

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: P943799

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
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
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
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32612 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

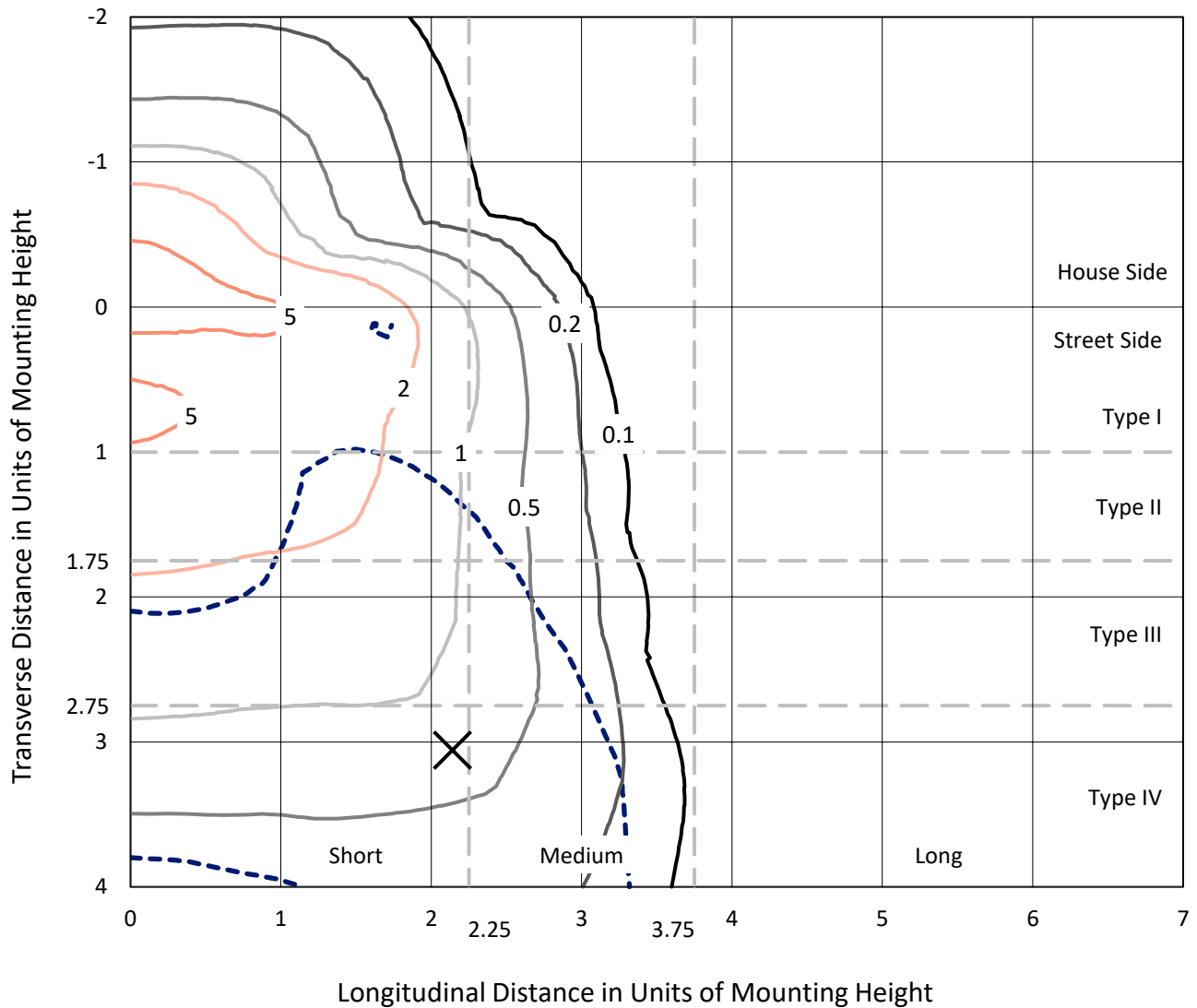
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943799
 CATALOG NUMBER: GALN-SB8B-940-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

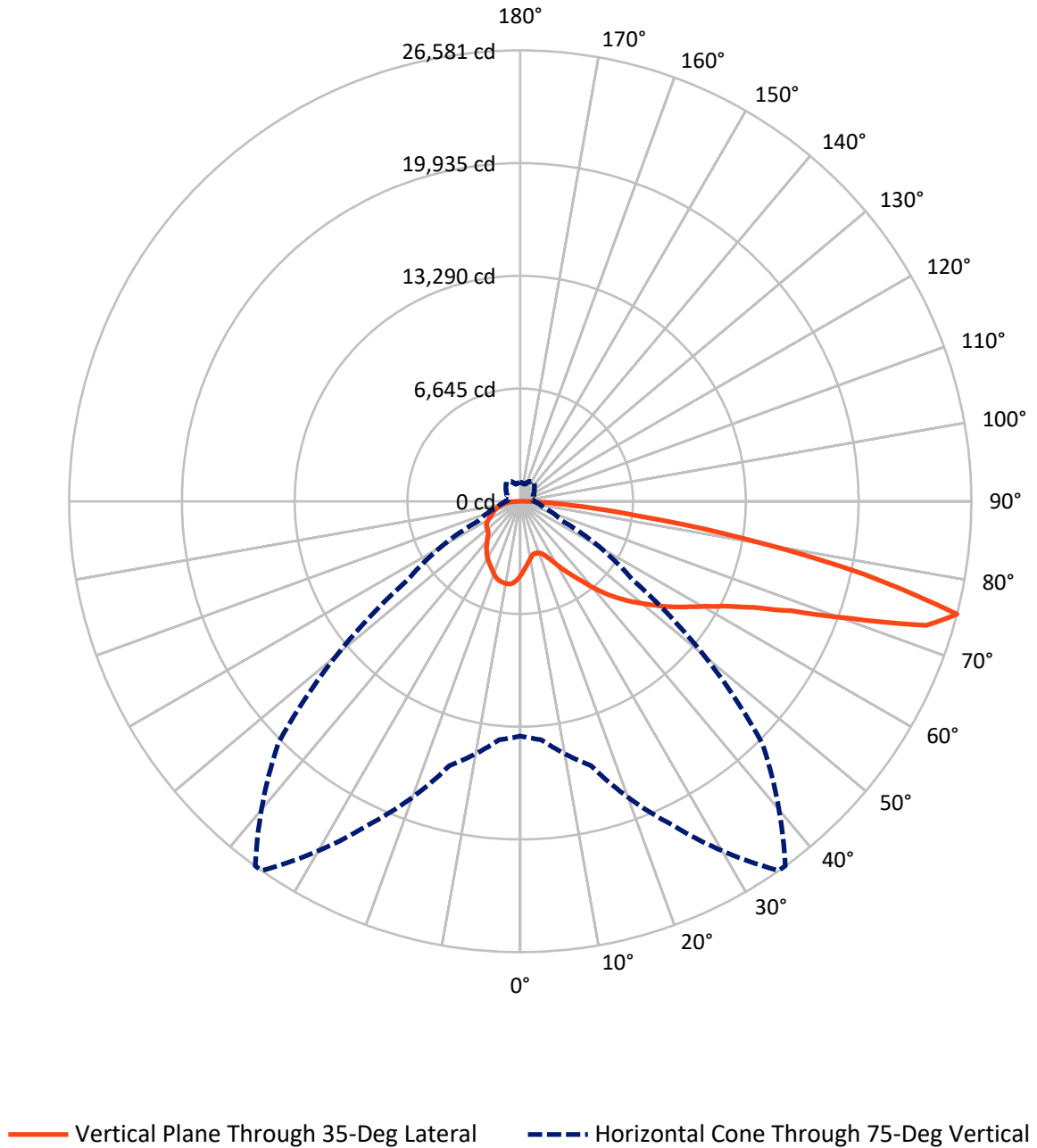
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - N/A

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CATALOG NUMBER: GALN-SB8B-940-U-T4FT

Luminous Intensity Polar Plot



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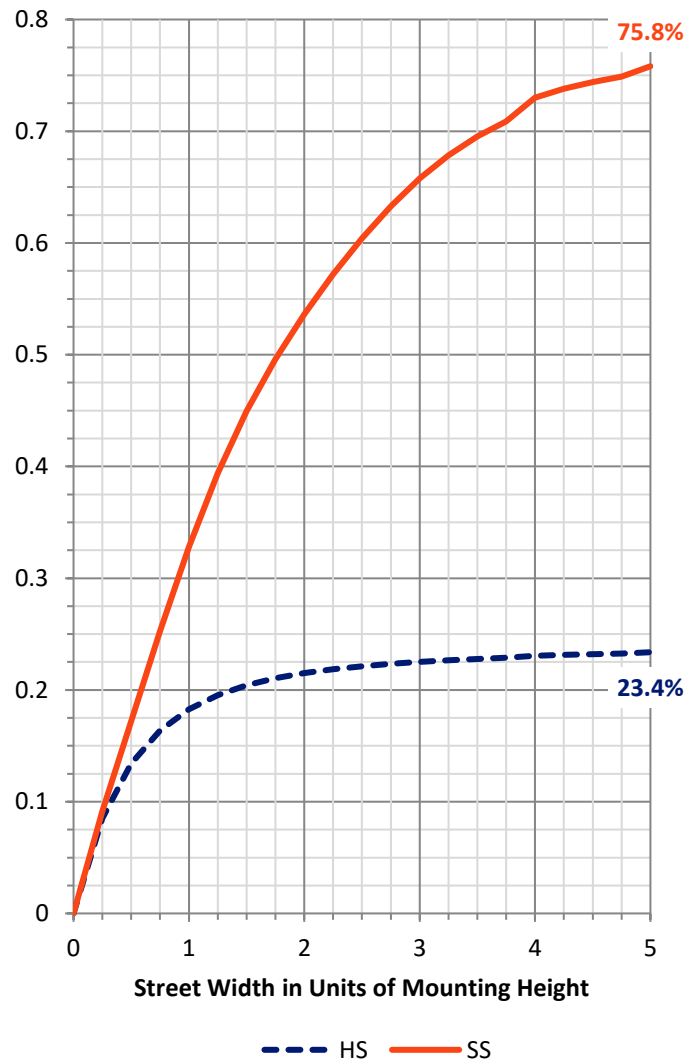
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7760.8	0.0	7760.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	24851.2	0.0	24851.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	32612.0	0.0	32612.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.5	1.3
10°-20°	1186.8	3.6
20°-30°	1993.0	6.1
30°-40°	3097.4	9.5
40°-50°	4597.3	14.1
50°-60°	6346.9	19.5
60°-70°	7700.2	23.6
70°-80°	6363.6	19.5
80°-90°	915.3	2.8
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°	32612.0	100.0
0°-180°	32612.0	100.0



REPORT NUMBER: P943799

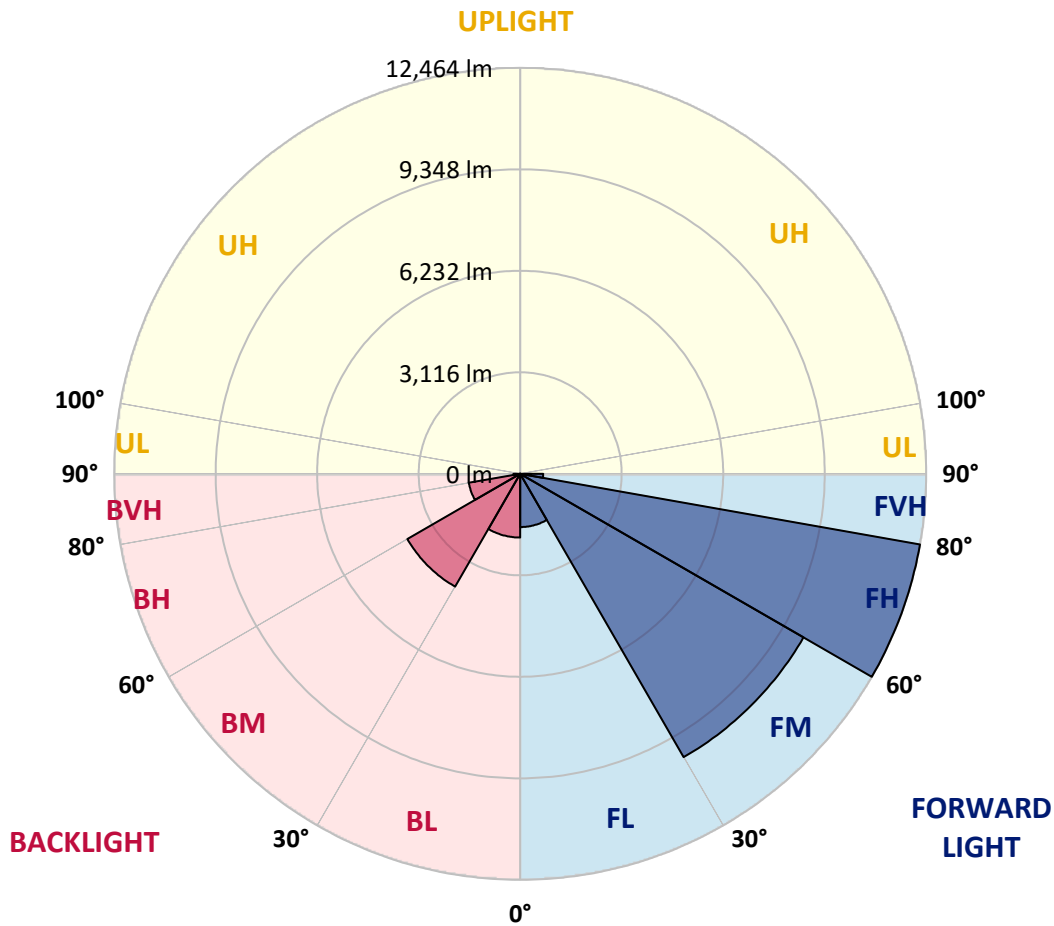
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1635.4	5.0			
FM (30°-60°)	10042.7	30.8			
FH (60°-80°)	12463.8	38.2			G5
FVH (80°-90°)	709.2	2.2			G4/750
BL (0°-30°)	1955.8	6.0	B3/2500		
BM (30°-60°)	3998.9	12.3	B3/5000		
BH (60°-80°)	1600.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	206.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



REPORT NUMBER: P943799

CATALOG NUMBER: GALN-SB8B-940-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8
2.5°	4007.3	4032.0	4042.5	4037.2	4063.7	4060.2	4097.2	4143.0	4206.5	4268.2
5°	3698.8	3725.2	3748.1	3769.3	3820.4	3836.3	3894.4	3982.6	4099.0	4217.1
7.5°	3411.4	3434.3	3469.6	3508.3	3594.7	3610.6	3707.6	3845.1	4007.3	4180.0
10°	3176.9	3199.8	3236.8	3280.9	3388.5	3407.9	3531.3	3714.6	3926.2	4144.8
12.5°	3076.4	3083.5	3104.6	3148.7	3242.1	3254.5	3390.2	3600.0	3846.8	4118.3
15°	3071.1	3085.2	3087.0	3109.9	3187.5	3192.8	3317.9	3526.0	3797.5	4113.1
17.5°	3124.0	3134.6	3118.7	3132.8	3198.1	3206.9	3305.6	3490.7	3781.6	4136.0
20°	3265.1	3273.9	3226.3	3206.9	3254.5	3261.5	3358.5	3513.6	3797.5	4183.6
22.5°	3564.8	3570.1	3453.7	3374.4	3377.9	3381.4	3466.0	3607.1	3859.2	4270.0
25°	4032.0	4028.4	3843.3	3689.9	3601.8	3582.4	3638.8	3758.7	3963.2	4384.6
27.5°	4578.5	4552.0	4366.9	4137.7	3945.6	3917.4	3905.0	3956.1	4111.3	4536.2
30°	5195.5	5170.8	4971.6	4671.9	4405.7	4359.9	4243.5	4217.1	4331.7	4742.4
32.5°	5872.5	5856.7	5618.6	5255.5	4899.3	4846.5	4650.8	4580.2	4670.2	5054.5
35°	6440.2	6426.1	6228.6	5854.9	5419.4	5354.2	5155.0	5075.6	5121.5	5454.7
37.5°	6953.2	6946.2	6776.9	6482.5	6033.0	5953.6	5729.7	5703.3	5694.5	5981.8
40°	7429.2	7411.6	7235.3	7080.2	6747.0	6674.7	6477.2	6454.3	6387.3	6630.6
42.5°	7956.4	7910.5	7654.9	7582.6	7492.7	7432.8	7314.6	7318.2	7170.1	7362.2
45°	8386.5	8360.1	8097.4	8055.1	8152.1	8127.4	8229.6	8256.1	7968.7	8129.1
47.5°	8848.4	8823.8	8601.6	8571.7	8834.3	8841.4	9202.8	9211.6	8748.0	8926.0
50°	9417.9	9382.6	9162.3	9199.3	9493.7	9520.1	10181.3	10121.3	9465.5	9735.2
52.5°	9793.4	9814.6	9767.0	9826.9	10228.9	10253.5	11143.9	10990.5	10176.0	10533.9
55°	10070.2	10112.5	10260.6	10398.1	11004.6	11029.3	12051.8	11817.3	10764.8	11274.3
57.5°	10426.3	10366.4	10643.2	10911.1	11741.5	11806.7	12935.1	12614.2	11286.7	11912.5
60°	10937.6	10895.3	11110.4	11507.0	12566.6	12670.6	13869.4	13331.7	11669.2	12418.5
62.5°	11974.2	11868.4	11901.9	12252.8	13606.8	13744.3	14923.7	13957.6	11859.6	12616.0
65°	13523.9	13342.3	13173.1	13416.4	15071.8	15207.5	16113.7	14449.5	11789.1	12233.4
67.5°	15475.5	15295.7	15087.7	15316.9	17229.7	17337.2	17582.3	14726.3	11233.8	10759.5
70°	17085.1	17018.1	17266.7	18209.9	20676.3	20679.9	19465.2	14497.1	9712.3	7628.5
72.5°	16871.8	16831.3	18141.2	21057.1	25020.3	24926.9	21247.6	12762.3	6542.5	3441.4
75°	13841.2	14103.9	16133.1	21006.0	26580.6	26568.3	20156.3	8113.3	2706.2	1426.3
77.5°	7422.2	7838.3	10473.9	15509.0	20750.4	21062.4	14170.9	2838.4	1161.8	913.2
80°	2420.6	2783.8	4174.8	7896.4	13483.3	13425.2	6073.5	1114.2	795.1	647.0
82.5°	1027.8	1070.1	1865.2	3728.7	6919.7	6812.2	1934.0	640.0	558.9	442.5
85°	402.0	449.6	823.3	1724.2	2997.1	2931.9	698.1	317.3	357.9	289.1
87.5°	132.2	160.4	294.4	590.6	932.6	899.1	171.0	109.3	155.1	132.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943799
 CATALOG NUMBER: GALN-SB8B-940-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4345.8	0°	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8
4358.1	2.5°	4382.8	4411.0	4444.5	4493.9	4536.2	4571.4	4608.5	4631.4	4640.2	4666.6
4365.2	5°	4414.5	4476.2	4559.1	4640.2	4719.5	4767.1	4809.4	4830.6	4850.0	4864.1
4384.6	7.5°	4467.4	4546.8	4677.2	4783.0	4850.0	4888.8	4917.0	4909.9	4917.0	4920.5
4405.7	10°	4513.3	4624.3	4779.5	4880.0	4931.1	4932.8	4925.8	4901.1	4888.8	4890.5
4437.4	12.5°	4567.9	4691.3	4858.8	4943.4	4957.5	4918.7	4888.8	4846.5	4830.6	4823.5
4485.0	15°	4642.0	4783.0	4945.2	4976.9	4941.7	4892.3	4841.2	4772.4	4737.2	4708.9
4566.1	17.5°	4731.9	4887.0	5012.2	4989.3	4913.5	4832.4	4749.5	4645.5	4573.2	4543.2
4677.2	20°	4857.0	4996.3	5063.3	4962.8	4848.2	4724.8	4583.8	4456.8	4389.8	4359.9
4818.3	22.5°	5008.7	5142.6	5112.7	4917.0	4754.8	4557.3	4381.0	4287.6	4254.1	4232.9
4999.8	25°	5190.2	5304.8	5147.9	4850.0	4601.4	4335.2	4199.4	4169.5	4153.6	4137.7
5222.0	27.5°	5426.5	5488.2	5174.4	4751.3	4361.6	4099.0	4049.6	4054.9	4049.6	4023.1
5530.5	30°	5738.5	5726.2	5199.1	4590.8	4086.6	3885.6	3889.2	3912.1	3915.6	3898.0
5960.7	32.5°	6149.3	6024.1	5211.4	4382.8	3823.9	3698.8	3702.3	3727.0	3744.6	3714.6
6523.1	35°	6646.5	6371.4	5192.0	4121.9	3621.2	3520.7	3494.2	3501.3	3506.6	3478.4
7205.3	37.5°	7226.5	6761.1	5105.6	3832.7	3453.7	3346.2	3289.7	3242.1	3213.9	3187.5
7977.5	40°	7862.9	7185.9	4946.9	3550.7	3266.8	3161.0	3076.4	2986.5	2891.3	2856.0
8795.6	42.5°	8529.3	7623.2	4754.8	3280.9	3051.7	2965.3	2875.4	2745.0	2602.2	2529.9
9645.3	45°	9220.4	8071.0	4566.1	3014.7	2831.4	2794.3	2690.3	2533.4	2378.3	2286.6
10496.8	47.5°	9897.4	8494.1	4289.4	2746.7	2625.1	2665.6	2584.5	2440.0	2267.2	2122.6
11341.3	50°	10544.4	8890.8	3836.3	2475.2	2457.6	2626.9	2549.3	2341.3	2143.8	1958.7
12169.9	52.5°	11186.2	9211.6	3256.2	2228.4	2367.7	2616.3	2503.4	2274.3	2032.7	1838.8
12949.2	55°	11730.9	9377.3	2697.4	2016.9	2237.2	2526.4	2448.8	2194.9	1875.8	1669.6
13483.3	57.5°	12041.2	9243.4	2231.9	1808.8	2057.4	2378.3	2355.4	2025.7	1688.9	1530.3
13587.4	60°	11907.2	8700.4	1851.1	1627.2	1886.4	2217.8	2193.2	1858.2	1546.1	1396.3
13030.3	62.5°	11168.5	7665.5	1549.7	1468.6	1731.3	2053.9	2031.0	1729.5	1436.8	1292.3
11551.1	65°	9680.6	6235.7	1315.2	1336.3	1574.3	1856.4	1889.9	1622.0	1350.5	1209.4
8936.6	67.5°	7383.4	4516.8	1131.8	1221.8	1421.0	1662.5	1759.5	1544.4	1278.2	1144.2
5170.8	70°	4208.3	2565.2	976.7	1110.7	1285.2	1482.7	1659.0	1482.7	1200.6	1089.5
1937.5	72.5°	1595.5	1177.7	844.5	999.6	1154.8	1331.1	1547.9	1385.7	1110.7	1027.8
1001.4	75°	851.5	717.5	710.5	869.2	1004.9	1183.0	1408.6	1290.5	1043.7	1086.0
692.9	77.5°	580.0	507.7	594.1	744.0	840.9	1019.0	1260.5	1145.9	904.4	900.9
479.5	80°	402.0	359.6	483.1	599.4	650.5	856.8	1100.1	983.7	736.9	687.6
296.2	82.5°	241.5	234.5	361.4	447.8	460.1	661.1	911.5	825.1	602.9	525.4
176.3	85°	132.2	139.3	231.0	262.7	268.0	461.9	714.0	638.2	463.7	389.6
63.5	87.5°	37.0	47.6	84.6	104.0	128.7	239.8	424.9	379.0	232.7	162.2
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>
4345.8
4664.9
4867.6
4925.8
4894.1
4820.0
4717.8
4545.0
4356.3
4236.5
4137.7
4028.4
3906.8
3728.7
3497.8
3205.1
2871.9
2538.7
2279.5
2106.8
1942.8
1817.6
1651.9
1509.1
1375.1
1269.4
1186.5
1123.0
1075.4
1013.7
<i>1121.3</i>
830.4
657.6
528.9
393.1
162.2
0.0

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