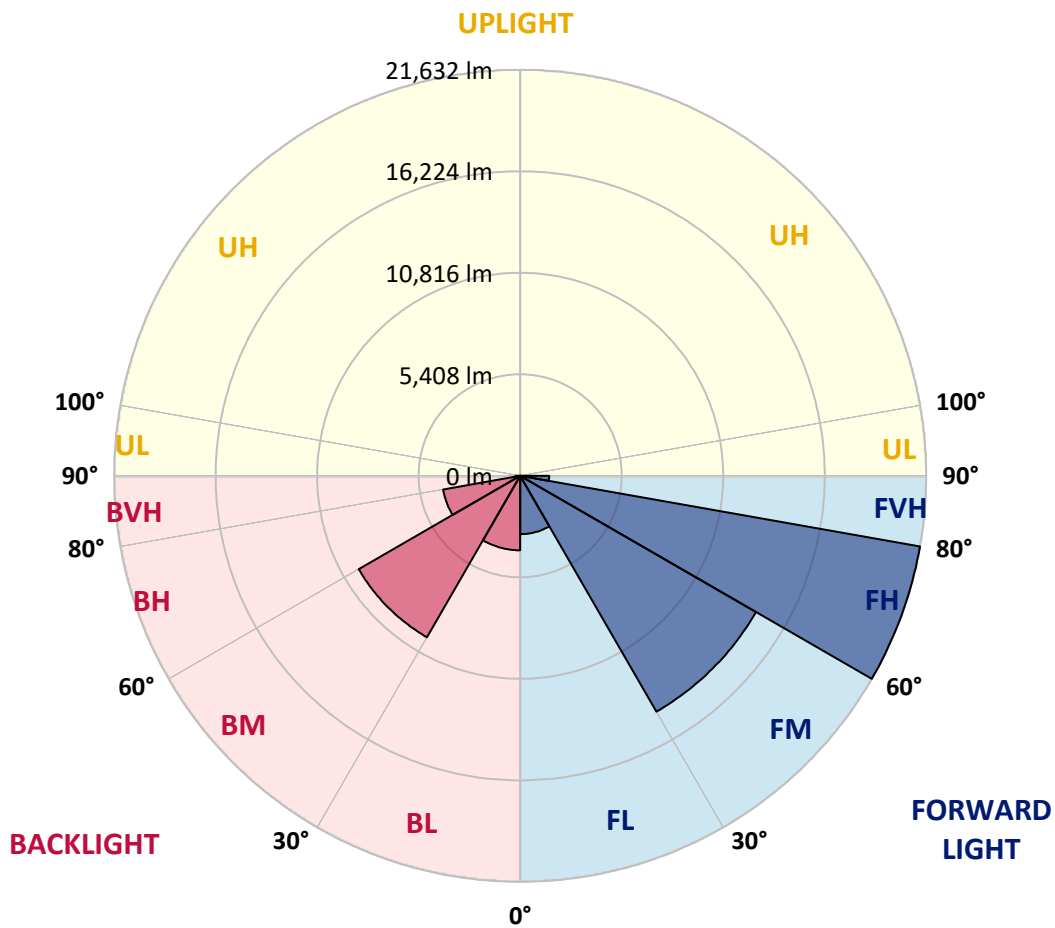
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3109.0	5.3			
FM (30°-60°)	14509.2	24.5			
FH (60°-80°)	21631.9	36.6			G5
FVH (80°-90°)	1542.9	2.6			G5
BL (0°-30°)	3966.8	6.7	B4/5000		
BM (30°-60°)	9933.2	16.8	B5		
BH (60°-80°)	4166.8	7.0	B4/5000		G4/5000
BVH (80°-90°)	246.3	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



REPORT NUMBER: P944132
 CATALOG NUMBER: GALN-SB8D-940-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	6758.8	6758.8	6758.8	6758.8	6758.8	6758.8	6758.8	6758.8	6758.8	6758.8
2.5°	6655.4	6693.0	6683.6	6671.1	6671.1	6674.2	6671.1	6693.0	6715.0	6736.9
5°	6724.4	6762.0	6743.2	6727.5	6715.0	6711.8	6702.4	6699.3	6711.8	6740.0
7.5°	6859.2	6896.8	6868.6	6840.4	6815.3	6802.7	6790.2	6771.4	6762.0	6777.7
10°	7009.6	7047.3	7012.8	6962.6	6921.9	6906.2	6893.7	6874.8	6862.3	6871.7
12.5°	7160.1	7197.7	7150.7	7081.7	7028.5	7019.0	7003.4	6997.1	6994.0	6990.8
15°	7301.2	7332.5	7273.0	7191.5	7135.0	7119.4	7103.7	7113.1	7128.8	7147.6
17.5°	7410.9	7442.3	7354.5	7247.9	7194.6	7188.3	7178.9	7210.3	7254.2	7301.2
20°	7511.2	7542.6	7429.7	7285.5	7222.8	7222.8	7226.0	7291.8	7354.5	7423.4
22.5°	7652.3	7677.4	7539.4	7341.9	7251.0	7257.3	7282.4	7348.2	7426.6	7520.6
25°	7862.3	7881.1	7711.9	7448.5	7345.1	7363.9	7385.8	7417.2	7492.4	7602.1
27.5°	8200.9	8216.6	7994.0	7636.6	7479.9	7511.2	7542.6	7520.6	7555.1	7649.2
30°	8677.4	8686.8	8404.7	7931.3	7708.7	7724.4	7730.7	7639.8	7573.9	7649.2
32.5°	9241.7	9238.6	8903.1	8288.7	7968.9	7953.2	7900.0	7721.3	7567.7	7633.5
35°	10116.3	10081.8	9649.2	8790.3	8263.6	8166.4	8041.0	7812.2	7599.0	7617.8
37.5°	11564.7	11458.1	10859.3	9611.6	8702.5	8454.8	8269.9	7959.5	7668.0	7611.5
40°	13197.9	13063.1	12404.8	10737.0	9360.8	8962.7	8664.9	8169.6	7780.8	7639.8
42.5°	15135.3	14944.1	14235.6	12063.1	10194.7	9617.9	9169.6	8436.0	7947.0	7730.7
45°	17514.7	17260.8	16257.6	13558.5	11244.9	10476.8	9878.1	8840.4	8200.9	7906.2
47.5°	19919.2	19981.9	18555.5	15270.1	12505.1	11536.4	10765.3	9448.6	8570.8	8188.4
50°	22474.1	22518.0	20840.8	17166.7	13934.6	12734.0	11762.2	10128.9	9084.9	8589.6
52.5°	24467.9	24474.2	22916.1	19151.1	15423.7	14050.6	12837.4	10906.3	9680.6	9122.6
55°	25715.6	25699.9	24370.7	21028.9	17135.4	15433.1	14028.7	11790.4	10407.9	9749.5
57.5°	26621.6	26574.6	25373.9	22643.4	18959.9	17066.4	15376.7	12793.5	11266.8	10495.7
60°	26966.4	26938.2	26054.2	24038.4	20878.5	18872.1	16931.6	13915.8	12241.8	11376.6
62.5°	27098.1	27151.4	26721.9	25389.6	22931.8	20872.2	18640.1	15257.6	13339.0	12373.5
65°	27562.1	27659.2	27571.5	27157.7	25251.6	23214.0	20906.7	16853.2	14536.5	13442.5
67.5°	28480.6	28577.8	28615.4	29273.7	28085.6	26132.5	23734.3	18840.8	15937.8	14552.2
70°	28458.6	28430.4	29095.0	30957.2	31634.3	30173.4	27546.4	21286.0	17608.7	15473.9
72.5°	25903.7	25678.0	27248.6	30938.4	34587.4	34393.0	32201.7	24439.7	19050.8	15586.7
75°	19433.3	18831.4	21605.7	27881.8	35079.6	36788.1	35161.1	26395.9	18709.1	13771.6
77.5°	8310.6	7705.6	10975.3	20640.2	31396.0	34389.9	32446.2	23029.0	14934.7	9106.9
80°	2175.6	2172.5	3316.7	9357.7	21351.8	25395.8	22279.8	14872.0	8533.2	3254.0
82.5°	899.7	877.8	1219.5	3639.6	10433.0	14251.3	11630.5	6633.5	3081.6	880.9
85°	335.4	332.3	592.5	1257.1	3680.4	5877.9	4254.1	1696.0	768.1	429.5
87.5°	94.0	90.9	128.5	435.8	896.6	1360.5	727.3	279.0	216.3	169.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944132
 CATALOG NUMBER: GALN-SB8D-940-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6758.8	0°	6758.8	6758.8	6758.8	6758.8	6758.8	6758.8	6758.8	6758.8	6758.8	6758.8
6771.4	2.5°	6780.8	6796.5	6824.7	6846.6	6874.8	6906.2	6950.1	6978.3	7006.5	7025.3
6787.1	5°	6809.0	6843.5	6915.6	6987.7	7072.3	7150.7	7241.6	7307.5	7360.8	7376.4
6843.5	7.5°	6871.7	6928.1	7050.4	7172.7	7307.5	7436.0	7567.7	7680.5	7771.4	7805.9
6943.8	10°	6981.4	7056.7	7229.1	7401.5	7580.2	7777.7	7947.0	8110.0	8238.5	8291.8
7062.9	12.5°	7119.4	7213.4	7439.1	7677.4	7925.0	8197.8	8417.2	8617.8	8777.7	8849.8
7229.1	15°	7298.1	7420.3	7708.7	8028.5	8392.1	8771.5	9050.5	9273.0	9451.7	9539.5
7401.5	17.5°	7492.4	7655.4	8019.1	8501.9	9022.2	9520.7	9846.7	10009.7	10194.7	10279.3
7561.4	20°	7680.5	7881.1	8401.5	9103.8	9796.6	10326.4	10589.7	10633.6	10646.1	10655.5
7711.9	22.5°	7874.9	8144.5	8881.2	9862.4	10605.4	10972.2	11009.8	10821.7	10558.4	10436.1
7859.2	25°	8088.0	8445.4	9508.2	10699.4	11301.3	11345.2	11056.8	10599.1	10100.7	9871.8
7978.3	27.5°	8295.0	8793.4	10260.5	11498.8	11802.9	11417.3	10796.6	10147.7	9545.8	9304.4
8063.0	30°	8501.9	9191.5	11091.3	12197.9	12031.8	11238.6	10385.9	9661.8	9056.7	8802.8
8138.2	32.5°	8711.9	9655.5	12047.4	12702.6	11991.0	10859.3	9874.9	9116.3	8583.4	8316.9
8204.0	35°	8950.1	10226.1	12953.4	12978.5	11718.3	10301.3	9200.9	8464.2	8000.3	7787.1
8282.4	37.5°	9260.5	10950.2	13752.8	13047.5	11241.8	9483.1	8363.9	7693.1	7310.6	7213.4
8398.4	40°	9646.1	11821.7	14364.1	12937.7	10536.4	8489.3	7448.5	6912.5	6696.2	6718.1
8555.1	42.5°	10147.7	12796.7	14793.6	12655.6	9555.2	7464.2	6646.0	6407.7	6511.2	6599.0
8790.3	45°	10799.7	13809.2	15060.1	12176.0	8445.4	6595.8	6172.6	6229.1	6307.4	6316.8
9169.6	47.5°	11633.6	14834.4	15235.6	11451.8	7313.7	5984.5	5871.7	5884.2	5868.5	5802.7
9737.0	50°	12674.4	15831.3	15392.4	10492.5	6351.3	5602.1	5451.6	5407.7	5191.4	4978.2
10492.5	52.5°	13859.4	16746.6	15458.2	9301.3	5602.1	5282.3	5037.8	4761.9	4357.5	4291.7
11442.4	55°	15176.1	17593.1	15288.9	7837.3	4972.0	4871.6	4501.7	4169.4	4125.5	4069.1
12693.2	57.5°	16749.8	18505.3	14944.1	6204.0	4326.2	4392.0	4031.5	4069.1	3990.7	3903.0
14301.4	60°	18470.8	19448.9	14339.0	4714.9	3658.4	3793.2	3909.2	3906.1	3884.1	3812.0
15997.4	62.5°	20019.5	20069.6	13147.8	3611.4	3072.2	3329.3	3645.9	3642.8	3623.9	3583.2
17768.6	65°	20941.1	19975.6	11160.3	2843.4	2589.4	2946.8	3288.5	3313.6	3316.7	3313.6
19101.0	67.5°	20778.1	18875.2	8432.9	2263.4	2191.3	2558.1	2934.3	2968.8	2993.8	3000.1
19270.2	70°	18934.8	16458.2	5498.6	1805.7	1837.1	2216.4	2598.8	2633.3	2655.3	2680.3
16721.6	72.5°	14759.1	12100.7	3147.4	1460.9	1526.7	1921.7	2266.5	2307.3	2319.8	2366.9
11636.8	75°	8994.0	7116.2	1699.1	1150.5	1254.0	1642.7	1937.4	1984.4	2006.3	2062.8
5714.9	77.5°	4276.0	3081.6	968.7	896.6	1009.4	1341.7	1636.4	1689.7	1630.1	1661.5
1576.9	80°	1445.2	1144.2	611.3	683.4	771.2	1047.1	1310.4	1363.7	1238.3	1232.0
523.5	82.5°	504.7	464.0	388.7	454.6	498.4	749.2	990.6	1059.6	921.7	918.5
235.1	85°	197.5	188.1	216.3	247.7	297.8	460.8	652.1	686.5	567.4	457.7
69.0	87.5°	40.8	43.9	53.3	56.4	90.9	159.9	235.1	288.4	228.8	194.4
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>
6758.8
7012.8
7382.7
7809.0
8295.0
8849.8
9533.2
10276.2
10680.6
10470.6
9906.3
9332.6
8831.0
8351.4
7834.1
7282.4
6793.3
6680.5
6379.5
5852.9
5006.4
4313.6
4078.5
3887.3
3787.0
3567.5
3313.6
3006.4
2692.9
2385.7
2069.0
1636.4
1219.5
874.6
451.4
178.7
0.0

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