

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: P940624

Luminaire Tested: **GALN-SB3D-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23588 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

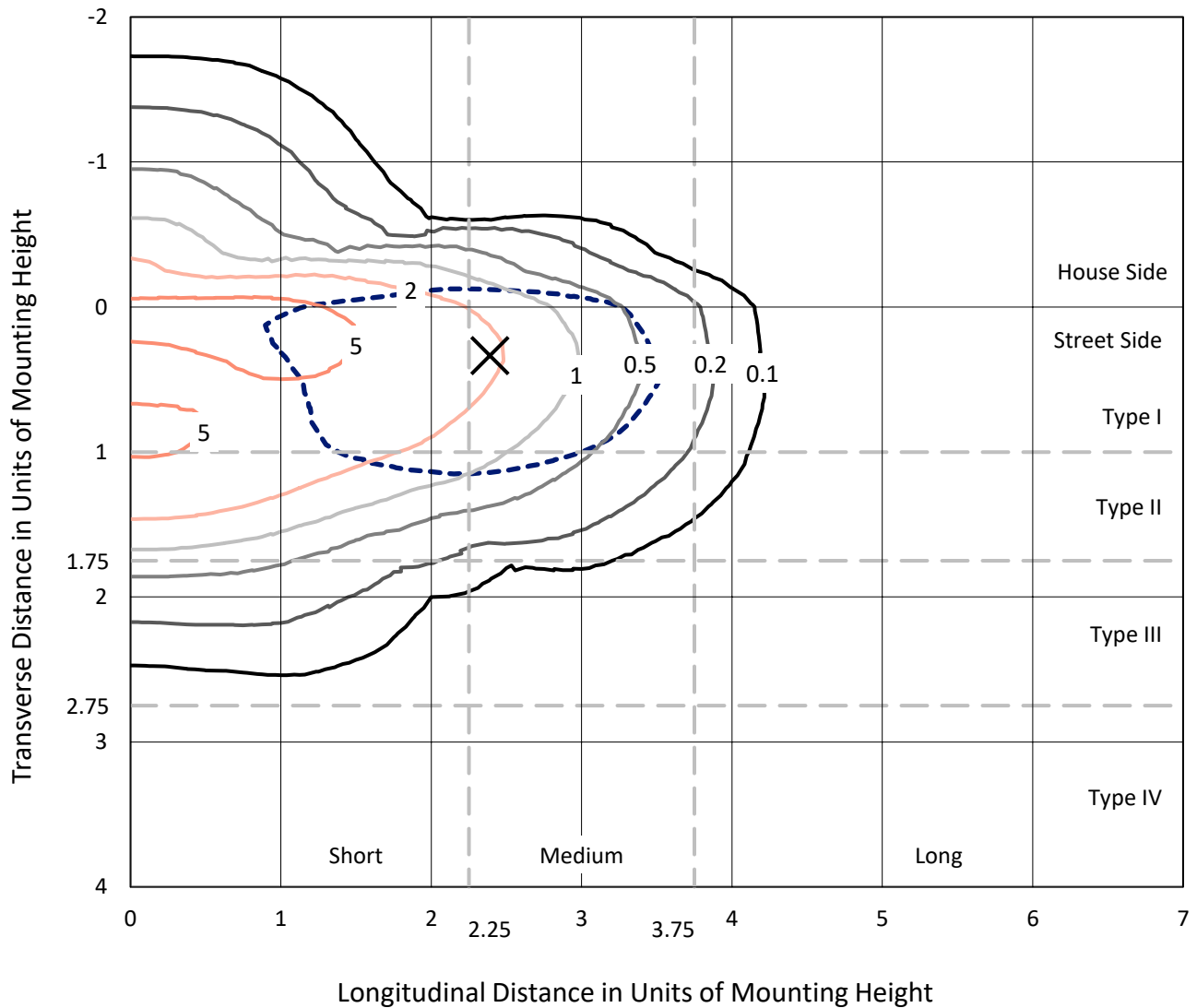
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

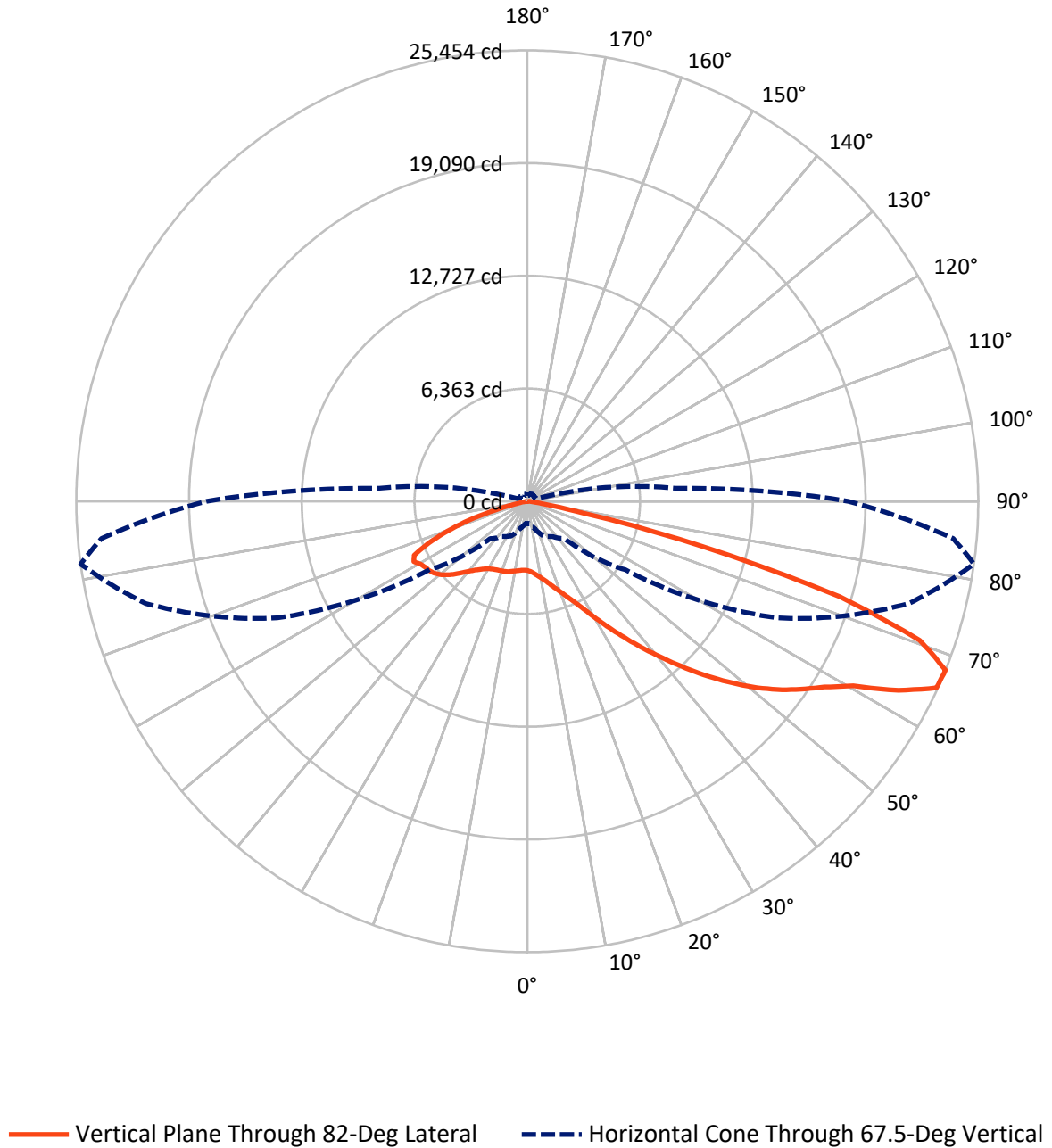
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	4272.8	0.0	4272.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	19315.2	0.0	19315.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	23588.0	0.0	23588.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.2	1.5
10°-20°	904.7	3.8
20°-30°	1449.0	6.1
30°-40°	2562.3	10.9
40°-50°	4489.5	19.0
50°-60°	5987.7	25.4
60°-70°	5574.3	23.6
70°-80°	2139.4	9.1
80°-90°	132.9	0.6
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°	23588.0	100.0
0°-180°	23588.0	100.0

Coefficient of Utilization



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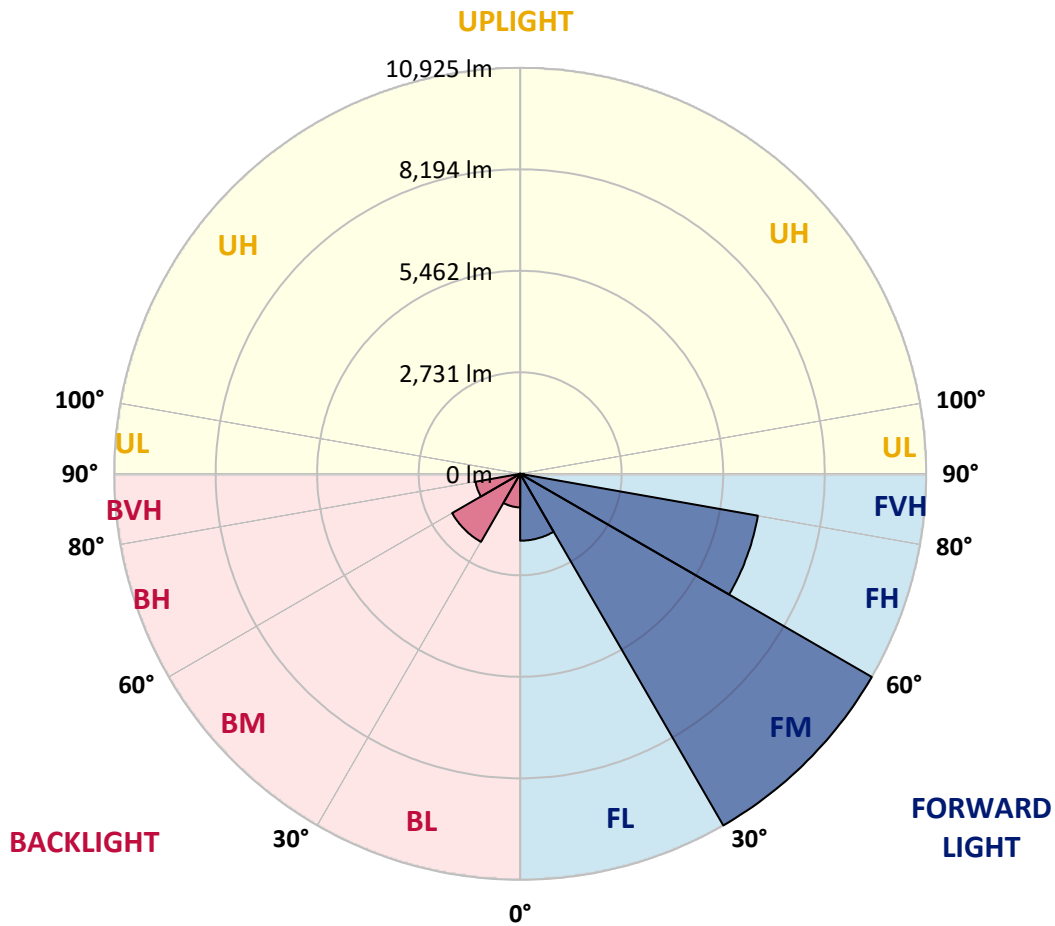
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1799.5	7.6			
FM (30°-60°)	10925.0	46.3			
FH (60°-80°)	6494.1	27.5			G3/7500
FVH (80°-90°)	96.6	0.4			G1/100
BL (0°-30°)	902.4	3.8	B2/1000		
BM (30°-60°)	2114.6	9.0	B2/2500		
BH (60°-80°)	1219.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	36.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7
2.5°	4130.2	4154.0	4140.4	4133.6	4121.7	4104.7	4091.1	4048.7	4004.5	3975.7
5°	4213.4	4237.2	4235.5	4242.3	4250.8	4255.9	4252.5	4204.9	4142.1	4092.8
7.5°	4142.1	4169.3	4191.3	4225.3	4284.8	4347.6	4378.2	4368.0	4303.4	4235.5
10°	3940.0	3968.9	4021.5	4101.3	4227.0	4362.9	4476.7	4529.3	4488.5	4413.8
12.5°	3569.8	3598.6	3702.2	3875.5	4086.1	4322.1	4539.5	4680.4	4690.6	4615.9
15°	3153.7	3182.6	3293.0	3510.3	3831.3	4210.0	4573.5	4840.1	4930.1	4865.6
17.5°	2895.6	2921.0	3004.3	3179.2	3513.7	3985.9	4561.6	5009.9	5215.4	5164.5
20°	2817.4	2839.5	2878.6	3000.9	3279.4	3753.2	4483.4	5169.6	5522.8	5493.9
22.5°	2900.7	2921.0	2932.9	2987.3	3162.2	3600.3	4384.9	5332.6	5879.4	5882.8
25°	3092.6	3112.9	3099.4	3133.3	3209.7	3552.8	4347.6	5524.5	6327.8	6365.1
27.5°	3408.4	3410.1	3377.9	3376.2	3388.1	3624.1	4386.6	5730.0	6893.3	6962.9
30°	4041.9	4016.4	3892.4	3758.3	3697.1	3838.1	4495.3	5972.8	7560.7	7684.7
32.5°	5018.4	4981.0	4753.5	4432.5	4109.8	4182.9	4690.6	6249.7	8287.6	8511.8
35°	6078.1	6067.9	5830.2	5353.0	4789.1	4673.7	5008.2	6613.1	9080.7	9437.3
37.5°	7063.1	7058.0	6922.2	6360.0	5673.9	5358.1	5517.7	7088.6	9929.8	10446.1
40°	7963.2	7978.5	7842.6	7339.9	6648.8	6236.1	6210.6	7676.2	10874.1	11544.9
42.5°	8741.0	8758.0	8620.4	8248.5	7611.7	7207.5	7061.4	8396.3	11796.2	12725.2
45°	9269.2	9374.5	9354.1	9056.9	8600.1	8180.6	8083.8	9299.8	12847.5	13976.8
47.5°	9418.6	9515.4	9668.3	9709.0	9430.5	9017.8	9133.3	10388.4	13910.6	15230.1
50°	9050.1	9140.1	9457.7	9880.6	10074.2	9946.8	10154.0	11555.1	14999.2	16480.1
52.5°	8323.3	8415.0	8815.8	9484.9	10274.6	10675.4	11178.1	12704.8	16053.8	17663.8
55°	7272.0	7368.8	7883.4	8640.8	9892.5	10976.0	12032.3	13852.8	17020.1	18728.6
57.5°	5842.1	5913.4	6448.4	7508.1	8931.2	10677.1	12662.3	15106.2	17930.4	19774.7
60°	3807.5	3870.4	4491.9	5673.9	7338.3	9678.5	12788.0	16503.8	19139.6	21135.0
62.5°	2532.1	2574.6	2943.1	3810.9	5167.9	7761.1	12052.7	17619.6	20912.6	23502.4
65°	1737.3	1779.8	2148.3	2752.9	3338.8	5133.9	9938.3	17471.9	22519.1	25382.4
67.5°	1239.7	1275.4	1587.9	2158.5	2416.6	2982.2	6737.1	15583.4	22288.2	25453.8
70°	888.2	908.6	1166.7	1681.3	1920.8	1791.7	3746.4	11918.5	19514.9	23504.1
72.5°	621.6	628.4	810.1	1280.5	1547.1	1307.7	1783.2	7946.2	14759.7	18448.4
75°	421.2	429.7	545.1	939.1	1241.4	998.6	944.2	4261.0	8664.6	10211.7
77.5°	258.1	261.5	351.5	641.9	929.0	760.8	608.0	1805.3	3352.4	3291.3
80°	146.1	146.1	224.2	399.1	633.5	490.8	426.3	767.6	1061.4	932.4
82.5°	81.5	83.2	163.0	247.9	419.5	290.4	234.4	354.9	458.5	405.9
85°	34.0	37.4	100.2	117.2	200.4	144.4	95.1	149.4	169.8	151.1
87.5°	3.4	5.1	30.6	22.1	23.8	28.9	13.6	28.9	23.8	23.8
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°
3907.7	0°	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7
3965.5	2.5°	3933.2	3907.7	3843.2	3768.5	3670.0	3622.4	3557.9	3513.7	3476.4	3479.8
4064.0	5°	4009.6	3945.1	3800.7	3620.7	3396.6	3236.9	3067.1	2949.9	2854.8	2834.4
4199.8	7.5°	4114.9	4013.0	3760.0	3435.6	3056.9	2769.9	2513.4	2348.7	2231.5	2194.2
4364.6	10°	4250.8	4103.0	3707.3	3202.9	2657.8	2292.7	2017.6	1888.5	1808.7	1781.5
4558.2	12.5°	4408.7	4206.6	3637.7	2919.3	2246.8	1895.3	1720.4	1655.8	1630.3	1621.9
4795.9	15°	4607.4	4335.7	3532.4	2583.1	1898.7	1652.4	1577.7	1569.2	1572.6	1569.2
5081.2	17.5°	4843.5	4476.7	3360.9	2236.6	1664.3	1528.4	1501.3	1508.1	1516.6	1514.9
5400.5	20°	5101.6	4615.9	3141.8	1929.2	1504.7	1440.1	1424.9	1431.6	1438.4	1435.0
5769.0	22.5°	5395.4	4765.4	2899.0	1689.8	1397.7	1358.6	1341.6	1343.3	1343.3	1336.5
6236.1	25°	5747.0	4930.1	2644.2	1520.0	1316.2	1285.6	1265.2	1258.4	1248.2	1227.9
6803.3	27.5°	6166.4	5105.0	2399.7	1401.1	1251.6	1222.8	1199.0	1182.0	1156.5	1122.6
7484.3	30°	6638.6	5317.3	2192.5	1326.4	1200.7	1171.8	1144.6	1119.2	1081.8	1039.3
8267.2	32.5°	7193.9	5544.9	2041.3	1277.1	1154.8	1124.3	1092.0	1061.4	1020.7	978.2
9146.9	35°	7856.2	5820.0	1953.0	1243.1	1119.2	1078.4	1042.7	1008.8	978.2	940.8
10103.0	37.5°	8574.6	6112.1	1925.8	1226.2	1095.4	1032.6	991.8	968.0	964.6	942.5
11137.3	40°	9360.9	6458.5	1946.2	1216.0	1069.9	988.4	944.2	939.1	947.6	908.6
12242.9	42.5°	10193.1	6869.5	1980.2	1204.1	1034.3	944.2	901.8	901.8	895.0	840.6
13411.3	45°	11093.1	7343.3	2014.2	1175.2	991.8	900.1	867.8	855.9	827.1	774.4
14586.5	47.5°	12000.0	7825.7	2039.6	1122.6	940.8	862.7	833.9	806.7	764.2	716.7
15739.6	50°	12861.0	8258.7	2012.5	1044.4	883.1	827.1	796.5	759.1	713.3	681.0
16831.6	52.5°	13630.4	8634.0	1897.0	952.7	822.0	789.7	762.5	723.5	686.1	652.1
17816.6	55°	14299.5	8938.0	1693.2	866.1	767.6	757.4	730.3	681.0	630.1	601.2
18793.1	57.5°	14941.4	9169.0	1438.4	794.8	718.4	721.8	681.0	636.9	589.3	558.7
20109.3	60°	15795.7	9478.1	1180.3	728.6	665.7	675.9	631.8	599.5	540.1	501.0
22366.3	62.5°	17161.1	9958.7	937.4	647.0	604.6	608.0	589.3	550.2	478.9	433.1
24039.1	65°	18244.6	9782.1	738.8	558.7	535.0	540.1	540.1	497.6	421.2	368.5
24129.1	67.5°	18122.3	8375.9	589.3	472.1	468.7	472.1	484.0	448.3	373.6	331.2
22291.6	70°	16694.1	6662.3	472.1	392.3	407.6	399.1	433.1	409.3	336.3	293.8
17281.7	72.5°	13621.9	4799.3	360.0	324.4	312.5	326.1	390.6	368.5	280.2	232.7
9153.7	75°	7959.8	2561.0	268.3	256.4	225.9	271.7	346.4	314.2	214.0	171.5
2805.6	77.5°	2591.6	893.3	197.0	188.5	168.1	219.1	295.5	264.9	174.9	135.9
822.0	80°	694.6	270.0	134.2	124.0	108.7	163.0	234.4	210.6	125.7	88.3
353.2	82.5°	278.5	113.8	78.1	69.6	59.4	112.1	185.1	169.8	93.4	56.0
110.4	85°	90.0	37.4	28.9	22.1	27.2	69.6	110.4	115.5	66.2	28.9
17.0	87.5°	11.9	5.1	5.1	6.8	5.1	11.9	34.0	32.3	18.7	3.4
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>
3907.7
3445.8
2788.6
2156.8
1761.1
1616.8
1567.5
1511.5
1433.3
1333.1
1224.5
1119.2
1035.9
979.9
937.4
940.8
910.3
840.6
772.7
715.0
675.9
648.7
597.8
555.3
495.9
429.7
363.4
324.4
288.7
227.6
166.4
130.8
86.6
56.0
22.1
0.0
0.0

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