

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: P943465

Luminaire Tested: **GALN-SB7D-950-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-950-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49882 lumens
Efficiency: N/A
Efficacy: 97.3 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

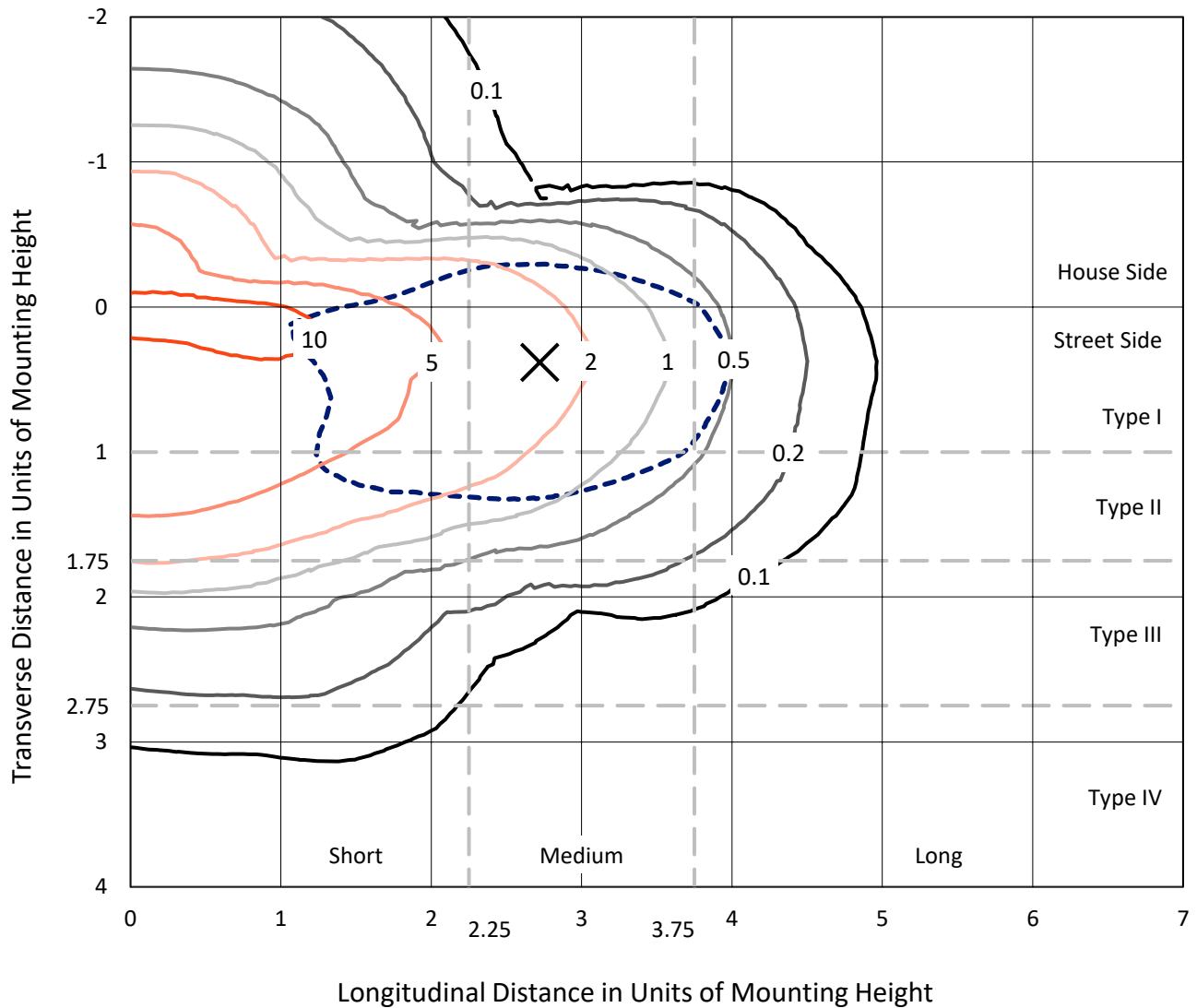
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

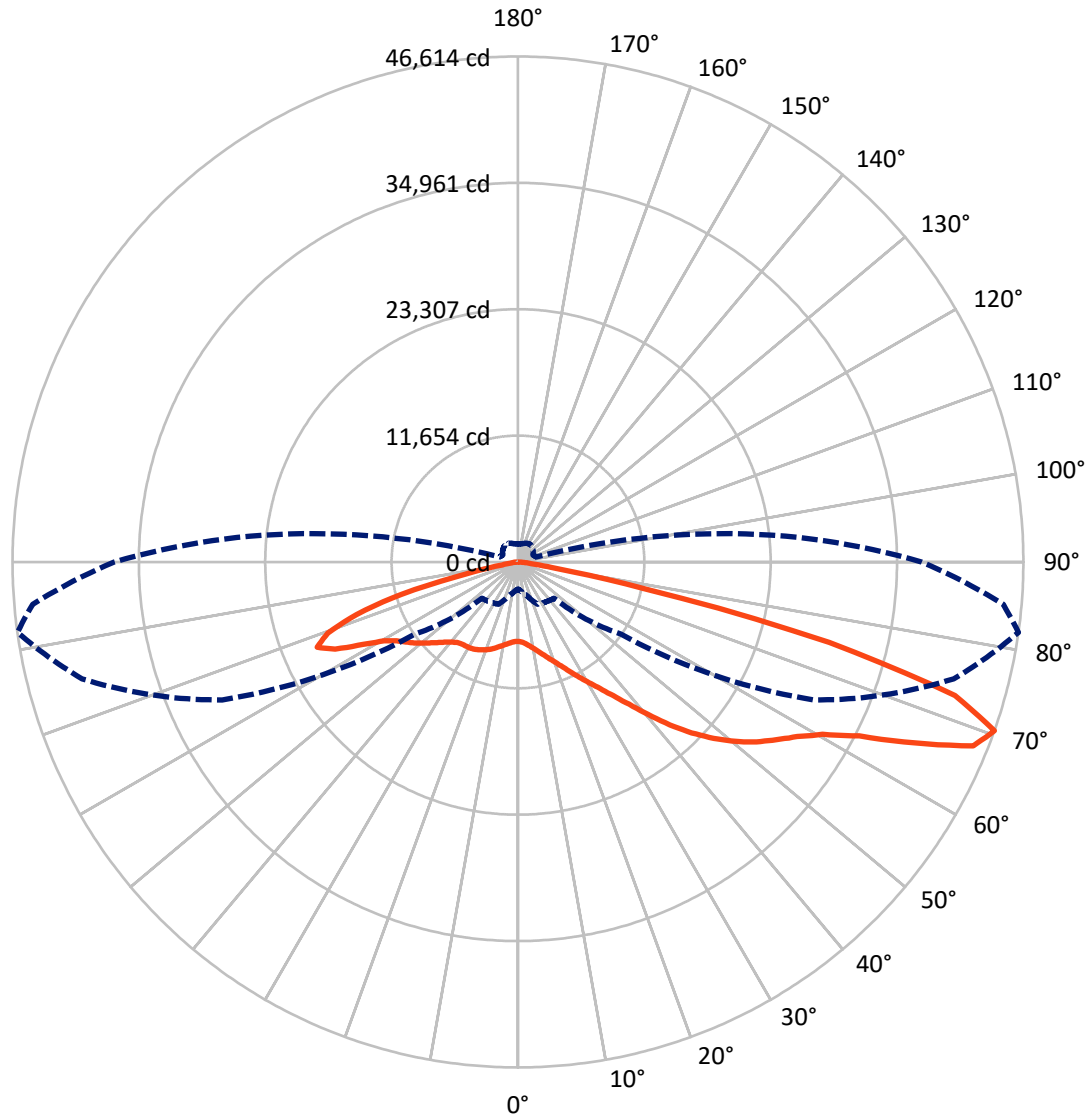
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12297.1	0.0	12297.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	37584.9	0.0	37584.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	49882.0	0.0	49882.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.5	1.4
10°-20°	1983.9	4.0
20°-30°	3318.8	6.7
30°-40°	5184.8	10.4
40°-50°	8257.5	16.6
50°-60°	11491.3	23.0
60°-70°	12020.4	24.1
70°-80°	6282.5	12.6
80°-90°	652.4	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°	49882.0	100.0
0°-180°	49882.0	100.0

Coefficient of Utilization



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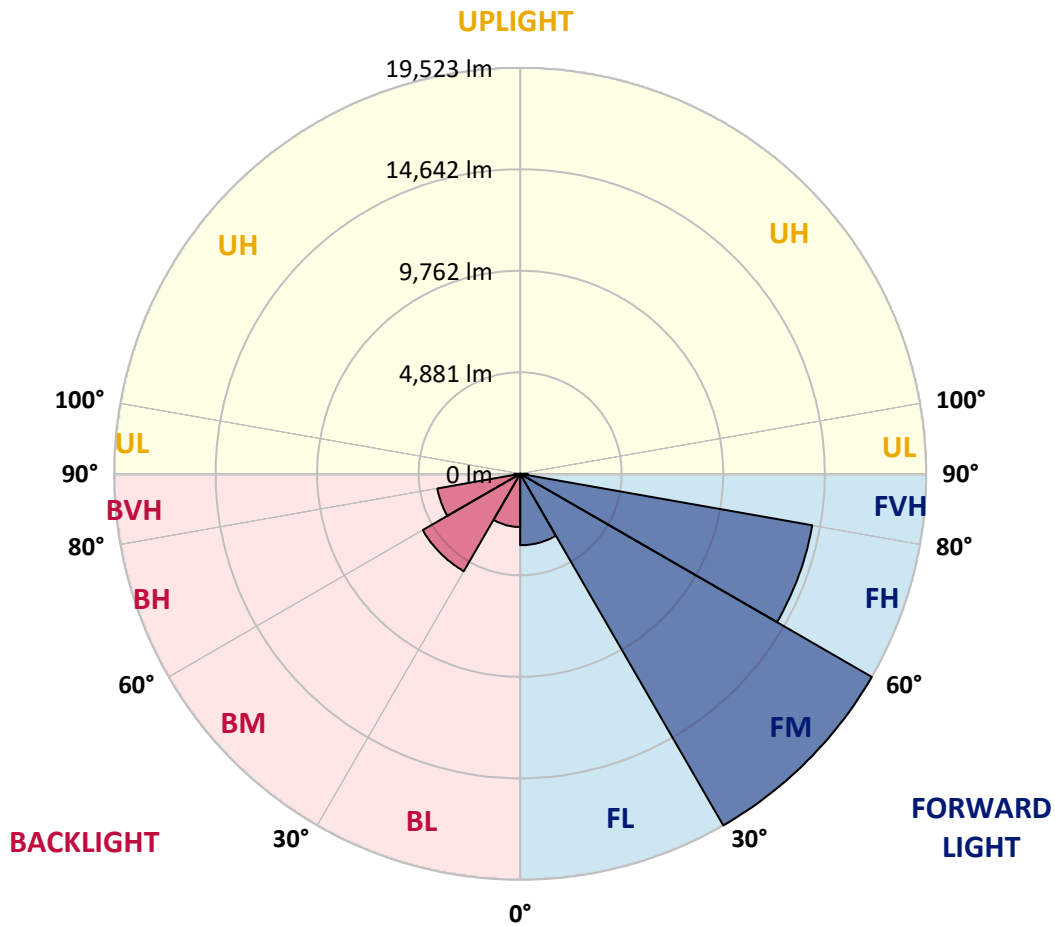
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3434.9	6.9			
FM (30°-60°)	19523.3	39.1			
FH (60°-80°)	14261.4	28.6			G5
FVH (80°-90°)	365.2	0.7			G3/500
BL (0°-30°)	2558.3	5.1	B4/5000		
BM (30°-60°)	5410.3	10.8	B4/8500		
BH (60°-80°)	4041.5	8.1	B4/5000		G4/5000
BVH (80°-90°)	287.2	0.6			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°	82°
0°	7313.3	7313.3	7313.3	7313.3	7313.3	7313.3	7313.3	7313.3	7313.3	7313.3
2.5°	7488.0	7530.4	7517.1	7503.9	7503.9	7485.4	7482.7	7456.3	7435.1	7400.7
5°	7583.3	7628.3	7623.0	7633.6	7668.0	7675.9	7683.9	7668.0	7625.7	7583.3
7.5°	7498.6	7548.9	7564.8	7628.3	7734.2	7829.5	7900.9	7930.0	7890.3	7829.5
10°	7212.7	7268.3	7323.9	7474.8	7662.7	7887.7	8078.3	8192.1	8184.1	8125.9
12.5°	6633.1	6691.3	6810.4	7104.2	7448.3	7845.3	8200.0	8438.2	8520.3	8478.0
15°	6169.9	6220.2	6310.2	6611.9	7059.2	7662.7	8245.0	8708.2	8917.3	8893.5
17.5°	6156.6	6177.8	6233.4	6376.3	6720.4	7376.9	8197.4	8972.9	9372.6	9369.9
20°	6389.6	6397.5	6429.3	6458.4	6654.3	7159.8	8075.6	9192.6	9883.4	9883.4
22.5°	6712.5	6707.2	6739.0	6712.5	6807.8	7141.3	7998.9	9385.8	10452.5	10494.9
25°	7196.9	7170.4	7162.5	7101.6	7120.1	7313.3	8083.6	9605.5	11127.5	11214.8
27.5°	7842.7	7800.4	7771.2	7631.0	7583.3	7668.0	8343.0	9870.2	11879.2	12030.1
30°	8684.4	8607.6	8565.3	8321.8	8149.7	8163.0	8734.7	10222.2	12665.3	12908.8
32.5°	9833.2	9714.0	9600.2	9200.5	8885.6	8782.3	9240.3	10709.3	13517.6	13906.7
35°	11119.5	11024.2	10902.5	10285.8	9801.4	9563.2	9923.1	11389.5	14515.5	15132.2
37.5°	12358.3	12276.2	12334.5	11503.3	10878.7	10531.9	10817.8	12302.7	15746.3	16656.8
40°	13639.4	13575.8	13583.8	12789.7	12061.8	11672.7	11903.0	13448.8	17157.1	18469.9
42.5°	15031.6	14984.0	14825.2	14121.1	13303.2	12940.6	13152.3	14772.2	18671.1	20534.5
45°	16590.6	16561.5	16413.3	15606.0	14669.0	14261.4	14547.2	16233.3	20193.0	22477.3
47.5°	17937.9	17961.7	17943.2	17262.9	16291.5	15693.3	16034.8	17757.9	21609.1	24303.6
50°	18586.4	18710.8	18893.4	18681.7	18078.2	17469.4	17535.6	19229.6	22959.0	26016.2
52.5°	18247.6	18483.2	18980.8	19319.6	19552.5	19425.4	19248.1	20690.6	24229.5	27561.9
55°	16985.0	17315.9	18141.7	18959.6	20148.0	21071.8	21304.7	22310.5	25468.3	28922.4
57.5°	14684.9	15222.2	15963.3	17617.6	19618.7	21868.5	23702.8	24557.7	26781.1	30375.6
60°	10741.0	11461.0	12382.1	14843.7	17765.8	21442.4	25743.5	28009.3	28647.2	32257.5
62.5°	6873.9	7318.6	8165.6	10484.3	13843.2	19258.7	26368.2	32323.7	31810.2	35343.8
65°	4706.1	4992.0	5767.5	7069.8	8949.1	14335.5	24695.4	35558.2	36834.0	40235.2
67.5°	3419.8	3636.8	4298.5	5439.3	5831.1	8483.2	19163.4	35409.9	41717.5	45274.9
70°	2493.4	2646.9	3202.7	4298.5	4486.5	4719.4	11609.2	30100.3	41611.6	46614.2
72.5°	1847.5	1953.4	2326.6	3335.1	3631.5	3186.8	5746.4	21876.4	35756.7	42162.1
75°	1336.7	1416.1	1691.4	2551.6	2906.3	2427.2	2866.6	12784.4	24941.5	29658.3
77.5°	1021.7	1082.6	1262.6	1868.7	2326.6	1821.1	1778.7	5881.4	11826.3	11884.5
80°	820.5	860.2	958.2	1315.5	1784.0	1363.1	1159.3	2374.2	3737.4	3163.0
82.5°	603.5	669.7	809.9	923.8	1275.8	939.6	706.7	1199.0	1421.4	1222.9
85°	344.1	389.1	489.7	661.7	815.2	574.4	405.0	532.0	661.7	542.6
87.5°	121.8	158.8	172.0	259.4	354.7	238.2	156.2	153.5	217.0	161.5
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°
7313.3	0°	7313.3	7313.3	7313.3	7313.3	7313.3	7313.3	7313.3	7313.3	7313.3	7313.3
7392.7	2.5°	7366.3	7353.0	7300.1	7228.6	7154.5	7083.0	7059.2	7008.9	6974.5	6956.0
7564.8	5°	7514.5	7472.1	7347.7	7188.9	7022.2	6842.2	6715.1	6598.7	6514.0	6434.6
7800.4	7.5°	7726.2	7652.1	7437.7	7159.8	6863.4	6564.3	6341.9	6172.5	6058.7	5984.6
8075.6	10°	7972.4	7858.6	7530.4	7114.8	6656.9	6228.1	5966.1	5820.5	5749.0	5709.3
8390.6	12.5°	8255.6	8094.2	7625.7	7011.6	6341.9	5852.2	5672.3	5629.9	5632.6	5635.2
8787.6	15°	8605.0	8380.0	7702.4	6786.6	5931.7	5563.7	5532.0	5600.8	5672.3	5706.7
9237.6	17.5°	8999.4	8681.8	7715.7	6416.0	5529.3	5378.5	5479.0	5627.3	5735.8	5783.4
9740.5	20°	9422.9	8988.8	7620.4	5892.0	5198.5	5227.6	5407.6	5598.1	5717.3	5778.1
10314.9	22.5°	9907.3	9317.0	7392.7	5341.4	4928.5	5063.5	5275.2	5460.5	5584.9	5645.8
10989.8	25°	10460.5	9684.9	7035.4	4878.2	4695.6	4878.2	5089.9	5243.5	5344.0	5399.6
11744.2	27.5°	11074.5	10068.7	6559.0	4510.3	4491.8	4687.6	4862.3	4981.4	5034.4	5076.7
12546.2	30°	11691.3	10418.1	5981.9	4232.4	4314.4	4499.7	4624.1	4677.0	4692.9	4700.9
13440.8	32.5°	12358.3	10719.9	5375.8	4002.1	4145.0	4317.1	4391.2	4415.0	4340.9	4290.6
14526.1	35°	13165.6	11042.8	4782.9	3819.4	3978.3	4126.5	4150.3	4129.1	4041.8	3938.6
15886.6	37.5°	14163.4	11445.1	4309.1	3689.7	3822.1	3920.0	3890.9	3885.6	3893.6	3771.8
17522.3	40°	15386.3	11969.2	3962.4	3589.2	3695.0	3716.2	3634.2	3679.2	3718.9	3533.6
19316.9	42.5°	16744.2	12601.8	3742.7	3520.3	3589.2	3538.9	3411.8	3462.1	3456.8	3213.3
21119.4	45°	18128.5	13290.0	3665.9	3470.1	3491.2	3390.7	3250.4	3263.6	3152.4	2932.7
22847.9	47.5°	19504.8	14028.5	3713.6	3427.7	3369.5	3255.7	3147.1	3088.9	2924.8	2760.7
24504.8	50°	20854.8	14804.0	3888.3	3343.0	3202.7	3136.6	3057.1	2953.9	2779.2	2638.9
26071.8	52.5°	22106.7	15584.8	4084.1	3202.7	2993.6	3033.3	2983.0	2863.9	2691.9	2548.9
27554.0	55°	23292.5	16365.6	4160.9	3009.5	2797.8	2943.3	2914.2	2694.5	2488.1	2371.6
29105.1	57.5°	24584.2	17305.3	4076.2	2763.3	2638.9	2840.1	2728.9	2485.4	2366.3	2279.0
31124.6	60°	26373.5	18779.6	3893.6	2459.0	2488.1	2686.6	2496.0	2395.4	2265.7	2167.8
34152.7	62.5°	29345.9	21529.7	3599.8	2157.2	2310.7	2459.0	2384.8	2284.3	2151.9	2056.6
39330.0	65°	33739.8	25351.8	3046.6	1921.6	2112.2	2236.6	2265.7	2165.1	2027.5	1926.9
43866.7	67.5°	37445.4	27749.9	2305.4	1725.8	1908.4	2056.6	2138.7	2040.7	1895.2	1797.2
44928.1	70°	37241.6	26008.2	1760.2	1532.5	1728.4	1879.3	1985.2	1908.4	1752.2	1659.6
40809.6	72.5°	33078.0	21757.3	1424.0	1336.7	1545.8	1694.0	1821.1	1762.8	1604.0	1514.0
29896.5	75°	24301.0	15444.5	1138.2	1138.2	1318.1	1500.8	1641.1	1604.0	1458.4	1394.9
12551.5	77.5°	10243.4	6479.6	892.0	944.9	1095.8	1289.0	1463.7	1477.0	1349.9	1429.3
3319.2	80°	2723.6	1786.6	680.2	743.8	860.2	1064.0	1273.1	1267.9	1130.2	1056.1
1233.4	82.5°	1037.6	704.1	484.4	524.1	622.0	815.2	1008.5	1040.2	902.6	780.8
484.4	85°	399.7	301.7	299.1	315.0	362.6	540.0	762.3	788.8	680.2	577.0
135.0	87.5°	103.2	90.0	111.2	105.9	166.8	288.5	436.7	452.6	415.6	240.9
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>
7313.3
6977.2
6466.3
6000.5
5719.9
5640.5
5704.0
5794.0
5794.0
5661.7
5415.5
5092.6
4719.4
4306.5
3943.8
3779.7
3538.9
3210.7
2940.7
2760.7
2628.4
2551.6
2361.0
2271.0
2162.5
2056.6
1932.2
1799.9
1667.5
1514.0
1376.4
1297.0
982.0
780.8
595.5
344.1
0.0

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