

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: P953832

Luminaire Tested: **GALN-SB7B-735-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953832
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-SB7B-735-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40789 lumens
Efficiency: N/A
Efficacy: 158.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

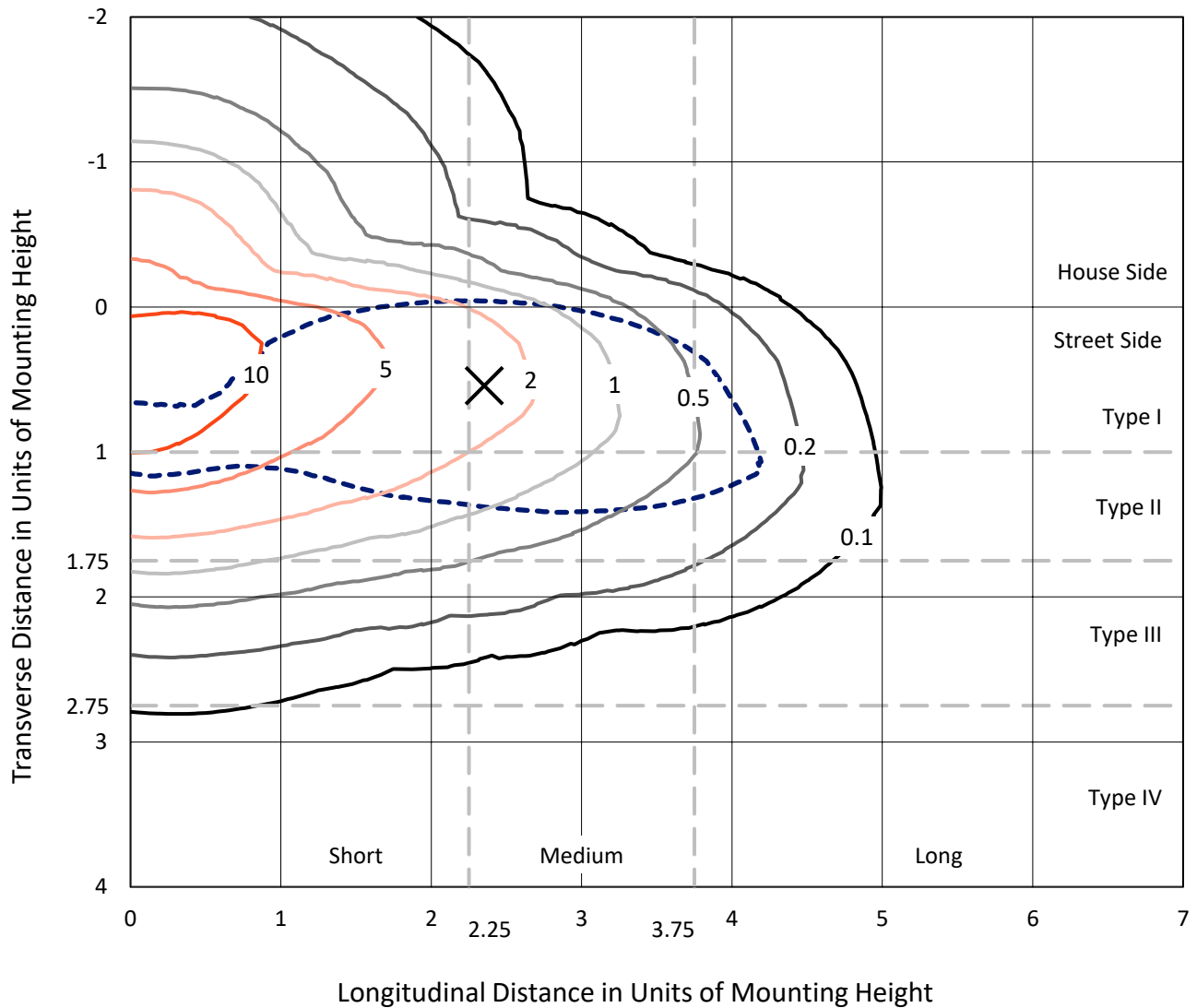
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

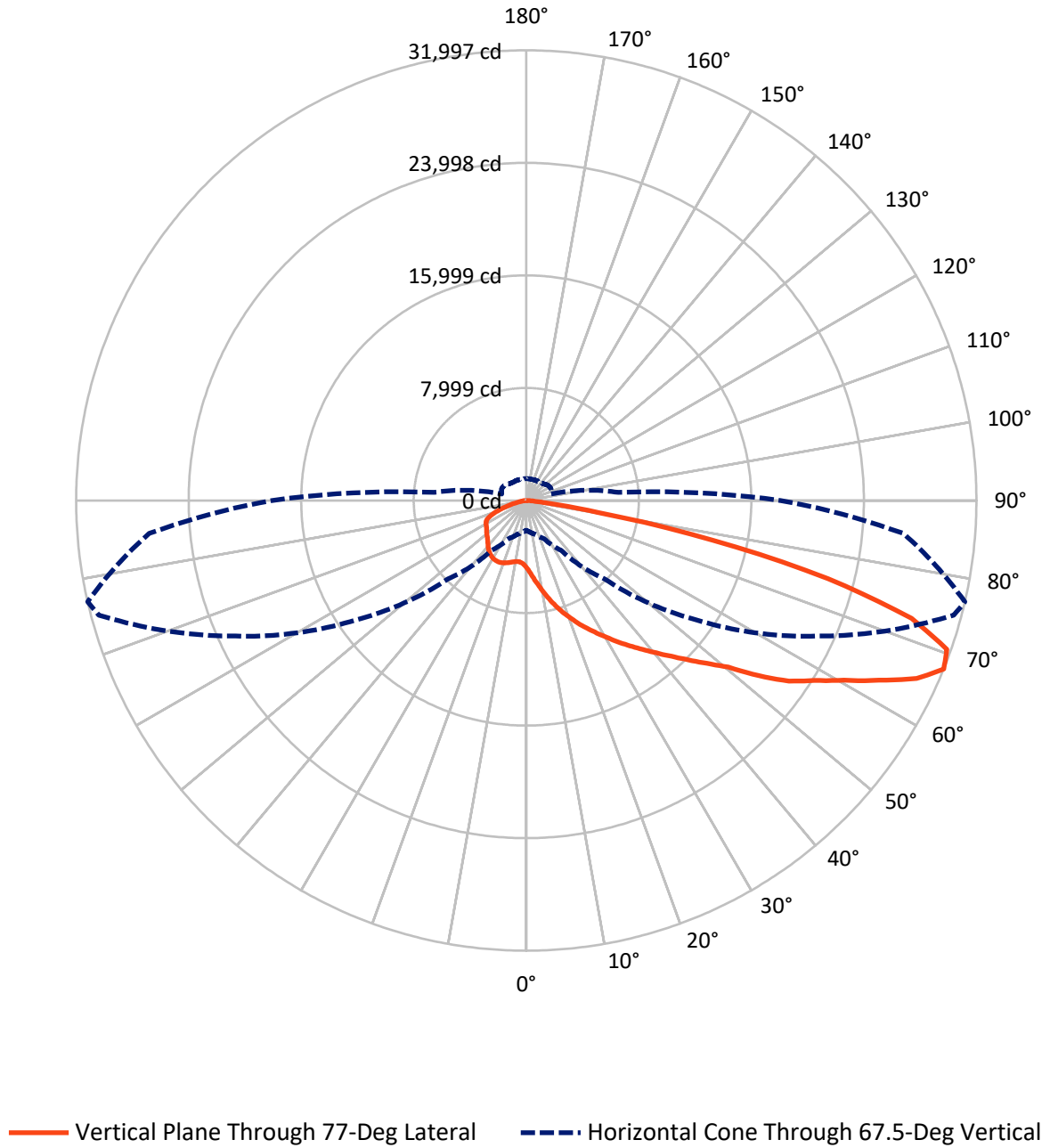
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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	7715.6	0.0	7715.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	33073.4	0.0	33073.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	40789.0	0.0	40789.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.0	1.3
10°-20°	1842.9	4.5
20°-30°	3479.6	8.5
30°-40°	5605.6	13.7
40°-50°	7667.4	18.8
50°-60°	8648.9	21.2
60°-70°	8072.7	19.8
70°-80°	4425.2	10.8
80°-90°	533.8	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°	40789.0	100.0
0°-180°	40789.0	100.0

Coefficient of Utilization



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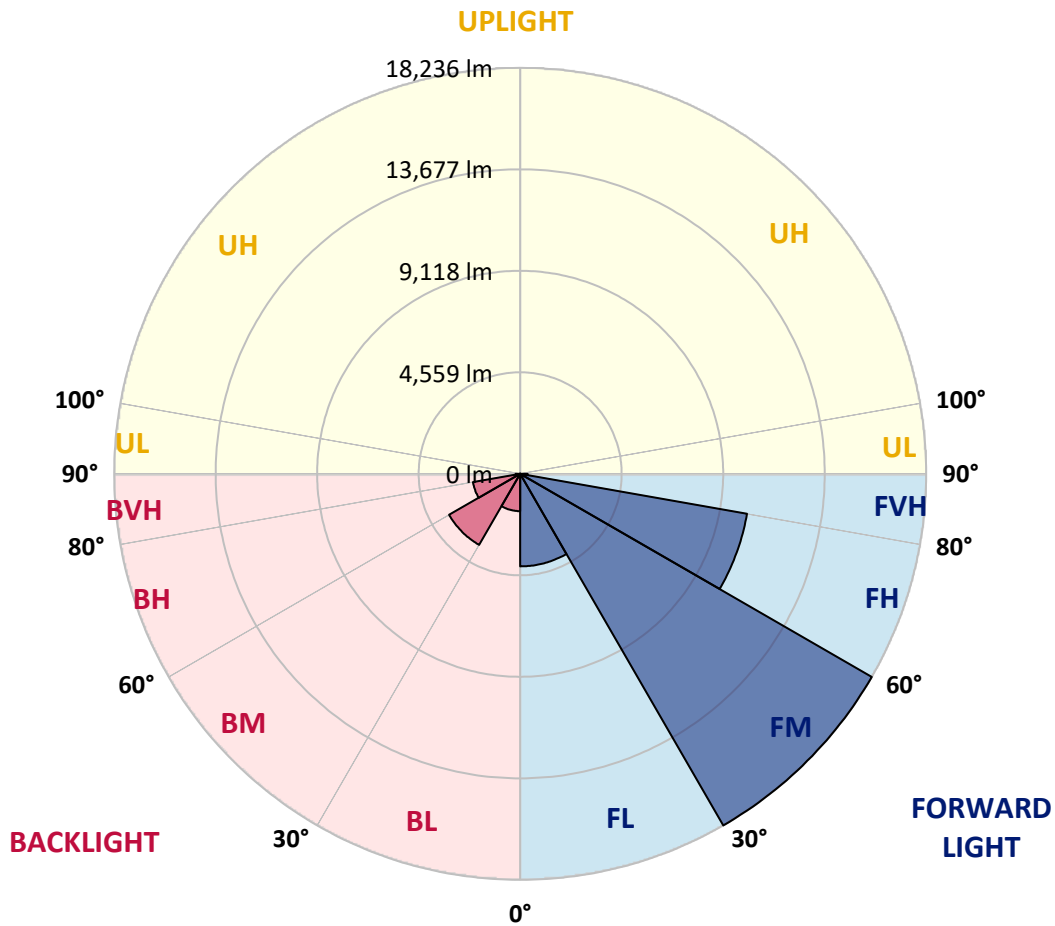
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4157.9	10.2			
FM (30°-60°)	18236.3	44.7			
FH (60°-80°)	10345.3	25.4			G4/12000
FVH (80°-90°)	333.8	0.8			G3/500
BL (0°-30°)	1677.6	4.1	B3/2500		
BM (30°-60°)	3685.6	9.0	B3/5000		
BH (60°-80°)	2152.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	200.0	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4785.8	4785.8	4785.8	4785.8	4785.8	4785.8	4785.8	4785.8	4785.8	4785.8
2.5°	5992.3	6034.4	5981.7	5981.7	5804.9	5712.2	5535.4	5400.6	5158.5	5116.4
5°	7082.9	7135.6	7061.9	7030.3	6821.8	6630.2	6333.4	6040.7	5609.1	5564.9
7.5°	7927.2	7994.6	7929.3	7895.7	7710.4	7495.6	7148.2	6739.7	6131.2	6044.9
10°	8615.7	8626.3	8605.2	8617.8	8472.6	8295.7	7939.9	7464.0	6703.9	6586.0
12.5°	9005.3	9053.7	9095.8	9171.6	9146.3	9036.8	8716.8	8148.3	7310.3	7158.7
15°	9188.4	9272.7	9367.4	9542.2	9683.2	9710.6	9466.4	8883.1	7927.2	7744.1
17.5°	9253.7	9333.7	9483.2	9735.9	10039.1	10243.3	10133.8	9596.9	8537.8	8327.3
20°	9584.3	9607.4	9698.0	9938.0	10266.5	10605.4	10687.6	10283.3	9142.1	8904.2
22.5°	10291.7	10245.4	10270.7	10380.1	10616.0	10944.4	11131.8	10889.7	9763.2	9489.5
25°	11460.3	11325.5	11190.8	11064.4	11184.5	11369.7	11582.4	11496.1	10413.8	10066.4
27.5°	12936.2	12772.0	12475.1	12060.3	11915.1	11980.3	12075.1	12058.2	11016.0	10664.4
30°	14389.0	14197.4	13843.7	13243.6	12860.4	12687.8	12616.2	12567.8	11670.8	11296.0
32.5°	15549.2	15397.6	15050.2	14378.5	13822.7	13527.9	13290.0	13117.3	12355.1	11980.3
35°	16564.0	16423.0	16025.0	15292.3	14688.0	14374.3	14062.7	13694.2	13066.8	12687.8
37.5°	17490.4	17349.4	16804.0	16041.9	15433.4	15216.5	14938.6	14313.2	13780.5	13422.6
40°	18075.8	18044.2	17534.7	16671.4	16039.8	15932.4	15839.7	15031.2	14572.2	14239.5
42.5°	18225.3	18294.7	17890.5	17180.9	16578.8	16492.4	16709.3	15843.9	15460.7	15142.8
45°	17865.2	18065.2	17800.0	17317.8	16962.0	16915.6	17479.9	16732.5	16444.0	16153.4
47.5°	16953.5	17292.5	17183.0	17115.7	17065.1	17265.2	18157.9	17675.7	17557.8	17305.2
50°	15113.3	15755.5	15947.1	16372.4	16860.9	17536.8	18774.8	18705.3	18859.0	18604.3
52.5°	11931.9	12816.2	13927.9	14993.3	16233.5	17446.2	19452.8	20183.4	20831.9	20692.9
55°	9849.6	10247.5	11102.3	13056.2	15016.5	17065.1	19758.1	21377.2	22790.0	22665.8
57.5°	8249.4	8605.2	9131.6	10763.4	13176.3	16199.8	19947.6	22105.7	24131.2	24118.6
60°	6533.4	6910.3	7449.3	8605.2	11026.5	14704.9	19905.5	22935.3	25843.0	25948.3
62.5°	4596.3	5011.1	5609.1	6687.1	8830.5	12767.8	19046.4	23535.4	27858.0	28144.3
65°	3021.4	3295.1	3745.7	4676.3	6579.7	10277.0	17406.2	23613.3	30014.0	30498.3
67.5°	2118.1	2223.4	2488.7	2994.0	4337.3	7880.9	14793.3	22806.8	31452.1	31997.4
70°	1652.8	1705.5	1840.2	2042.3	2724.5	5299.6	11336.0	20709.8	31144.7	31713.1
72.5°	1427.5	1478.1	1528.6	1553.9	1827.6	3272.0	7678.8	17315.7	28249.6	28634.9
75°	1294.9	1307.5	1349.6	1341.2	1393.8	2122.4	4432.1	12616.2	22288.9	22156.2
77.5°	1088.5	1105.4	1174.9	1164.3	1238.0	1450.7	2301.3	8142.0	14450.1	13548.9
80°	922.2	930.6	1006.4	993.8	1075.9	1050.6	1174.9	4150.0	6129.1	5192.2
82.5°	320.0	395.8	768.5	791.7	821.1	635.9	678.0	1692.8	1871.8	1433.9
85°	155.8	166.3	391.6	555.9	553.7	320.0	330.6	604.3	589.5	463.2
87.5°	25.3	31.6	46.3	216.9	172.7	84.2	113.7	117.9	122.1	105.3
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°
4785.8	0°	4785.8	4785.8	4785.8	4785.8	4785.8	4785.8	4785.8	4785.8	4785.8	4785.8
4956.4	2.5°	4838.5	4733.2	4512.1	4307.9	4147.8	3994.1	3907.8	3834.1	3792.0	3783.6
5188.0	5°	4969.0	4752.1	4350.0	4011.0	3789.9	3625.7	3539.4	3484.6	3457.2	3440.4
5499.6	7.5°	5156.4	4838.5	4265.8	3880.4	3648.8	3530.9	3486.7	3478.3	3476.2	3478.3
5876.5	10°	5415.4	4979.5	4257.3	3848.9	3655.2	3589.9	3587.8	3589.9	3598.3	3600.4
6287.0	12.5°	5695.4	5124.8	4291.0	3876.2	3735.2	3699.4	3693.1	3691.0	3697.3	3701.5
6701.8	15°	6000.7	5316.4	4347.9	3935.2	3823.6	3785.7	3779.4	3766.8	3764.6	3762.5
7137.7	17.5°	6314.4	5505.9	4411.0	3998.4	3880.4	3827.8	3804.7	3775.2	3752.0	3745.7
7588.2	20°	6632.3	5693.3	4455.3	4029.9	3884.7	3811.0	3764.6	3714.1	3674.1	3650.9
8043.0	22.5°	6971.3	5889.1	4482.6	4021.5	3846.8	3745.7	3661.5	3602.5	3541.5	3501.5
8502.0	25°	7301.9	6059.6	4480.5	3977.3	3773.1	3644.6	3537.3	3461.5	3377.2	3335.1
8975.8	27.5°	7619.8	6213.4	4427.9	3899.4	3667.8	3524.6	3396.2	3305.6	3223.5	3183.5
9453.7	30°	7948.3	6341.8	4345.8	3785.7	3543.6	3385.7	3244.6	3166.7	3093.0	3055.1
9959.0	32.5°	8274.6	6459.7	4230.0	3644.6	3400.4	3248.8	3109.8	3038.2	2994.0	2994.0
10502.3	35°	8619.9	6541.8	4076.3	3480.4	3248.8	3103.5	2994.0	2951.9	2947.7	2922.4
11077.1	37.5°	8984.2	6594.4	3888.9	3312.0	3099.3	2962.4	2928.8	2878.2	2836.1	2781.4
11708.7	40°	9367.4	6647.1	3663.6	3137.2	2941.4	2865.6	2850.9	2783.5	2663.5	2528.7
12424.6	42.5°	9832.7	6682.9	3429.9	2962.4	2775.1	2749.8	2770.8	2655.0	2463.4	2362.4
13287.9	45°	10371.7	6741.8	3215.1	2789.8	2604.5	2604.5	2692.9	2541.3	2383.4	2320.3
14273.2	47.5°	11070.8	6878.7	3015.1	2600.3	2446.6	2488.7	2520.3	2404.5	2316.1	2238.2
15473.4	50°	12081.4	7207.1	2808.7	2408.7	2326.6	2410.8	2366.6	2299.2	2196.0	2132.9
17381.0	52.5°	13336.3	7400.9	2625.6	2236.0	2223.4	2307.6	2244.5	2181.3	2103.4	2019.2
18827.4	55°	14191.1	7436.6	2471.9	2109.7	2153.9	2145.5	2122.4	2065.5	2023.4	1911.8
20255.0	57.5°	15147.0	7508.2	2345.5	2033.9	2109.7	2017.1	2008.7	1960.2	1905.5	1829.7
21996.2	60°	16290.3	7619.8	2236.0	2004.4	2071.8	1932.9	1890.7	1871.8	1817.1	1779.2
24091.2	62.5°	17536.8	7720.9	2124.5	2008.7	2027.6	1850.7	1787.6	1781.3	1747.6	1734.9
26057.8	65°	18387.4	7445.1	1985.5	2004.4	1958.1	1766.5	1686.5	1684.4	1657.0	1652.8
26910.5	67.5°	18090.5	6571.3	1798.1	1945.5	1886.5	1682.3	1593.9	1585.4	1549.7	1551.8
26019.9	70°	16604.0	5324.8	1539.1	1800.2	1798.1	1606.5	1497.0	1469.6	1421.2	1429.6
22623.7	72.5°	13816.3	3945.7	1191.7	1558.1	1657.0	1537.0	1385.4	1341.2	1280.1	1288.6
16700.9	75°	9978.0	2682.4	867.5	1185.4	1442.3	1454.9	1275.9	1200.1	1126.4	1139.1
9295.8	77.5°	5105.9	1520.2	638.0	816.9	1132.8	1322.3	1177.0	1075.9	1059.1	1177.0
2680.3	80°	1665.5	762.2	442.2	572.7	743.2	1082.2	1031.7	915.9	911.7	939.1
562.2	82.5°	496.9	322.1	284.2	376.9	410.6	829.6	890.6	692.7	595.9	627.4
187.4	85°	170.5	155.8	162.1	187.4	195.8	486.4	623.2	459.0	433.7	478.0
42.1	87.5°	40.0	54.7	46.3	42.1	42.1	117.9	242.1	191.6	265.3	176.9
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>
4785.8
3783.6
3438.3
3484.6
3602.5
3703.6
3760.4
3752.0
3659.4
3503.6
3335.1
3181.4
3053.0
2996.1
2916.1
2773.0
2509.8
2364.5
2330.8
2236.0
2126.6
2002.3
1913.9
1804.4
1789.7
1734.9
1650.7
1551.8
1438.1
1286.5
1143.3
1160.1
806.4
648.5
471.6
170.5
0.0

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