

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: P954903

Luminaire Tested: **GALN-SB8A-735-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954903
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-SB8A-735-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36946 lumens
Efficiency: N/A
Efficacy: 162.7 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

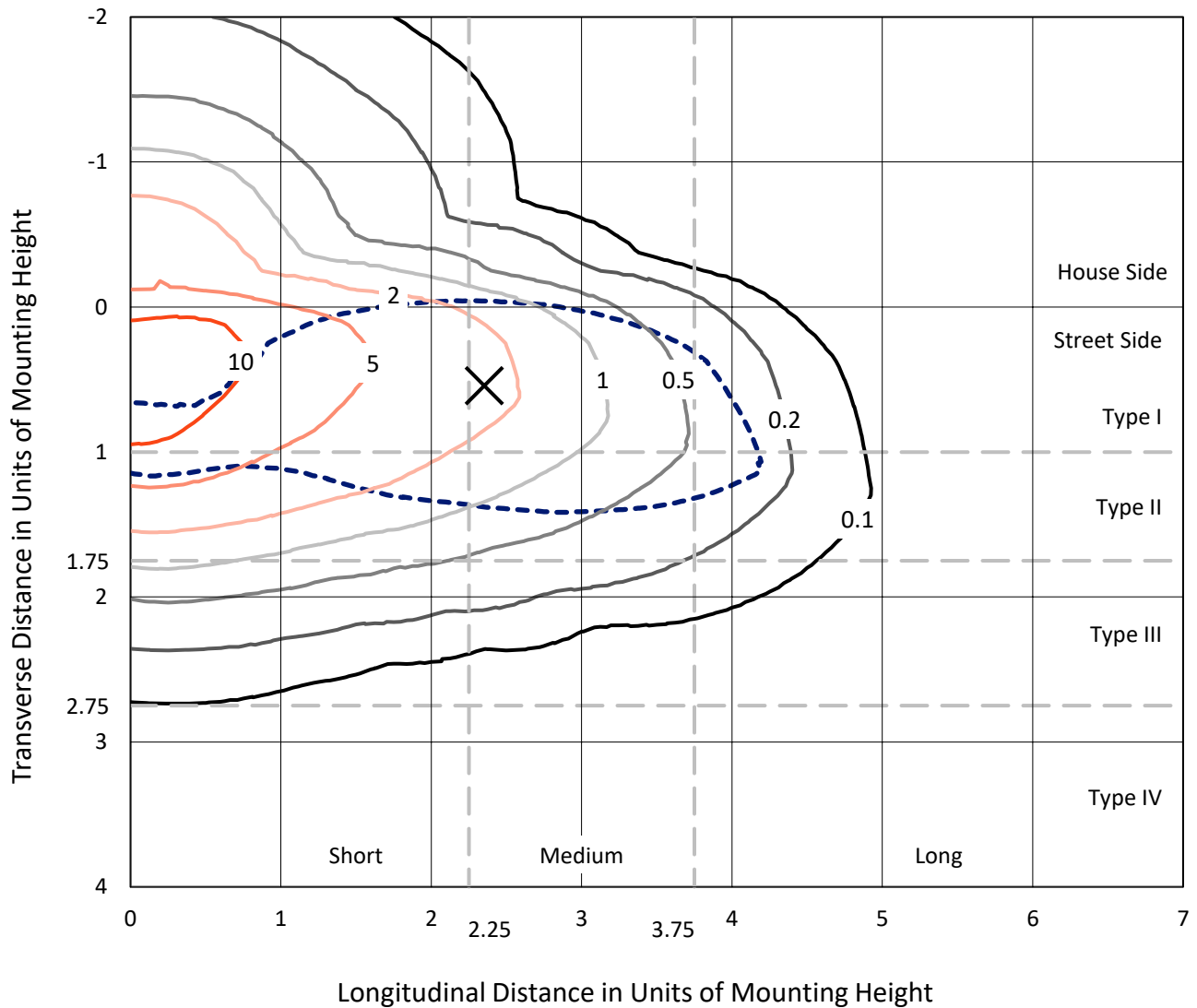
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

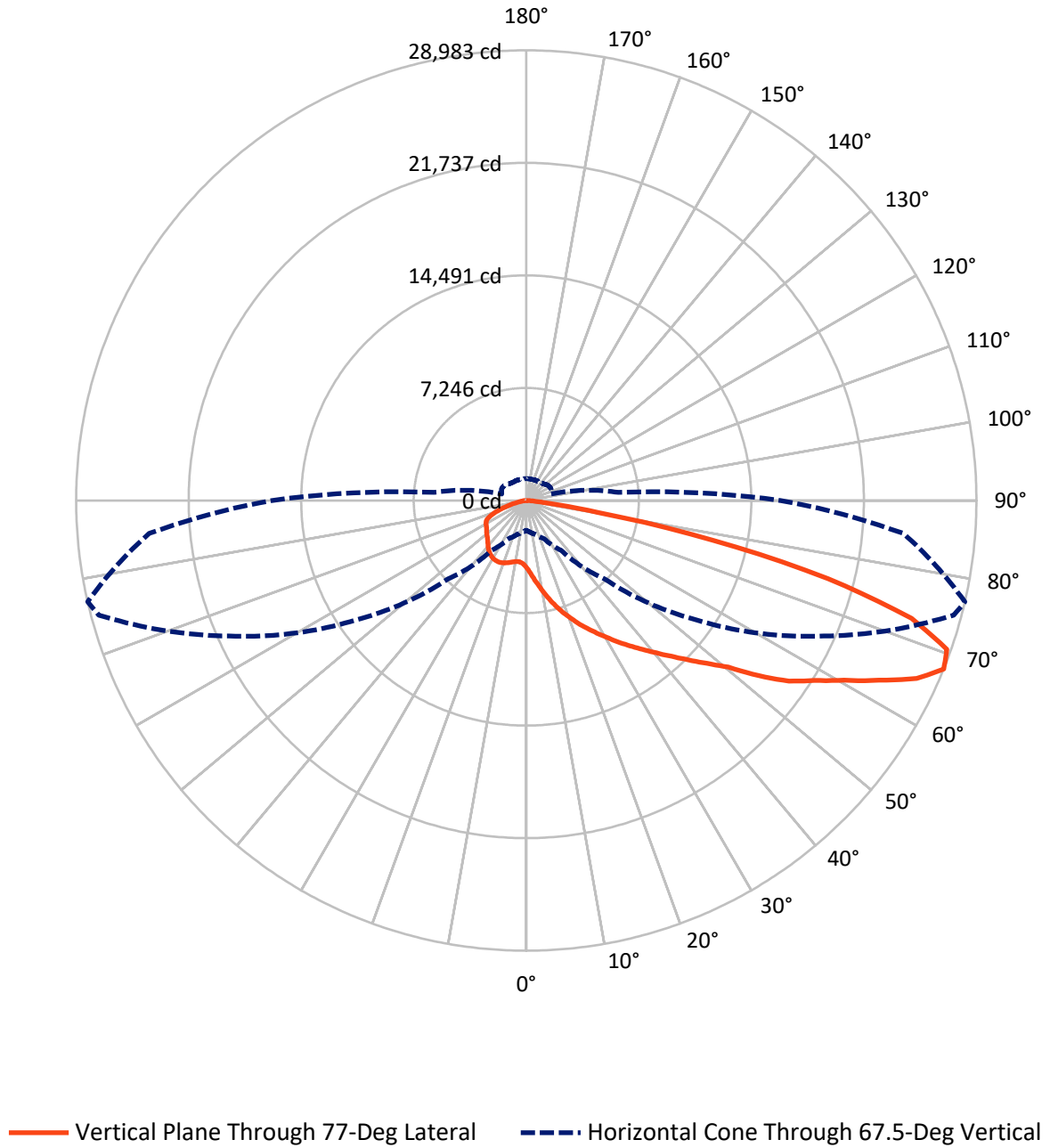
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	6988.7	0.0	6988.7
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	29957.3	0.0	29957.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	36946.0	0.0	36946.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.6	1.3
10°-20°	1669.3	4.5
20°-30°	3151.8	8.5
30°-40°	5077.4	13.7
40°-50°	6945.0	18.8
50°-60°	7834.0	21.2
60°-70°	7312.1	19.8
70°-80°	4008.3	10.8
80°-90°	483.5	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°	36946.0	100.0
0°-180°	36946.0	100.0



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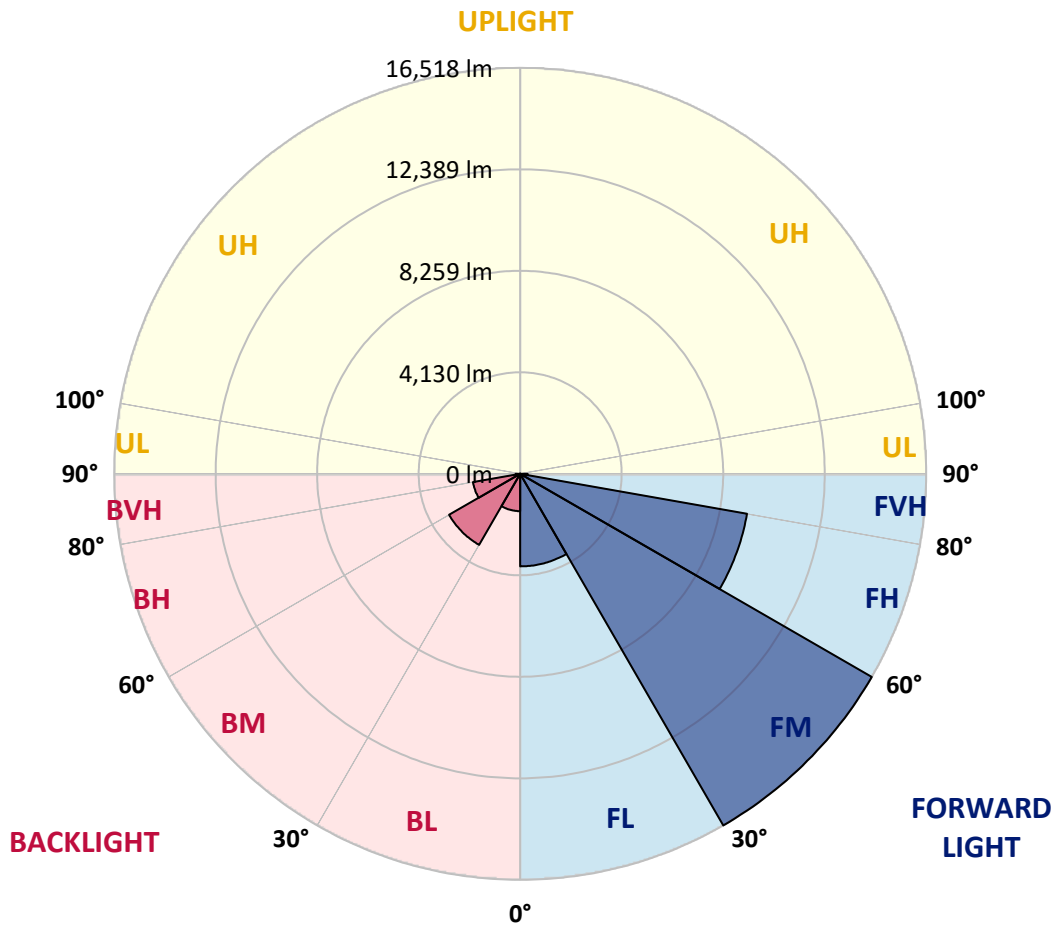
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3766.2	10.2			
FM (30°-60°)	16518.2	44.7			
FH (60°-80°)	9370.6	25.4			G4/12000
FVH (80°-90°)	302.4	0.8			G3/500
BL (0°-30°)	1519.5	4.1	B3/2500		
BM (30°-60°)	3338.3	9.0	B3/5000		
BH (60°-80°)	1949.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	181.1	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°	4334.9	4334.9	4334.9	4334.9	4334.9	4334.9	4334.9	4334.9	4334.9	4334.9
2.5°	5427.7	5465.8	5418.2	5418.2	5258.0	5174.1	5013.9	4891.8	4672.5	4634.3
5°	6415.6	6463.3	6396.5	6367.9	6179.1	6005.6	5736.7	5471.6	5080.6	5040.6
7.5°	7180.4	7241.4	7182.3	7151.7	6983.9	6789.4	6474.7	6104.7	5553.6	5475.4
10°	7804.0	7813.5	7794.5	7805.9	7674.3	7514.1	7191.8	6760.8	6072.3	5965.5
12.5°	8156.8	8200.7	8238.8	8307.5	8284.6	8185.4	7895.5	7380.6	6621.6	6484.3
15°	8322.7	8399.0	8484.8	8643.1	8770.9	8795.7	8574.5	8046.2	7180.4	7014.4
17.5°	8381.9	8454.3	8589.7	8818.6	9093.2	9278.2	9179.0	8692.7	7733.4	7542.7
20°	8681.3	8702.2	8784.3	9001.7	9299.2	9606.2	9680.6	9314.4	8280.8	8065.3
22.5°	9322.1	9280.1	9303.0	9402.2	9615.8	9913.3	10083.0	9863.7	8843.4	8595.4
25°	10380.5	10258.5	10136.4	10022.0	10130.7	10298.5	10491.1	10412.9	9432.7	9118.0
27.5°	11717.4	11568.7	11299.8	10924.1	10792.5	10851.6	10937.4	10922.2	9978.1	9659.6
30°	13033.3	12859.8	12539.4	11995.9	11648.8	11492.4	11427.5	11383.7	10571.2	10231.8
32.5°	14084.2	13946.9	13632.2	13023.8	12520.3	12253.3	12037.8	11881.4	11191.1	10851.6
35°	15003.4	14875.6	14515.2	13851.5	13304.2	13020.0	12737.7	12404.0	11835.7	11492.4
37.5°	15842.6	15714.8	15220.8	14530.4	13979.3	13782.9	13531.1	12964.7	12482.2	12158.0
40°	16372.7	16344.1	15882.6	15100.7	14528.5	14431.3	14347.4	13615.0	13199.3	12897.9
42.5°	16508.1	16571.1	16204.9	15562.2	15016.8	14938.6	15135.0	14351.2	14004.1	13716.1
45°	16182.0	16363.2	16122.9	15686.2	15363.9	15321.9	15833.0	15156.0	14894.7	14631.5
47.5°	15356.2	15663.3	15564.1	15503.1	15457.3	15638.5	16447.1	16010.4	15903.6	15674.7
50°	13689.4	14271.1	14444.6	14829.9	15272.3	15884.5	17005.9	16943.0	17082.2	16851.4
52.5°	10807.7	11608.7	12615.7	13580.7	14704.0	15802.5	17620.0	18281.8	18869.2	18743.3
55°	8921.6	9282.0	10056.3	11826.1	13601.7	15457.3	17896.5	19363.1	20642.8	20530.3
57.5°	7472.1	7794.5	8271.2	9749.3	11934.8	14673.5	18068.2	20023.0	21857.7	21846.2
60°	5917.8	6259.2	6747.4	7794.5	9987.7	13319.4	18030.0	20774.4	23408.2	23503.5
62.5°	4163.3	4539.0	5080.6	6057.1	7998.5	11564.9	17251.9	21317.9	25233.3	25492.6
65°	2736.7	2984.7	3392.8	4235.7	5959.8	9308.7	15766.3	21388.5	27186.2	27624.8
67.5°	1918.6	2013.9	2254.2	2711.9	3928.7	7138.4	13399.5	20658.1	28488.8	28982.7
70°	1497.1	1544.8	1666.8	1849.9	2467.8	4800.3	10268.0	18758.6	28210.3	28725.2
72.5°	1293.0	1338.8	1384.6	1407.5	1655.4	2963.7	6955.3	15684.3	25588.0	25937.0
75°	1172.9	1184.3	1222.5	1214.8	1262.5	1922.4	4014.5	11427.5	20188.9	20068.8
77.5°	986.0	1001.2	1064.2	1054.6	1121.4	1314.0	2084.5	7374.9	13088.7	12272.4
80°	835.3	843.0	911.6	900.2	974.5	951.7	1064.2	3759.0	5551.7	4703.0
82.5°	289.9	358.5	696.1	717.1	743.8	576.0	614.1	1533.3	1695.4	1298.8
85°	141.1	150.7	354.7	503.5	501.6	289.9	299.4	547.3	534.0	419.6
87.5°	22.9	28.6	42.0	196.4	156.4	76.3	103.0	106.8	110.6	95.4
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°
4334.9	0°	4334.9	4334.9	4334.9	4334.9	4334.9	4334.9	4334.9	4334.9	4334.9	4334.9
4489.4	2.5°	4382.6	4287.2	4087.0	3902.0	3757.1	3617.8	3539.6	3472.9	3434.7	3427.1
4699.2	5°	4500.8	4304.4	3940.1	3633.1	3432.8	3284.1	3205.9	3156.3	3131.5	3116.3
4981.4	7.5°	4670.6	4382.6	3863.9	3514.8	3305.1	3198.3	3158.2	3150.6	3148.7	3150.6
5322.8	10°	4905.1	4510.4	3856.2	3486.2	3310.8	3251.7	3249.8	3251.7	3259.3	3261.2
5694.7	12.5°	5158.8	4642.0	3886.7	3511.0	3383.3	3350.8	3345.1	3343.2	3348.9	3352.7
6070.4	15°	5435.3	4815.5	3938.2	3564.4	3463.4	3429.0	3423.3	3411.9	3410.0	3408.0
6465.2	17.5°	5719.5	4987.2	3995.4	3621.6	3514.8	3467.2	3446.2	3419.5	3398.5	3392.8
6873.3	20°	6007.5	5156.9	4035.5	3650.3	3518.7	3451.9	3410.0	3364.2	3327.9	3307.0
7285.2	22.5°	6314.5	5334.3	4060.3	3642.6	3484.3	3392.8	3316.5	3263.1	3207.8	3171.6
7701.0	25°	6613.9	5488.7	4058.4	3602.6	3417.6	3301.2	3204.0	3135.3	3059.0	3020.9
8130.1	27.5°	6901.9	5627.9	4010.7	3532.0	3322.2	3192.5	3076.2	2994.2	2919.8	2883.6
8563.0	30°	7199.4	5744.3	3936.3	3429.0	3209.7	3066.7	2938.9	2868.3	2801.6	2767.3
9020.7	32.5°	7495.0	5851.1	3831.4	3301.2	3080.0	2942.7	2816.8	2752.0	2711.9	2711.9
9512.8	35°	7807.8	5925.5	3692.2	3152.5	2942.7	2811.1	2711.9	2673.8	2670.0	2647.1
10033.4	37.5°	8137.7	5973.1	3522.5	2999.9	2807.3	2683.3	2652.8	2607.1	2568.9	2519.3
10605.6	40°	8484.8	6020.8	3318.4	2841.6	2664.3	2595.6	2582.3	2521.2	2412.5	2290.5
11254.0	42.5°	8906.3	6053.2	3106.7	2683.3	2513.6	2490.7	2509.8	2404.9	2231.3	2139.8
12035.9	45°	9394.5	6106.6	2912.2	2527.0	2359.1	2359.1	2439.2	2301.9	2158.9	2101.7
12928.5	47.5°	10027.7	6230.6	2731.0	2355.3	2216.1	2254.2	2282.8	2177.9	2097.8	2027.3
14015.5	50°	10943.1	6528.1	2544.1	2181.8	2107.4	2183.7	2143.6	2082.6	1989.1	1931.9
15743.4	52.5°	12079.8	6703.6	2378.2	2025.4	2013.9	2090.2	2033.0	1975.8	1905.2	1828.9
17053.6	55°	12854.1	6736.0	2239.0	1910.9	1951.0	1943.4	1922.4	1870.9	1832.8	1731.7
18346.6	57.5°	13719.9	6800.8	2124.5	1842.3	1910.9	1827.0	1819.4	1775.5	1726.0	1657.3
19923.8	60°	14755.5	6901.9	2025.4	1815.6	1876.6	1750.7	1712.6	1695.4	1645.9	1611.5
21821.4	62.5°	15884.5	6993.5	1924.3	1819.4	1836.6	1676.4	1619.2	1613.4	1582.9	1571.5
23602.7	65°	16655.0	6743.6	1798.4	1815.6	1773.6	1600.1	1527.6	1525.7	1500.9	1497.1
24375.1	67.5°	16386.1	5952.2	1628.7	1762.2	1708.8	1523.8	1443.7	1436.1	1403.6	1405.6
23568.4	70°	15039.7	4823.1	1394.1	1630.6	1628.7	1455.1	1356.0	1331.2	1287.3	1294.9
20492.1	72.5°	12514.6	3574.0	1079.4	1411.3	1500.9	1392.2	1254.9	1214.8	1159.5	1167.2
15127.4	75°	9037.9	2429.7	785.7	1073.7	1306.4	1317.8	1155.7	1087.1	1020.3	1031.8
8420.0	77.5°	4624.8	1377.0	577.9	740.0	1026.0	1197.7	1066.1	974.5	959.3	1066.1
2427.8	80°	1508.5	690.4	400.5	518.7	673.2	980.3	934.5	829.6	825.8	850.6
509.2	82.5°	450.1	291.8	257.5	341.4	371.9	751.4	806.7	627.4	539.7	568.3
169.7	85°	154.5	141.1	146.8	169.7	177.4	440.5	564.5	415.8	392.9	432.9
38.1	87.5°	36.2	49.6	42.0	38.1	38.1	106.8	219.3	173.5	240.3	160.2
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>
4334.9
3427.1
3114.3
3156.3
3263.1
3354.6
3406.1
3398.5
3314.6
3173.5
3020.9
2881.7
2765.3
2713.9
2641.4
2511.7
2273.3
2141.7
2111.2
2025.4
1926.2
1813.7
1733.6
1634.4
1621.1
1571.5
1495.2
1405.6
1302.6
1165.3
1035.6
1050.8
730.4
587.4
427.2
154.5
0.0

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