

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: P941639

Luminaire Tested: **GALN-SB5B-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941639
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-SB5B-735-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28114 lumens
Efficiency: N/A
Efficacy: 153.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

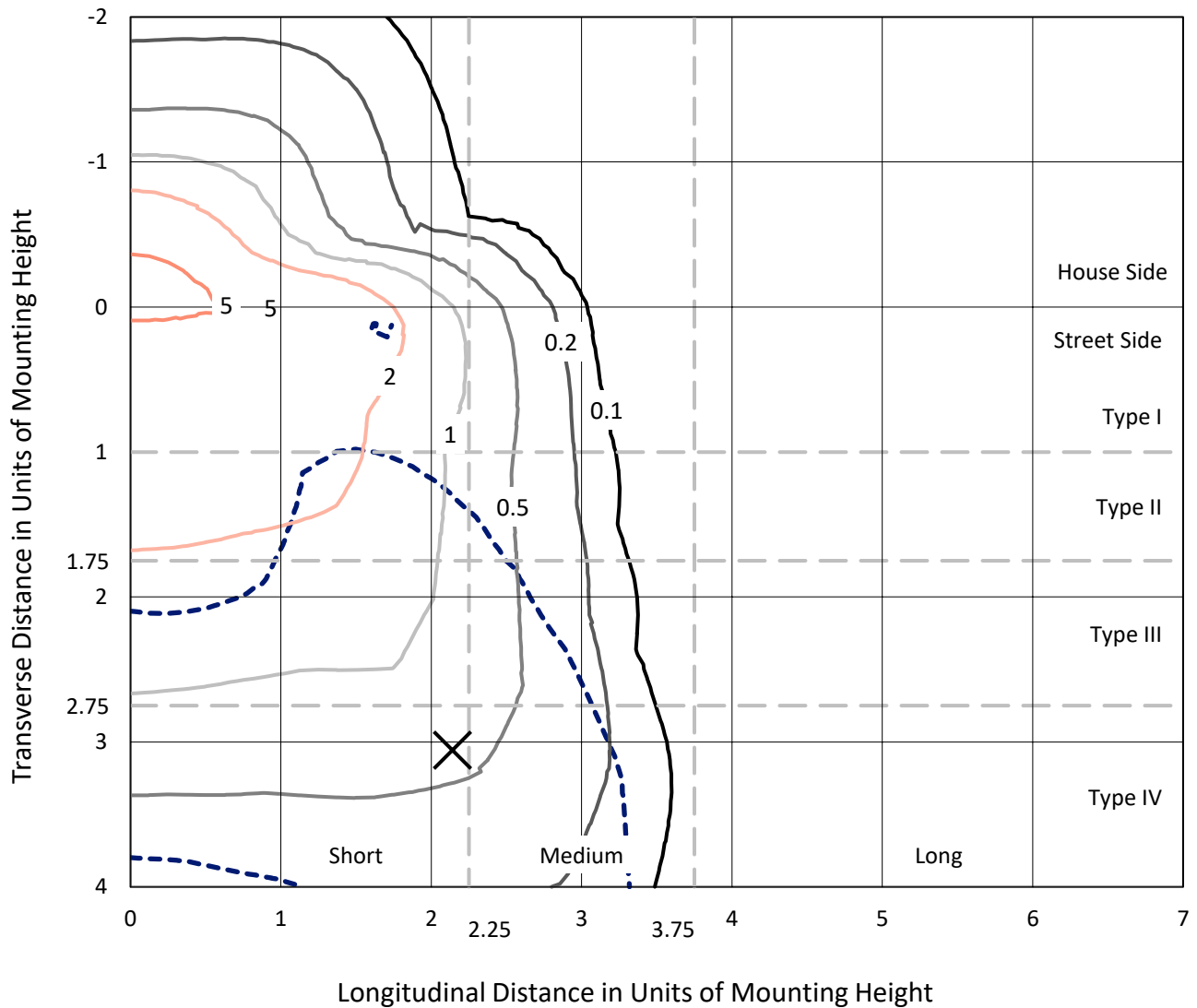
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

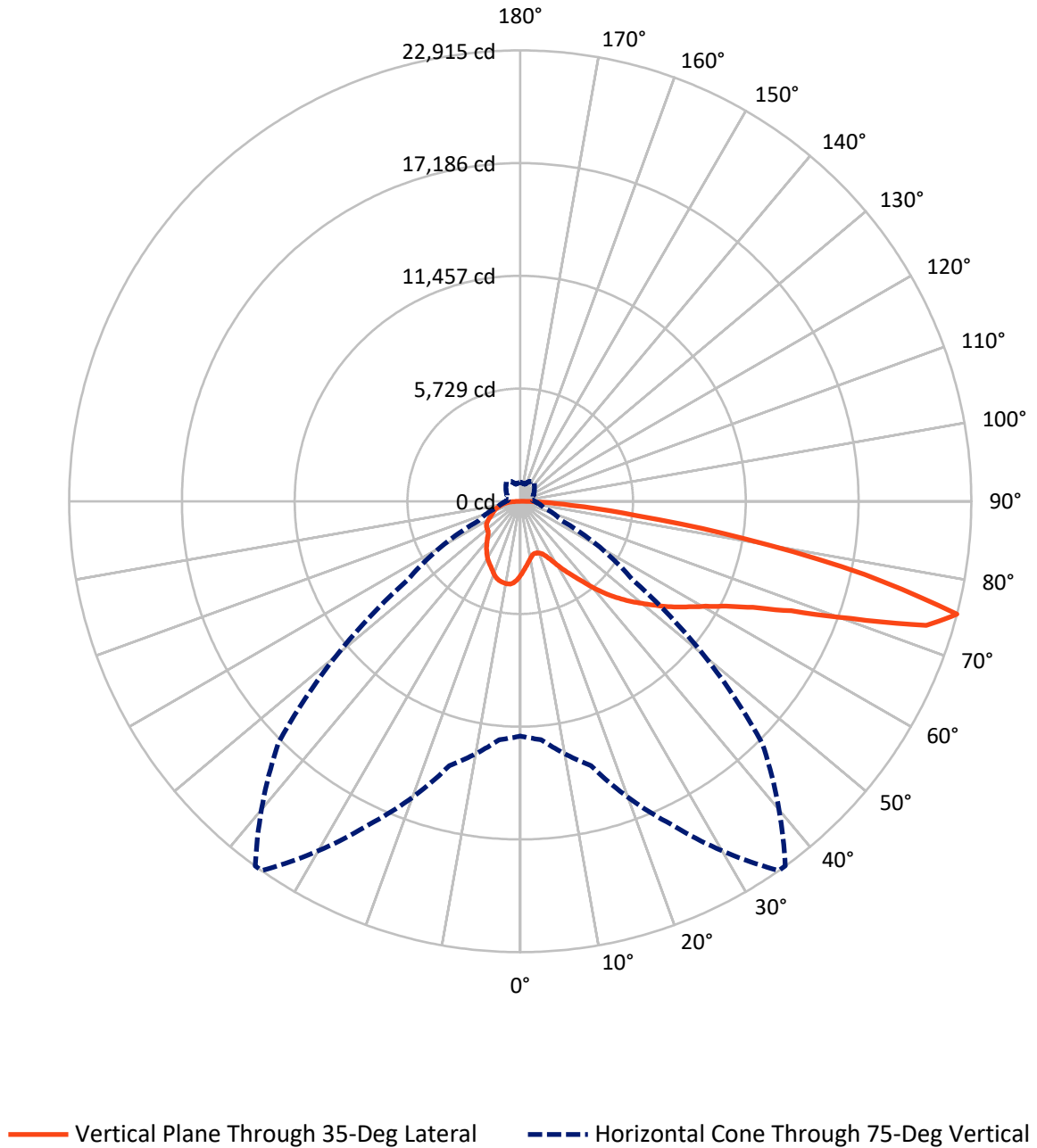
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	6690.4	0.0	6690.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	21423.6	0.0	21423.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	28114.0	0.0	28114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.7	1.3
10°-20°	1023.1	3.6
20°-30°	1718.1	6.1
30°-40°	2670.2	9.5
40°-50°	3963.2	14.1
50°-60°	5471.5	19.5
60°-70°	6638.2	23.6
70°-80°	5485.9	19.5
80°-90°	789.0	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°	28114.0	100.0
0°-180°	28114.0	100.0

Coefficient of Utilization



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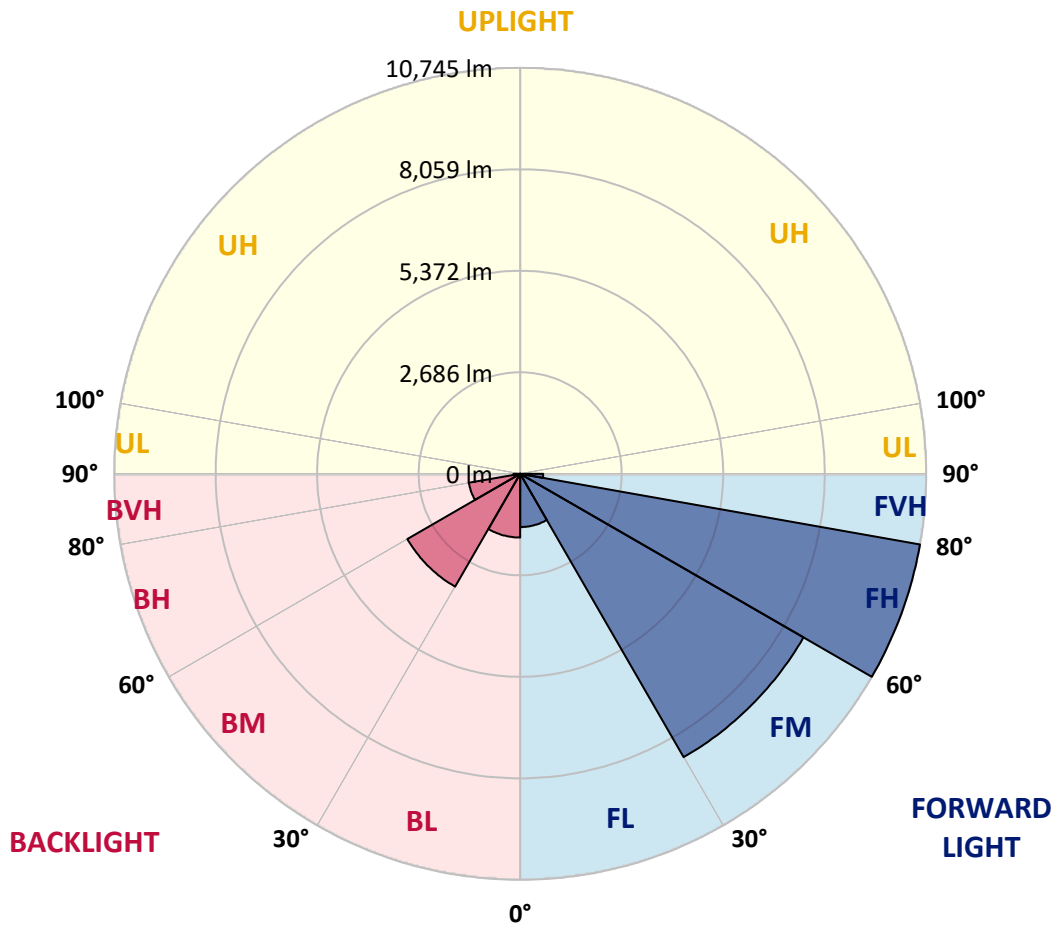
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1409.9	5.0			
FM (30°-60°)	8657.6	30.8			
FH (60°-80°)	10744.7	38.2			G4/12000
FVH (80°-90°)	611.4	2.2			G4/750
BL (0°-30°)	1686.1	6.0	B3/2500		
BM (30°-60°)	3447.3	12.3	B3/5000		
BH (60°-80°)	1379.4	4.9	B3/2500		G3/2500
BVH (80°-90°)	177.7	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	3746.4	3746.4	3746.4	3746.4	3746.4	3746.4	3746.4	3746.4	3746.4	3746.4
2.5°	3454.6	3475.9	3485.0	3480.4	3503.2	3500.2	3532.1	3571.6	3626.3	3679.5
5°	3188.6	3211.4	3231.2	3249.4	3293.5	3307.1	3357.3	3433.3	3533.6	3635.4
7.5°	2940.9	2960.6	2991.0	3024.5	3098.9	3112.6	3196.2	3314.7	3454.6	3603.5
10°	2738.7	2758.5	2790.4	2828.4	2921.1	2937.8	3044.2	3202.3	3384.7	3573.1
12.5°	2652.1	2658.2	2676.4	2714.4	2795.0	2805.6	2922.6	3103.5	3316.3	3550.3
15°	2647.5	2659.7	2661.2	2681.0	2747.9	2752.4	2860.3	3039.7	3273.7	3545.8
17.5°	2693.1	2702.3	2688.6	2700.7	2757.0	2764.6	2849.7	3009.3	3260.0	3565.5
20°	2814.7	2822.3	2781.3	2764.6	2805.6	2811.7	2895.3	3029.0	3273.7	3606.6
22.5°	3073.1	3077.7	2977.3	2909.0	2912.0	2915.0	2988.0	3109.6	3326.9	3681.0
25°	3475.9	3472.8	3313.2	3181.0	3105.0	3088.3	3136.9	3240.3	3416.6	3779.8
27.5°	3947.0	3924.2	3764.6	3567.0	3401.4	3377.1	3366.4	3410.5	3544.2	3910.5
30°	4478.9	4457.7	4285.9	4027.5	3798.1	3758.5	3658.2	3635.4	3734.2	4088.3
32.5°	5062.6	5048.9	4843.7	4530.6	4223.6	4178.0	4009.3	3948.5	4026.0	4357.4
35°	5551.9	5539.8	5369.6	5047.4	4672.0	4615.7	4444.0	4375.6	4415.1	4702.4
37.5°	5994.2	5988.1	5842.2	5588.4	5200.9	5132.5	4939.4	4916.6	4909.1	5156.8
40°	6404.6	6389.4	6237.4	6103.6	5816.4	5754.1	5583.9	5564.1	5506.3	5716.1
42.5°	6859.0	6819.5	6599.1	6536.8	6459.3	6407.6	6305.8	6308.8	6181.1	6346.8
45°	7229.8	7207.0	6980.6	6944.1	7027.7	7006.4	7094.6	7117.4	6869.6	7007.9
47.5°	7628.0	7606.7	7415.3	7389.4	7615.9	7621.9	7933.5	7941.1	7541.4	7694.9
50°	8118.9	8088.5	7898.6	7930.5	8184.3	8207.1	8777.0	8725.3	8160.0	8392.5
52.5°	8442.7	8460.9	8419.9	8471.5	8818.1	8839.3	9606.8	9474.6	8772.5	9081.0
55°	8681.3	8717.7	8845.4	8964.0	9486.8	9508.1	10389.6	10187.4	9280.1	9719.3
57.5°	8988.3	8936.6	9175.2	9406.2	10122.1	10178.3	11151.0	10874.4	9730.0	10269.5
60°	9429.0	9392.5	9578.0	9919.9	10833.3	10923.0	11956.5	11493.0	10059.8	10705.7
62.5°	10322.7	10231.5	10260.4	10562.8	11730.0	11848.6	12865.4	12032.5	10223.9	10875.9
65°	11658.6	11502.1	11356.2	11565.9	12993.0	13110.1	13891.2	12456.5	10163.1	10546.1
67.5°	13341.1	13186.0	13006.7	13204.3	14853.3	14946.0	15157.3	12695.1	9684.4	9275.5
70°	14728.7	14670.9	14885.2	15698.3	17824.6	17827.6	16780.4	12497.6	8372.7	6576.3
72.5°	14544.8	14509.8	15639.0	18152.8	21569.4	21488.9	18317.0	11002.0	5640.1	2966.7
75°	11932.2	12158.6	13908.0	18108.8	22914.5	22903.8	17376.2	6994.3	2332.9	1229.5
77.5°	6398.5	6757.2	9029.3	13369.9	17888.4	18157.4	12216.4	2446.9	1001.6	787.3
80°	2086.7	2399.8	3599.0	6807.3	11623.7	11573.5	5235.8	960.5	685.4	557.8
82.5°	886.1	922.5	1608.0	3214.4	5965.3	5872.6	1667.3	551.7	481.8	381.5
85°	346.5	387.6	709.8	1486.4	2583.7	2527.5	601.9	273.6	308.5	249.3
87.5°	114.0	138.3	253.8	509.1	804.0	775.1	147.4	94.2	133.7	114.0
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°
3746.4	0°	3746.4	3746.4	3746.4	3746.4	3746.4	3746.4	3746.4	3746.4	3746.4	3746.4
3757.0	2.5°	3778.3	3802.6	3831.5	3874.0	3910.5	3940.9	3972.8	3992.6	4000.2	4023.0
3763.1	5°	3805.7	3858.8	3930.3	4000.2	4068.6	4109.6	4146.1	4164.3	4181.1	4193.2
3779.8	7.5°	3851.2	3919.6	4032.1	4123.3	4181.1	4214.5	4238.8	4232.7	4238.8	4241.8
3798.1	10°	3890.8	3986.5	4120.3	4206.9	4251.0	4252.5	4246.4	4225.1	4214.5	4216.0
3825.4	12.5°	3937.9	4044.3	4188.7	4261.6	4273.8	4240.3	4214.5	4178.0	4164.3	4158.3
3866.4	15°	4001.7	4123.3	4263.1	4290.5	4260.1	4217.5	4173.5	4114.2	4083.8	4059.5
3936.4	17.5°	4079.2	4213.0	4320.9	4301.1	4235.8	4165.9	4094.4	4004.8	3942.4	3916.6
4032.1	20°	4187.1	4307.2	4365.0	4278.3	4179.5	4073.1	3951.6	3842.1	3784.4	3758.5
4153.7	22.5°	4317.8	4433.3	4407.5	4238.8	4099.0	3928.8	3776.8	3696.2	3667.3	3649.1
4310.2	25°	4474.4	4573.2	4437.9	4181.1	3966.8	3737.3	3620.2	3594.4	3580.7	3567.0
4501.7	27.5°	4678.0	4731.2	4460.7	4095.9	3760.1	3533.6	3491.0	3495.6	3491.0	3468.3
4767.7	30°	4947.0	4936.4	4482.0	3957.6	3523.0	3349.7	3352.7	3372.5	3375.5	3360.3
5138.5	32.5°	5301.2	5193.3	4492.6	3778.3	3296.5	3188.6	3191.6	3212.9	3228.1	3202.3
5623.4	35°	5729.8	5492.7	4475.9	3553.4	3121.7	3035.1	3012.3	3018.4	3022.9	2998.6
6211.5	37.5°	6229.8	5828.5	4401.4	3304.1	2977.3	2884.6	2836.0	2795.0	2770.6	2747.9
6877.2	40°	6778.4	6194.8	4264.6	3060.9	2816.2	2725.1	2652.1	2574.6	2492.5	2462.1
7582.4	42.5°	7352.9	6571.7	4099.0	2828.4	2630.8	2556.4	2478.8	2366.4	2243.3	2181.0
8315.0	45°	7948.7	6957.8	3936.4	2598.9	2440.8	2408.9	2319.3	2184.0	2050.3	1971.2
9049.1	47.5°	8532.3	7322.5	3697.7	2367.9	2263.0	2298.0	2228.1	2103.4	1954.5	1829.9
9777.1	50°	9090.1	7664.5	3307.1	2133.8	2118.6	2264.5	2197.7	2018.3	1848.1	1688.5
10491.4	52.5°	9643.3	7941.1	2807.1	1921.1	2041.1	2255.4	2158.2	1960.6	1752.4	1585.2
11163.2	55°	10112.9	8084.0	2325.3	1738.7	1928.7	2177.9	2111.0	1892.2	1617.1	1439.3
11623.7	57.5°	10380.4	7968.5	1924.1	1559.3	1773.6	2050.3	2030.5	1746.3	1456.0	1319.2
11713.3	60°	10264.9	7500.4	1595.8	1402.8	1626.2	1911.9	1890.7	1601.9	1332.9	1203.7
11233.1	62.5°	9628.1	6608.2	1335.9	1266.0	1492.5	1770.6	1750.8	1491.0	1238.7	1114.0
9957.9	65°	8345.4	5375.6	1133.8	1152.0	1357.2	1600.4	1629.3	1398.2	1164.2	1042.6
7704.0	67.5°	6365.0	3893.8	975.7	1053.2	1225.0	1433.2	1516.8	1331.4	1101.9	986.4
4457.7	70°	3627.8	2211.4	842.0	957.5	1108.0	1278.2	1430.2	1278.2	1035.0	939.3
1670.3	72.5°	1375.4	1015.2	728.0	861.7	995.5	1147.5	1334.4	1194.6	957.5	886.1
863.3	75°	734.1	618.6	612.5	749.3	866.3	1019.8	1214.3	1112.5	899.7	936.2
597.3	77.5°	500.0	437.7	512.2	641.4	725.0	878.5	1086.7	987.9	779.7	776.6
413.4	80°	346.5	310.0	416.4	516.7	560.8	738.6	948.4	848.1	635.3	592.7
255.3	82.5°	208.2	202.1	311.6	386.0	396.7	569.9	785.8	711.3	519.8	452.9
152.0	85°	114.0	120.1	199.1	226.5	231.0	398.2	615.5	550.2	399.7	335.9
54.7	87.5°	31.9	41.0	73.0	89.7	110.9	206.7	366.3	326.8	200.6	139.8
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>
3746.4
4021.5
4196.3
4246.4
4219.0
4155.2
4067.1
3918.1
3755.5
3652.2
3567.0
3472.8
3367.9
3214.4
3015.3
2763.1
2475.8
2188.6
1965.1
1816.2
1674.9
1566.9
1424.1
1301.0
1185.5
1094.3
1022.8
968.1
927.1
873.9
966.6
715.8
566.9
455.9
338.9
139.8
0.0

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