

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: P954546

Luminaire Tested: **GALN-SB7D-735-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-735-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 73711 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

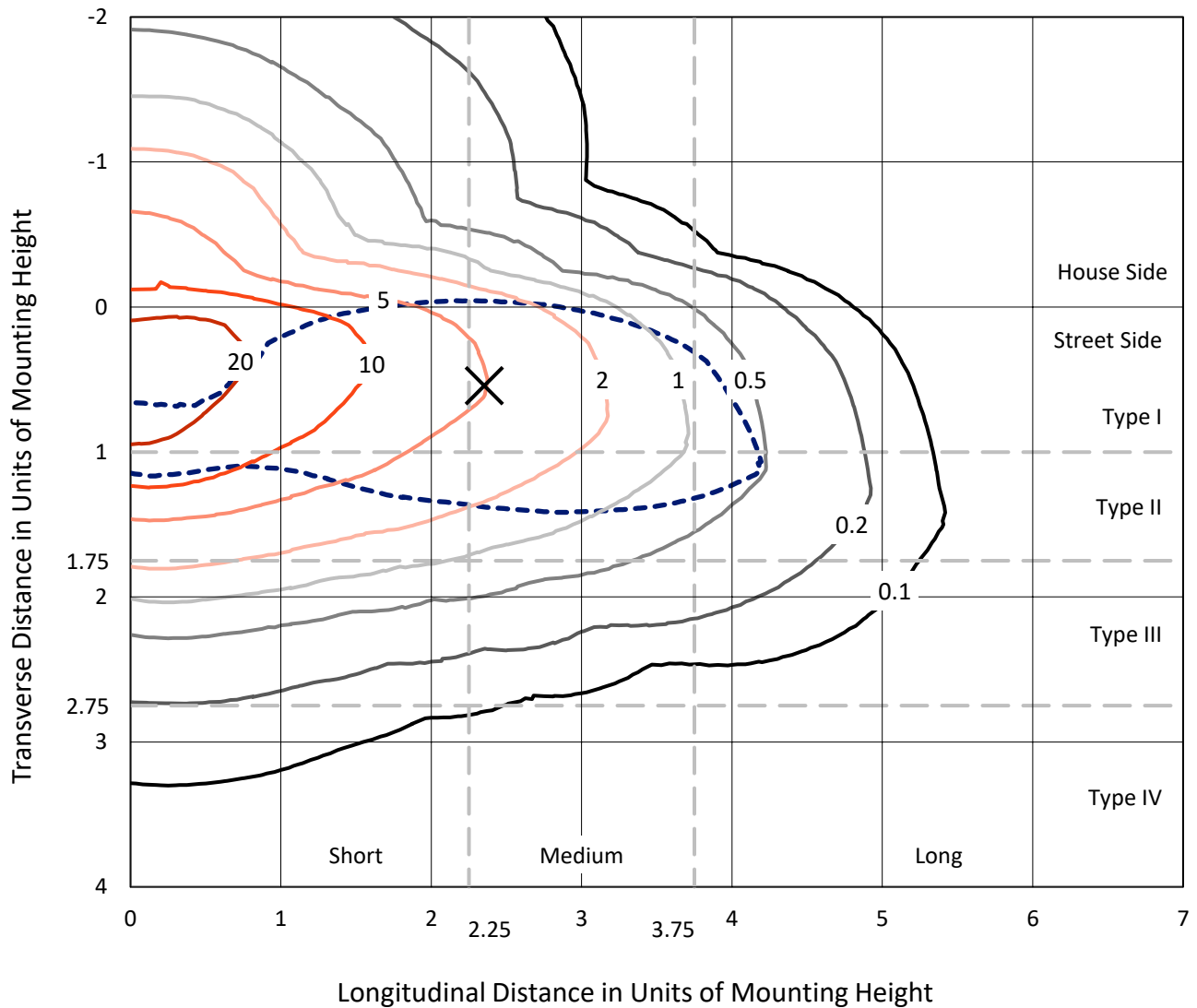
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

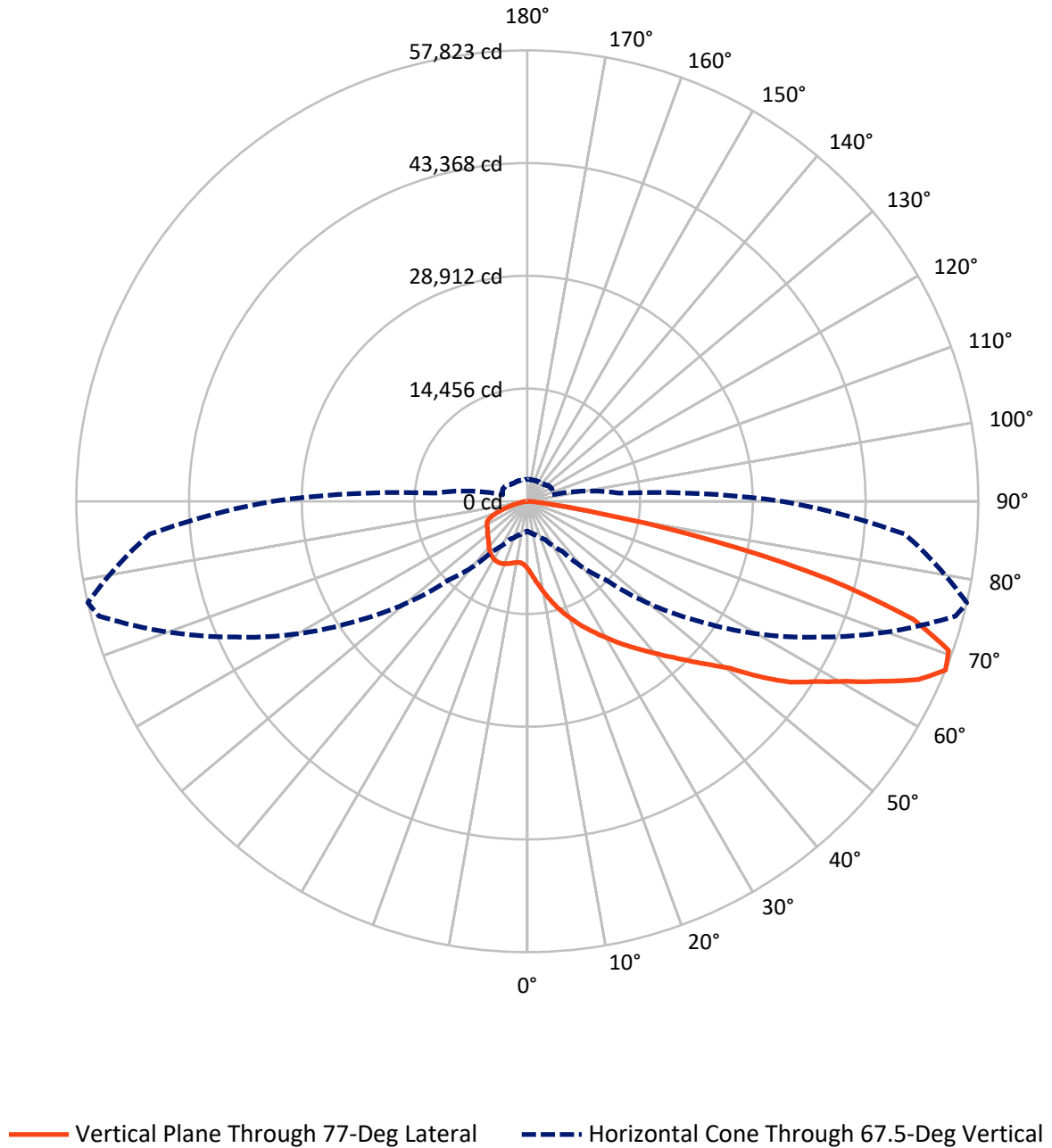
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13943.2	0.0	13943.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	59767.8	0.0	59767.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	73711.0	0.0	73711.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	927.0	1.3
10°-20°	3330.4	4.5
20°-30°	6288.1	8.5
30°-40°	10130.0	13.7
40°-50°	13856.0	18.8
50°-60°	15629.7	21.2
60°-70°	14588.3	19.8
70°-80°	7996.9	10.8
80°-90°	964.6	1.3
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°	73711.0	100.0
0°-180°	73711.0	100.0

Coefficient of Utilization



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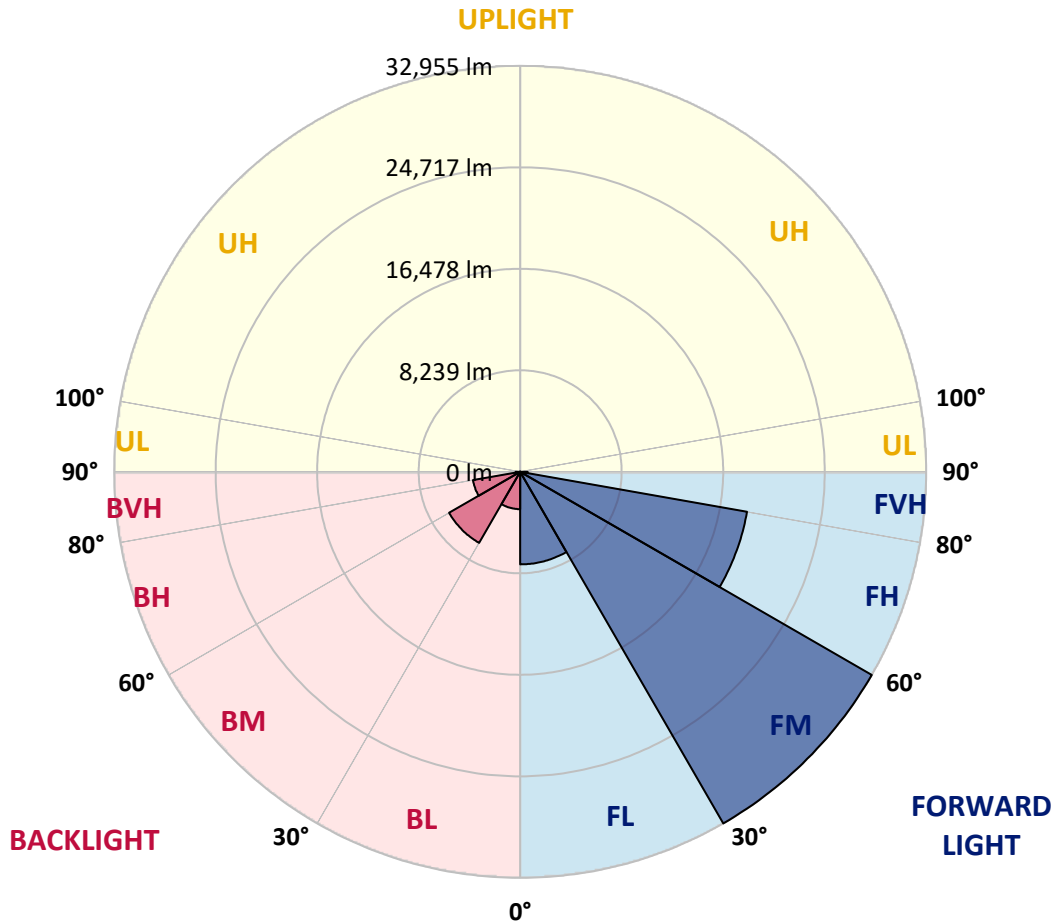
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7513.9	10.2			
FM (30°-60°)	32955.4	44.7			
FH (60°-80°)	18695.3	25.4			G5
FVH (80°-90°)	603.2	0.8			G4/750
BL (0°-30°)	3031.6	4.1	B4/5000		
BM (30°-60°)	6660.3	9.0	B4/8500		
BH (60°-80°)	3889.9	5.3	B4/5000		G4/5000
BVH (80°-90°)	361.4	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	8648.6	8648.6	8648.6	8648.6	8648.6	8648.6	8648.6	8648.6	8648.6	8648.6
2.5°	10828.8	10904.9	10809.8	10809.8	10490.2	10322.8	10003.1	9759.6	9322.1	9246.0
5°	12799.8	12894.9	12761.7	12704.6	12328.0	11981.7	11445.2	10916.3	10136.3	10056.4
7.5°	14325.5	14447.3	14329.3	14268.5	13933.6	13545.5	12917.7	12179.6	11079.9	10923.9
10°	15569.7	15588.8	15550.7	15573.6	15311.0	14991.4	14348.4	13488.5	12114.9	11901.8
12.5°	16273.7	16361.2	16437.3	16574.2	16528.6	16330.7	15752.4	14725.1	13210.7	12936.7
15°	16604.7	16756.9	16928.1	17243.9	17498.8	17548.3	17106.9	16053.0	14325.5	13994.5
17.5°	16722.6	16867.2	17137.4	17594.0	18141.9	18511.0	18313.1	17342.8	15429.0	15048.5
20°	17320.0	17361.9	17525.5	17959.2	18552.8	19165.4	19313.8	18583.2	16521.0	16091.0
22.5°	18598.5	18514.8	18560.4	18758.3	19184.4	19778.0	20116.6	19679.1	17643.4	17148.8
25°	20710.2	20466.7	20223.2	19994.9	20211.8	20546.6	20930.9	20774.9	18819.1	18191.3
27.5°	23377.4	23080.7	22544.2	21794.6	21532.1	21650.0	21821.2	21790.8	19907.4	19271.9
30°	26002.8	25656.6	25017.4	23933.0	23240.5	22928.5	22799.1	22711.6	21090.7	20413.4
32.5°	28099.4	27825.4	27197.6	25983.8	24979.3	24446.6	24016.7	23704.7	22327.3	21650.0
35°	29933.3	29678.4	28959.3	27635.2	26543.1	25976.2	25413.1	24747.2	23613.4	22928.5
37.5°	31607.5	31352.6	30367.1	28989.7	27890.1	27498.2	26995.9	25865.9	24903.2	24256.4
40°	32665.3	32608.2	31687.4	30127.4	28985.9	28791.9	28624.4	27163.3	26333.9	25732.7
42.5°	32935.4	33061.0	32330.4	31048.2	29960.0	29804.0	30195.9	28632.0	27939.6	27365.0
45°	32284.8	32646.2	32166.8	31295.5	30652.5	30568.8	31588.5	30237.7	29716.4	29191.4
47.5°	30637.2	31249.8	31052.0	30930.2	30838.9	31200.4	32813.7	31942.3	31729.3	31272.7
50°	27311.7	28472.2	28818.5	29587.1	30469.8	31691.2	33928.5	33802.9	34080.7	33620.3
52.5°	21562.5	23160.6	25169.6	27094.9	29336.0	31527.6	35153.7	36474.0	37645.9	37394.8
55°	17799.4	18518.6	20063.4	23594.3	27136.7	30838.9	35705.4	38631.4	41184.5	40960.0
57.5°	14907.7	15550.7	16502.0	19450.8	23811.2	29275.1	36047.8	39947.9	43608.2	43585.4
60°	11806.7	12487.8	13461.8	15550.7	19926.4	26573.6	35971.7	41447.0	46701.6	46891.9
62.5°	8306.1	9055.7	10136.3	12084.4	15957.8	23073.1	34419.3	42531.4	50342.9	50860.4
65°	5460.1	5954.7	6769.0	8450.7	11890.4	18571.8	31455.3	42672.2	54239.2	55114.3
67.5°	3827.8	4018.0	4497.4	5410.6	7838.1	14241.8	26733.4	41214.9	56837.9	57823.4
70°	2986.9	3082.0	3325.5	3690.8	4923.6	9577.0	20485.7	37425.2	56282.4	57309.8
72.5°	2579.7	2671.1	2762.4	2808.0	3302.7	5912.9	13876.6	31291.7	51050.7	51747.0
75°	2340.0	2362.9	2439.0	2423.7	2518.9	3835.4	8009.4	22799.1	40278.9	40039.2
77.5°	1967.1	1997.6	2123.1	2104.1	2237.3	2621.6	4158.8	14713.6	26113.2	24484.7
80°	1666.6	1681.8	1818.8	1795.9	1944.3	1898.7	2123.1	7499.5	11076.1	9382.9
82.5°	578.3	715.3	1388.8	1430.7	1483.9	1149.1	1225.2	3059.2	3382.6	2591.2
85°	281.6	300.6	707.7	1004.5	1000.7	578.3	597.4	1092.0	1065.4	837.1
87.5°	45.7	57.1	83.7	391.9	312.0	152.2	205.5	213.1	220.7	190.2
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°
8648.6	0°	8648.6	8648.6	8648.6	8648.6	8648.6	8648.6	8648.6	8648.6	8648.6	8648.6
8956.8	2.5°	8743.7	8553.5	8154.0	7784.9	7495.7	7217.9	7061.9	6928.8	6852.7	6837.4
9375.3	5°	8979.6	8587.7	7861.0	7248.4	6848.9	6552.1	6396.1	6297.1	6247.7	6217.2
9938.5	7.5°	9318.3	8743.7	7708.8	7012.5	6593.9	6380.9	6301.0	6285.7	6281.9	6285.7
10619.5	10°	9786.3	8998.6	7693.6	6955.4	6605.3	6487.4	6483.6	6487.4	6502.6	6506.4
11361.5	12.5°	10292.3	9261.2	7754.4	7004.9	6749.9	6685.2	6673.8	6670.0	6681.4	6689.1
12111.1	15°	10844.0	9607.4	7857.2	7111.4	6909.7	6841.3	6829.8	6807.0	6803.2	6799.4
12898.7	17.5°	11411.0	9949.9	7971.3	7225.5	7012.5	6917.4	6875.5	6822.2	6780.4	6769.0
13712.9	20°	11985.5	10288.5	8051.2	7282.6	7020.1	6886.9	6803.2	6711.9	6639.6	6597.7
14534.8	22.5°	12598.1	10642.4	8100.7	7267.4	6951.6	6769.0	6616.8	6510.2	6399.9	6327.6
15364.3	25°	13195.5	10950.6	8096.9	7187.5	6818.4	6586.3	6392.3	6255.3	6103.1	6027.0
16220.4	27.5°	13770.0	11228.3	8001.8	7046.7	6628.2	6369.4	6137.3	5973.7	5825.3	5753.0
17084.1	30°	14363.6	11460.4	7853.4	6841.3	6403.7	6118.3	5863.4	5722.6	5589.4	5520.9
17997.3	32.5°	14953.3	11673.5	7644.1	6586.3	6145.0	5871.0	5619.9	5490.5	5410.6	5410.6
18979.0	35°	15577.4	11821.9	7366.3	6289.5	5871.0	5608.5	5410.6	5334.5	5326.9	5281.2
20017.7	37.5°	16235.6	11917.0	7027.7	5985.1	5600.8	5353.5	5292.6	5201.3	5125.2	5026.3
21159.2	40°	16928.1	12012.1	6620.6	5669.3	5315.5	5178.5	5151.9	5030.1	4813.2	4569.7
22452.9	42.5°	17769.0	12076.8	6198.2	5353.5	5014.9	4969.2	5007.3	4798.0	4451.8	4269.1
24012.9	45°	18743.1	12183.4	5810.1	5041.5	4706.7	4706.7	4866.5	4592.5	4307.2	4193.0
25793.6	47.5°	20006.3	12430.7	5448.6	4699.1	4421.3	4497.4	4554.5	4345.2	4185.4	4044.6
27962.4	50°	21832.6	13024.3	5075.8	4352.8	4204.4	4356.6	4276.7	4155.0	3968.5	3854.4
31409.6	52.5°	24100.4	13374.3	4744.7	4040.8	4018.0	4170.2	4056.0	3941.9	3801.1	3648.9
34023.6	55°	25645.2	13439.0	4467.0	3812.5	3892.4	3877.2	3835.4	3732.6	3656.5	3454.9
36603.4	57.5°	27372.6	13568.4	4238.7	3675.6	3812.5	3645.1	3629.9	3542.4	3443.5	3306.5
39750.0	60°	29438.7	13770.0	4040.8	3622.3	3744.0	3492.9	3416.8	3382.6	3283.6	3215.2
43535.9	62.5°	31691.2	13952.7	3839.2	3629.9	3664.1	3344.5	3230.4	3219.0	3158.1	3135.3
47089.7	65°	33228.4	13454.2	3588.0	3622.3	3538.6	3192.3	3047.7	3043.9	2994.5	2986.9
48630.7	67.5°	32691.9	11875.2	3249.4	3515.7	3409.2	3040.1	2880.3	2865.1	2800.4	2804.2
47021.2	70°	30005.6	9622.7	2781.4	3253.2	3249.4	2903.2	2705.3	2655.8	2568.3	2583.5
40883.9	72.5°	24967.9	7130.4	2153.6	2815.6	2994.5	2777.6	2503.6	2423.7	2313.4	2328.6
30180.7	75°	18031.5	4847.5	1567.6	2142.2	2606.4	2629.2	2305.8	2168.8	2035.6	2058.5
16798.7	77.5°	9226.9	2747.2	1152.9	1476.3	2047.0	2389.5	2127.0	1944.3	1913.9	2127.0
4843.7	80°	3009.7	1377.4	799.0	1034.9	1343.1	1955.7	1864.4	1655.1	1647.5	1697.0
1015.9	82.5°	898.0	582.2	513.7	681.1	742.0	1499.1	1609.5	1251.8	1076.8	1133.9
338.6	85°	308.2	281.6	293.0	338.6	353.9	878.9	1126.3	829.5	783.8	863.7
76.1	87.5°	72.3	98.9	83.7	76.1	76.1	213.1	437.6	346.2	479.4	319.6
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>
8648.6
6837.4
6213.4
6297.1
6510.2
6692.9
6795.6
6780.4
6613.0
6331.4
6027.0
5749.2
5517.1
5414.4
5269.8
5011.1
4535.5
4272.9
4212.0
4040.8
3843.0
3618.5
3458.7
3260.8
3234.2
3135.3
2983.1
2804.2
2598.8
2324.8
2066.1
2096.5
1457.3
1171.9
852.3
308.2
0.0

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