

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: P957135

Luminaire Tested: **GALN-SB9C-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-827-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59200 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

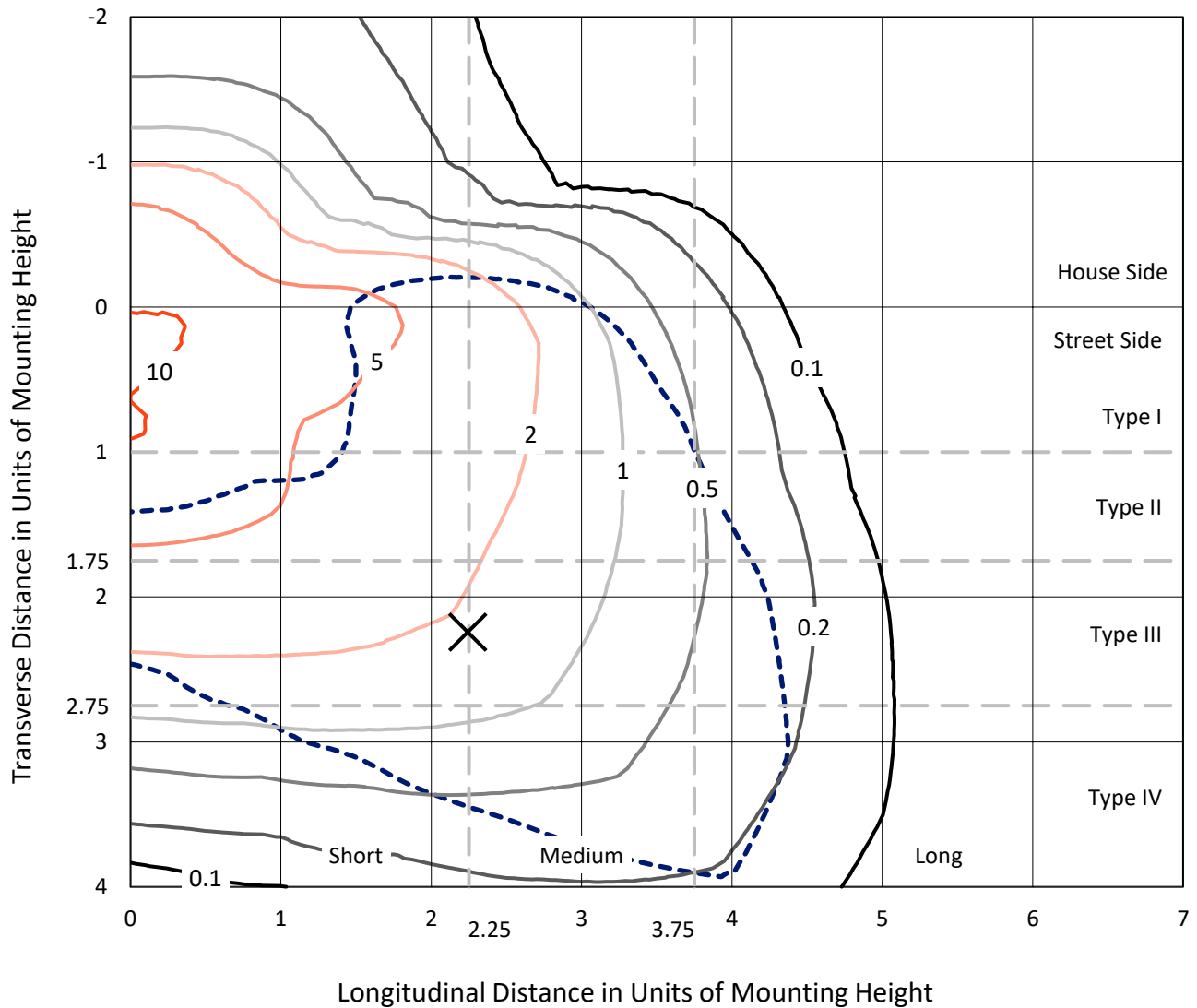
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

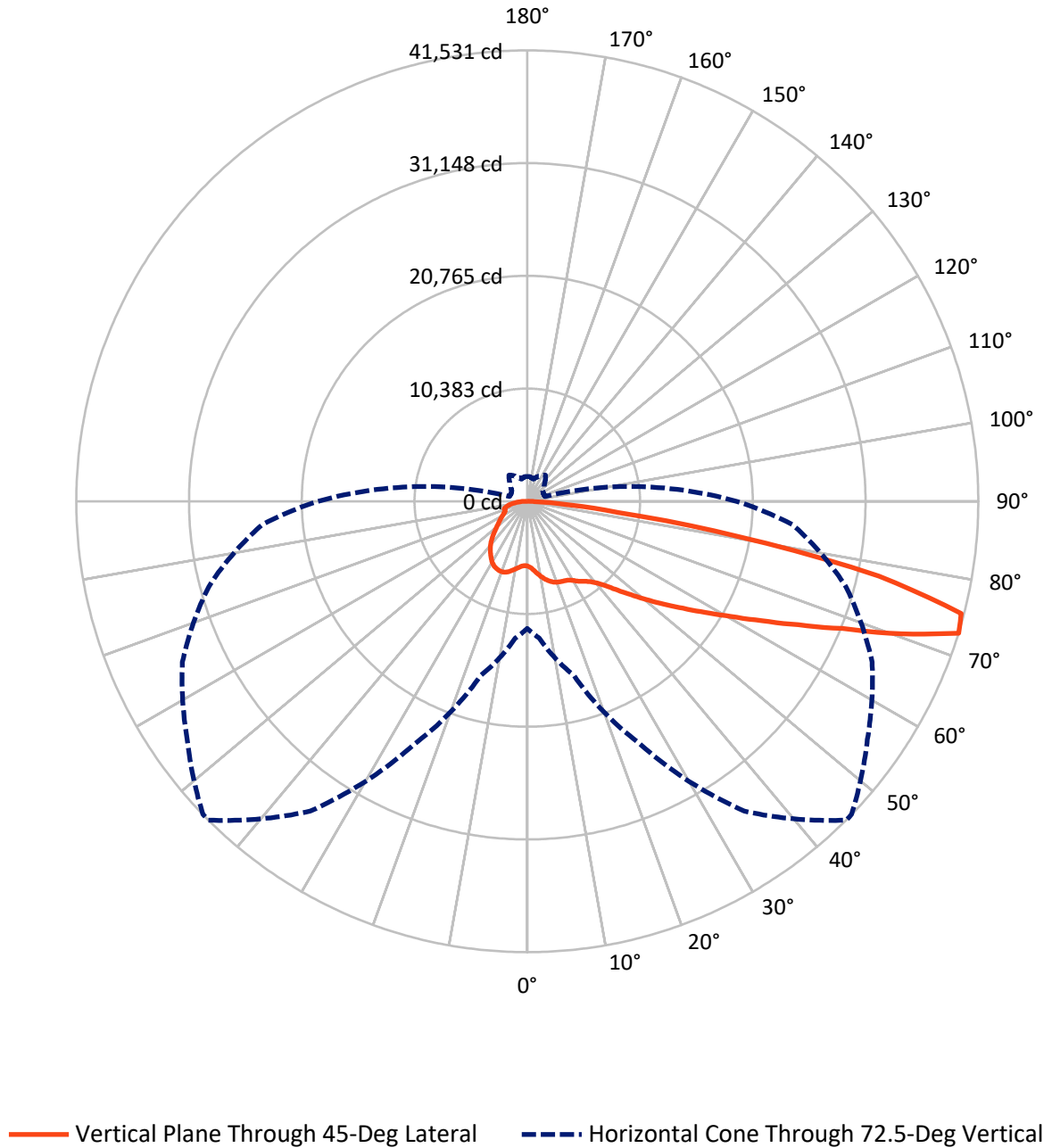
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	13383.1	0.0	13383.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	45816.9	0.0	45816.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	59200.0	0.0	59200.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.8	1.0
10°-20°	2026.6	3.4
20°-30°	3525.4	6.0
30°-40°	5053.9	8.5
40°-50°	7116.2	12.0
50°-60°	10899.9	18.4
60°-70°	15790.2	26.7
70°-80°	12609.4	21.3
80°-90°	1570.4	2.7
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°	59200.0	100.0
0°-180°	59200.0	100.0

Coefficient of Utilization



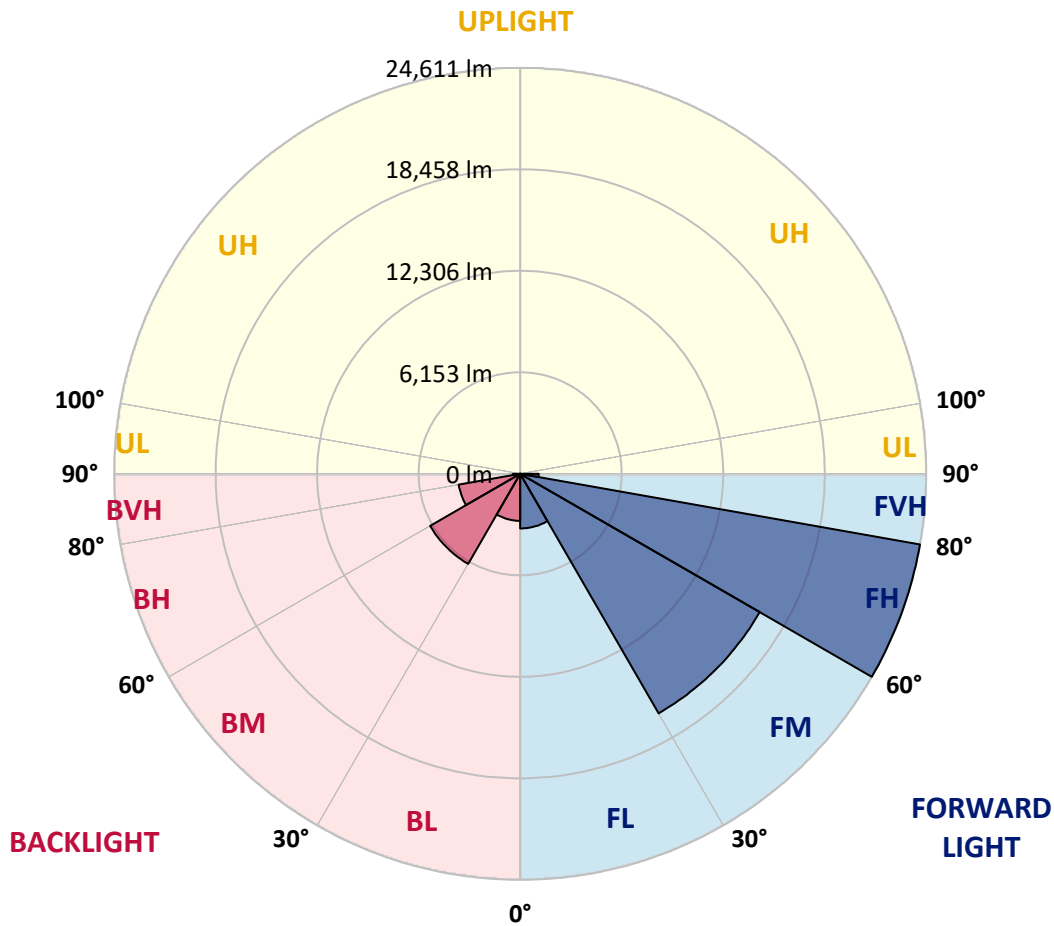
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3310.6	5.6			
FM (30°-60°)	16768.5	28.3			
FH (60°-80°)	24611.2	41.6			G5
FVH (80°-90°)	1126.7	1.9			G5
BL (0°-30°)	2849.4	4.8	B4/5000		
BM (30°-60°)	6301.5	10.6	B4/8500		
BH (60°-80°)	3788.4	6.4	B4/5000		G4/5000
BVH (80°-90°)	443.8	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	5972.1	5972.1	5972.1	5972.1	5972.1	5972.1	5972.1	5972.1	5972.1	5972.1
2.5°	6206.0	6246.6	6209.1	6174.8	6159.2	6118.7	6115.6	6090.6	6075.0	6031.4
5°	6639.5	6692.5	6630.2	6561.5	6499.2	6399.4	6386.9	6315.2	6234.1	6140.5
7.5°	7129.1	7175.9	7104.2	7001.3	6892.1	6726.8	6723.7	6592.7	6464.9	6305.8
10°	7556.4	7618.8	7522.1	7381.7	7244.5	7057.4	7035.6	6885.9	6723.7	6517.9
12.5°	7933.7	7977.4	7883.8	7712.3	7553.3	7366.1	7338.1	7172.8	6991.9	6758.0
15°	8233.1	8289.3	8164.5	7980.5	7812.1	7628.1	7603.2	7453.5	7272.6	7026.2
17.5°	8429.6	8476.4	8348.5	8142.7	7980.5	7827.7	7809.0	7684.2	7525.2	7275.7
20°	8504.4	8554.3	8420.2	8211.3	8061.6	7943.1	7933.7	7843.3	7734.1	7506.5
22.5°	8579.3	8626.1	8451.4	8233.1	8102.1	8027.3	8024.2	7964.9	7921.3	7734.1
25°	8881.8	8894.3	8660.4	8345.4	8158.3	8092.8	8089.7	8086.5	8105.3	7958.7
27.5°	9143.7	9140.6	8941.0	8644.8	8354.7	8217.5	8214.4	8245.6	8304.8	8183.2
30°	9527.3	9493.0	9256.0	8947.3	8682.2	8470.1	8451.4	8423.4	8470.1	8373.5
32.5°	10341.3	10232.1	9848.6	9299.7	8953.5	8791.3	8766.4	8591.8	8610.5	8551.2
35°	11507.7	11364.2	10852.7	9967.1	9290.3	9059.5	9047.1	8825.7	8788.2	8735.2
37.5°	12895.4	12717.7	12122.0	10933.8	9870.4	9371.4	9352.7	9153.1	9000.3	8944.2
40°	14289.4	14064.9	13572.2	12112.7	10724.9	9892.2	9833.0	9530.5	9355.8	9262.3
42.5°	15642.9	15455.8	15034.8	13434.9	11779.0	10653.2	10522.2	10004.5	9873.5	9786.2
45°	16840.5	16672.1	16363.3	14847.7	13013.9	11688.5	11560.7	10715.5	10675.0	10675.0
47.5°	17813.5	17776.0	17448.6	16288.5	14470.3	12867.4	12645.9	11704.1	11813.3	11981.7
50°	18892.5	18789.6	18440.3	17707.4	16182.4	14217.7	14036.8	12917.3	13325.8	13787.4
52.5°	19884.2	19940.4	19550.5	19185.7	18116.0	15724.0	15405.9	14348.7	15231.3	15995.3
55°	20904.0	20907.1	20798.0	20748.1	20143.1	17389.3	17040.1	16070.2	17473.5	18421.6
57.5°	21861.4	21867.7	22029.8	22469.5	22494.5	19310.4	18914.3	18184.6	19965.3	20932.1
60°	22715.9	22759.6	23202.4	24231.6	24562.1	21512.1	21137.9	20682.6	22541.3	23514.3
62.5°	23002.8	23161.9	24147.4	25610.0	26604.8	24212.8	23844.9	23573.5	25248.2	26152.6
65°	22516.3	22881.2	24786.7	26748.3	28706.8	27421.9	27057.0	26760.7	28061.2	28912.6
67.5°	21321.9	21792.8	24749.2	27942.7	31257.8	31282.7	30942.8	30247.3	31076.9	31404.3
70°	18175.2	18880.0	22569.3	28388.7	34186.1	36562.5	36235.1	34445.0	34086.3	32502.1
72.5°	11710.4	12658.4	16619.0	24718.1	34837.9	41530.5	41511.7	38234.1	35037.5	30369.0
75°	4272.5	4852.5	7721.7	15515.1	29243.2	41277.9	41399.5	37585.4	31984.4	23458.1
77.5°	1556.2	1702.8	2519.8	5962.8	17985.0	33119.6	33372.2	30047.8	22765.8	11772.7
80°	817.1	898.2	1291.1	2314.0	7706.1	19669.0	20065.1	17857.1	10699.9	3545.9
82.5°	452.2	489.6	723.5	1256.8	3471.0	8410.9	8647.9	7054.3	3764.2	1503.2
85°	243.3	258.8	339.9	686.1	1696.5	2915.9	2981.4	2108.2	1500.0	882.6
87.5°	71.7	87.3	112.3	218.3	664.3	654.9	670.5	417.9	592.5	446.0
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°
5972.1	0°	5972.1	5972.1	5972.1	5972.1	5972.1	5972.1	5972.1	5972.1	5972.1	5972.1
6018.9	2.5°	6000.2	5990.8	5956.5	5940.9	5922.2	5919.1	5934.7	5937.8	5940.9	5944.1
6087.5	5°	6056.3	6025.1	5994.0	5975.2	5981.5	5984.6	6015.8	6037.6	6053.2	6065.7
6215.4	7.5°	6165.5	6140.5	6087.5	6084.4	6093.8	6121.8	6162.4	6212.3	6240.3	6262.2
6380.7	10°	6327.6	6280.9	6218.5	6227.9	6246.6	6287.1	6371.3	6411.9	6458.6	6499.2
6583.4	12.5°	6492.9	6452.4	6380.7	6386.9	6418.1	6489.8	6570.9	6620.8	6652.0	6683.2
6801.7	15°	6708.1	6636.4	6558.4	6558.4	6614.6	6692.5	6729.9	6770.5	6789.2	6823.5
7035.6	17.5°	6929.5	6836.0	6733.1	6726.8	6795.4	6832.9	6854.7	6860.9	6867.2	6904.6
7263.2	20°	7151.0	7048.0	6901.5	6889.0	6904.6	6898.4	6895.2	6889.0	6898.4	6945.1
7497.1	22.5°	7369.3	7250.8	7048.0	6991.9	6948.3	6889.0	6885.9	6882.8	6889.0	6935.8
7749.7	25°	7625.0	7481.5	7210.2	7041.8	6895.2	6814.2	6823.5	6826.6	6832.9	6870.3
8011.7	27.5°	7902.5	7743.5	7359.9	7026.2	6761.1	6705.0	6689.4	6698.8	6720.6	6779.8
8273.7	30°	8180.1	7993.0	7497.1	6963.8	6592.7	6514.8	6464.9	6486.7	6555.3	6614.6
8501.3	32.5°	8432.7	8245.6	7606.3	6826.6	6377.5	6255.9	6190.4	6218.5	6287.1	6308.9
8753.9	35°	8729.0	8516.9	7653.1	6608.3	6143.7	5956.5	5869.2	5828.7	5863.0	5841.1
9050.2	37.5°	9059.5	8838.1	7646.8	6321.4	5869.2	5654.0	5532.4	5379.6	5307.9	5233.0
9486.8	40°	9549.2	9231.1	7572.0	5975.2	5529.3	5332.8	5114.5	4855.7	4693.5	4546.9
10191.6	42.5°	10216.5	9776.8	7434.8	5594.8	5145.7	4961.7	4665.4	4362.9	4107.2	3864.0
11261.3	45°	11211.4	10491.0	7263.2	5189.4	4730.9	4550.0	4228.8	3888.9	3598.9	3287.0
12780.0	47.5°	12645.9	11451.5	7101.1	4727.8	4294.3	4129.0	3839.0	3524.0	3181.0	2878.5
14975.5	50°	14616.9	12829.9	6951.4	4278.7	3864.0	3739.2	3508.4	3187.2	2841.0	2597.8
17548.4	52.5°	17124.3	14704.2	6889.0	3845.2	3461.7	3414.9	3230.9	2931.5	2604.0	2398.2
20548.5	55°	20002.7	16946.5	6889.0	3430.5	3109.2	3124.8	2997.0	2719.4	2435.6	2251.6
23642.1	57.5°	22940.5	19216.8	6764.3	3046.9	2809.9	2875.4	2794.3	2551.0	2295.3	2105.1
26894.8	60°	25647.4	21119.2	6259.0	2697.6	2544.8	2647.7	2594.7	2385.7	2073.9	1914.8
29614.3	62.5°	27727.5	22192.0	5286.0	2420.0	2326.5	2445.0	2416.9	2167.4	2033.3	1967.8
31847.2	65°	28769.1	22017.3	4041.7	2173.7	2142.5	2326.5	2267.2	2257.9	2151.8	2077.0
32573.8	67.5°	28129.8	20514.2	2931.5	1992.8	2036.4	2217.3	2445.0	2482.4	2285.9	2139.4
30528.0	70°	25326.2	17794.8	2183.0	1821.3	1902.3	2220.4	2788.0	2597.8	2242.3	2070.8
24484.2	72.5°	19266.7	13269.7	1693.4	1640.4	1727.7	2236.0	2940.8	2544.8	2117.5	2289.1
15253.1	75°	11018.0	7285.1	1359.7	1419.0	1509.4	2089.5	2862.9	2407.6	2020.9	2101.9
6043.9	77.5°	4200.8	2800.5	1122.7	1200.7	1213.1	1824.4	2738.1	2398.2	1924.2	1877.4
1811.9	80°	1456.4	1094.6	929.3	954.3	938.7	1621.7	2625.9	2086.3	1574.9	1409.6
748.5	82.5°	595.7	545.8	736.0	704.8	667.4	1259.9	2120.7	1705.9	1288.0	1138.3
361.8	85°	258.8	346.2	486.5	427.2	386.7	873.2	1699.6	1443.9	1088.4	938.7
118.5	87.5°	53.0	131.0	205.8	193.4	199.6	583.2	1206.9	1026.0	770.3	576.9
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>
5972.1
5956.5
6071.9
6268.4
6489.8
6695.6
6836.0
6917.1
6963.8
6967.0
6920.2
6839.1
6680.1
6386.9
5909.8
5279.8
4556.3
3842.1
3249.6
2844.2
2582.2
2382.6
2232.9
2073.9
1889.9
1946.0
2052.0
2114.4
2042.7
2270.3
2101.9
1712.1
1362.8
1125.8
935.6
452.2
0.0

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