

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: P943455

Luminaire Tested: **GALN-SB7D-940-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943455
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-940-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51961 lumens
Efficiency: N/A
Efficacy: 101.3 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

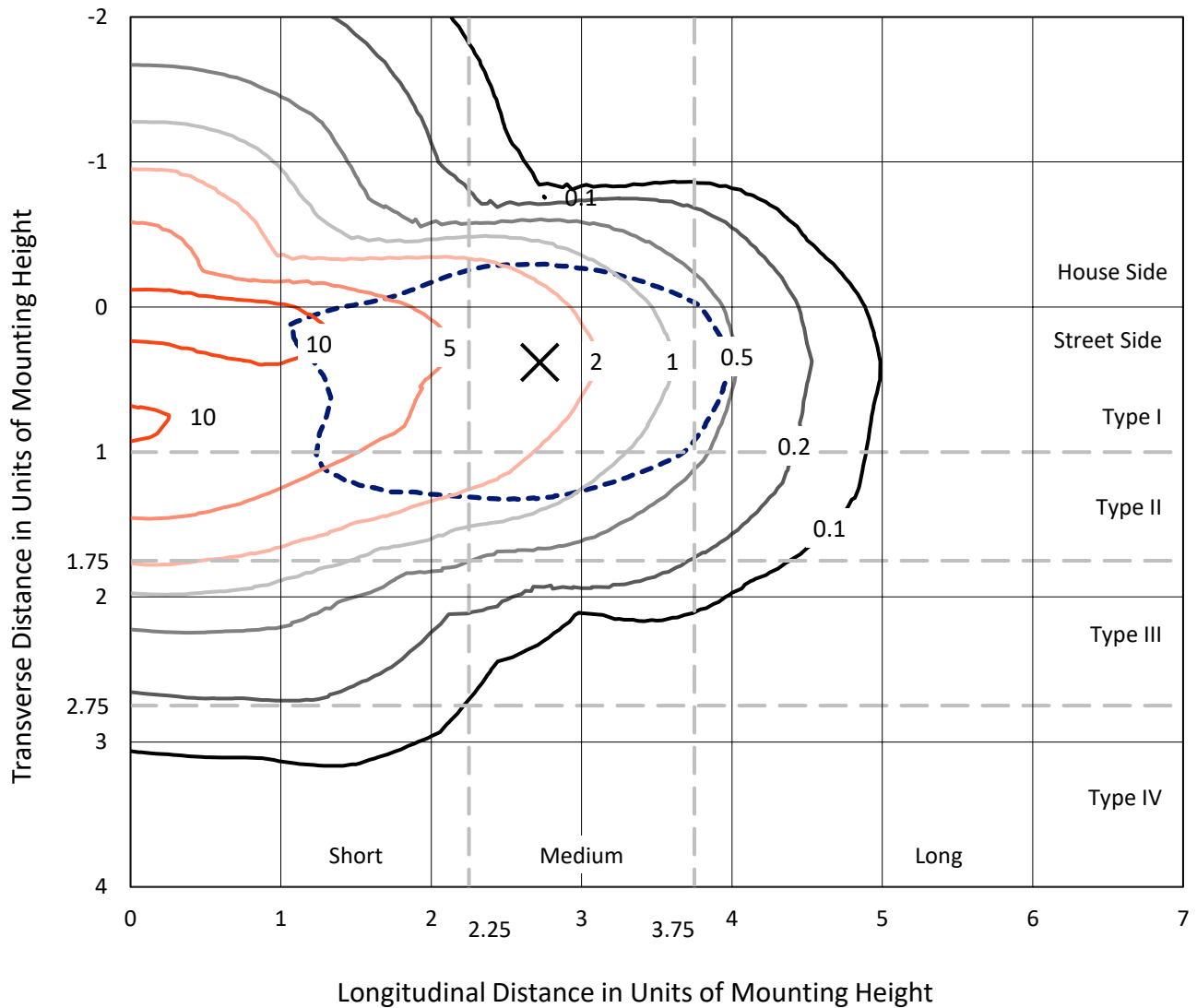
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

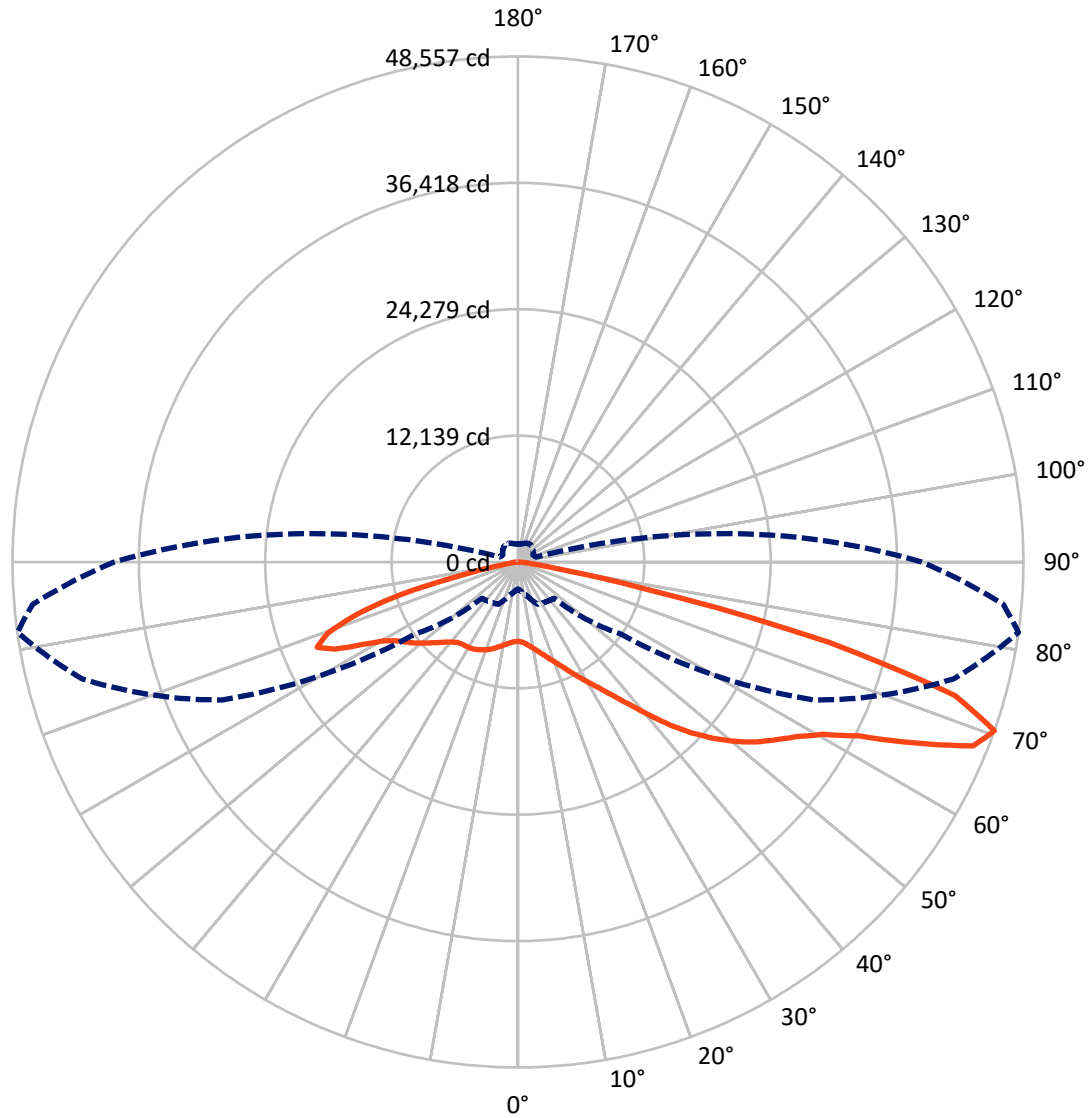
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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	12809.7	0.0	12809.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	39151.3	0.0	39151.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	51961.0	0.0	51961.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.3	1.4
10°-20°	2066.5	4.0
20°-30°	3457.1	6.7
30°-40°	5400.9	10.4
40°-50°	8601.6	16.6
50°-60°	11970.2	23.0
60°-70°	12521.4	24.1
70°-80°	6544.4	12.6
80°-90°	679.6	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°	51961.0	100.0
0°-180°	51961.0	100.0

Coefficient of Utilization



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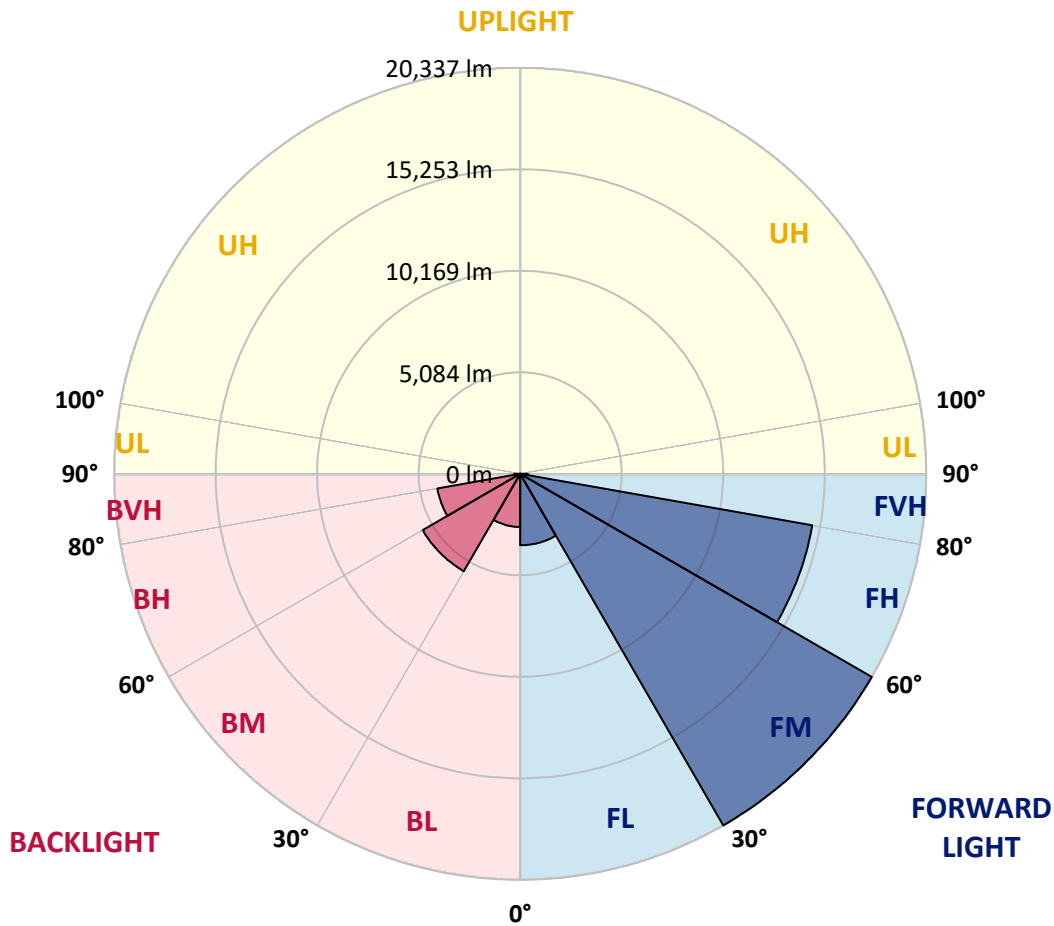
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3578.1	6.9			
FM (30°-60°)	20337.0	39.1			
FH (60°-80°)	14855.8	28.6			G5
FVH (80°-90°)	380.4	0.7			G3/500
BL (0°-30°)	2664.9	5.1	B4/5000		
BM (30°-60°)	5635.7	10.8	B4/8500		
BH (60°-80°)	4209.9	8.1	B4/5000		G4/5000
BVH (80°-90°)	299.1	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°	7618.1	7618.1	7618.1	7618.1	7618.1	7618.1	7618.1	7618.1	7618.1	7618.1
2.5°	7800.1	7844.2	7830.4	7816.7	7816.7	7797.4	7794.6	7767.0	7745.0	7709.1
5°	7899.4	7946.2	7940.7	7951.8	7987.6	7995.9	8004.1	7987.6	7943.5	7899.4
7.5°	7811.1	7863.5	7880.1	7946.2	8056.5	8155.8	8230.2	8260.6	8219.2	8155.8
10°	7513.4	7571.3	7629.2	7786.3	7982.1	8216.4	8415.0	8533.5	8525.2	8464.6
12.5°	6909.5	6970.2	7094.3	7400.3	7758.7	8172.3	8541.8	8789.9	8875.4	8831.3
15°	6427.0	6479.4	6573.2	6887.5	7353.4	7982.1	8588.7	9071.2	9289.0	9264.2
17.5°	6413.2	6435.3	6493.2	6642.1	7000.5	7684.3	8539.0	9346.9	9763.2	9760.5
20°	6655.9	6664.1	6697.2	6727.6	6931.6	7458.2	8412.2	9575.7	10295.4	10295.4
22.5°	6992.2	6986.7	7019.8	6992.2	7091.5	7438.9	8332.2	9777.0	10888.2	10932.3
25°	7496.8	7469.2	7461.0	7397.6	7416.9	7618.1	8420.5	10005.9	11591.3	11682.2
27.5°	8169.6	8125.5	8095.1	7949.0	7899.4	7987.6	8690.7	10281.6	12374.3	12531.5
30°	9046.4	8966.4	8922.3	8668.6	8489.4	8503.2	9098.7	10648.3	13193.2	13446.8
32.5°	10243.0	10118.9	10000.3	9584.0	9255.9	9148.4	9625.4	11155.6	14081.0	14486.3
35°	11583.0	11483.7	11356.9	10714.5	10209.9	9961.7	10336.7	11864.2	15120.5	15762.9
37.5°	12873.3	12787.9	12848.5	11982.8	11332.1	10970.9	11268.7	12815.4	16402.6	17351.0
40°	14207.8	14141.7	14149.9	13322.8	12564.5	12159.2	12399.1	14009.3	17872.1	19239.7
42.5°	15658.1	15608.5	15443.1	14709.6	13857.7	13479.9	13700.5	15387.9	19449.3	21390.3
45°	17282.1	17251.8	17097.4	16256.4	15280.4	14855.8	15153.5	16909.9	21034.6	23414.1
47.5°	18685.5	18710.3	18691.0	17982.4	16970.5	16347.4	16703.1	18498.0	22509.7	25316.6
50°	19361.0	19490.6	19680.9	19460.3	18831.6	18197.5	18266.4	20031.0	23915.9	27100.5
52.5°	19008.1	19253.5	19771.9	20124.8	20367.4	20235.1	20050.3	21553.0	25239.4	28710.7
55°	17692.9	18037.6	18897.8	19749.8	20987.8	21950.0	22192.7	23240.4	26529.7	30127.9
57.5°	15296.9	15856.6	16628.6	18351.9	20436.3	22780.0	24690.7	25581.3	27897.3	31641.6
60°	11188.7	11938.7	12898.2	15462.4	18506.3	22336.0	26816.5	29176.6	29841.1	33601.9
62.5°	7160.4	7623.6	8505.9	10921.3	14420.1	20061.4	27467.2	33670.9	33136.0	36816.8
65°	4902.3	5200.1	6007.9	7364.5	9322.1	14933.0	25724.6	37040.2	38369.1	41912.1
67.5°	3562.3	3788.4	4477.7	5666.0	6074.1	8836.8	19962.1	36885.8	43456.2	47161.8
70°	2597.3	2757.2	3336.2	4477.7	4673.4	4916.1	12093.1	31354.8	43345.9	48557.0
72.5°	1924.5	2034.8	2423.6	3474.1	3782.9	3319.7	5985.9	22788.2	37247.0	43919.4
75°	1392.4	1475.1	1761.8	2657.9	3027.4	2528.3	2986.0	13317.3	25981.1	30894.4
77.5°	1064.3	1127.7	1315.2	1946.6	2423.6	1897.0	1852.8	6126.5	12319.2	12379.8
80°	854.7	896.1	998.1	1370.3	1858.4	1420.0	1207.7	2473.2	3893.2	3294.8
82.5°	628.6	697.6	843.7	962.3	1329.0	978.8	736.2	1249.0	1480.6	1273.8
85°	358.4	405.3	510.1	689.3	849.2	598.3	421.9	554.2	689.3	565.2
87.5°	126.8	165.4	179.2	270.2	369.5	248.1	162.7	159.9	226.1	168.2
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°
7618.1	0°	7618.1	7618.1	7618.1	7618.1	7618.1	7618.1	7618.1	7618.1	7618.1	7618.1
7700.8	2.5°	7673.3	7659.5	7604.3	7529.9	7452.7	7378.3	7353.4	7301.1	7265.2	7245.9
7880.1	5°	7827.7	7783.6	7654.0	7488.5	7314.8	7127.4	6995.0	6873.7	6785.5	6702.7
8125.5	7.5°	8048.3	7971.1	7747.7	7458.2	7149.4	6837.8	6606.2	6429.8	6311.2	6234.0
8412.2	10°	8304.7	8186.1	7844.2	7411.3	6934.3	6487.7	6214.7	6063.1	5988.6	5947.3
8740.3	12.5°	8599.7	8431.5	7943.5	7303.8	6606.2	6096.2	5908.7	5864.6	5867.3	5870.1
9153.9	15°	8963.6	8729.3	8023.4	7069.5	6178.9	5795.6	5762.5	5834.2	5908.7	5944.5
9622.6	17.5°	9374.5	9043.6	8037.2	6683.4	5759.8	5602.6	5707.4	5861.8	5974.8	6024.5
10146.5	20°	9815.6	9363.4	7938.0	6137.5	5415.1	5445.5	5633.0	5831.5	5955.5	6019.0
10744.8	22.5°	10320.2	9705.3	7700.8	5564.0	5133.9	5274.5	5495.1	5688.1	5817.7	5881.1
11447.9	25°	10896.4	10088.6	7328.6	5081.5	4891.3	5081.5	5302.1	5462.0	5566.8	5624.7
12233.7	27.5°	11536.1	10488.4	6832.3	4698.3	4679.0	4883.0	5065.0	5189.0	5244.2	5288.3
13069.1	30°	12178.5	10852.3	6231.3	4408.8	4494.2	4687.2	4816.8	4872.0	4888.5	4896.8
14001.0	32.5°	12873.3	11166.6	5599.9	4168.9	4317.8	4497.0	4574.2	4599.0	4521.8	4469.4
15131.5	35°	13714.3	11503.0	4982.3	3978.6	4144.1	4298.5	4323.3	4301.2	4210.2	4102.7
16548.7	37.5°	14753.8	11922.1	4488.7	3843.5	3981.4	4083.4	4053.1	4047.6	4055.8	3929.0
18252.6	40°	16027.6	12468.0	4127.5	3738.8	3849.0	3871.1	3785.6	3832.5	3873.9	3680.9
20122.0	42.5°	17442.0	13127.0	3898.7	3667.1	3738.8	3686.4	3554.0	3606.4	3600.9	3347.2
21999.7	45°	18884.0	13843.9	3818.7	3614.7	3636.7	3532.0	3385.8	3399.6	3283.8	3055.0
23800.1	47.5°	20317.8	14613.1	3868.3	3570.6	3509.9	3391.4	3278.3	3217.6	3046.7	2875.8
25526.1	50°	21723.9	15421.0	4050.3	3482.3	3336.2	3267.3	3184.6	3077.0	2895.1	2748.9
27158.4	52.5°	23028.1	16234.4	4254.4	3336.2	3118.4	3159.7	3107.4	2983.3	2804.1	2655.2
28702.4	55°	24263.3	17047.7	4334.3	3134.9	2914.4	3066.0	3035.7	2806.8	2591.8	2470.4
30318.1	57.5°	25608.8	18026.5	4246.1	2878.5	2748.9	2958.5	2842.7	2589.0	2464.9	2373.9
32421.9	60°	27472.7	19562.3	4055.8	2561.4	2591.8	2798.6	2600.0	2495.3	2360.2	2258.1
35576.1	62.5°	30569.0	22427.0	3749.8	2247.1	2407.0	2561.4	2484.2	2379.5	2241.6	2142.3
40969.2	65°	35146.0	26408.4	3173.5	2001.7	2200.2	2329.8	2360.2	2255.4	2112.0	2007.2
45695.0	67.5°	39006.1	28906.4	2401.5	1797.7	1987.9	2142.3	2227.8	2125.8	1974.2	1872.1
46800.6	70°	38793.7	27092.2	1833.5	1596.4	1800.4	1957.6	2067.9	1987.9	1825.3	1728.8
42510.4	72.5°	34456.7	22664.2	1483.4	1392.4	1610.2	1764.6	1897.0	1836.3	1670.9	1577.1
31142.5	75°	25313.8	16088.2	1185.6	1185.6	1373.1	1563.3	1709.5	1670.9	1519.2	1453.0
13074.6	77.5°	10670.3	6749.6	929.2	984.3	1141.5	1342.8	1524.7	1538.5	1406.2	1488.9
3457.5	80°	2837.2	1861.1	708.6	774.8	896.1	1108.4	1326.2	1320.7	1177.3	1100.1
1284.9	82.5°	1080.8	733.4	504.6	545.9	647.9	849.2	1050.5	1083.6	940.2	813.4
504.6	85°	416.3	314.3	311.6	328.1	377.7	562.5	794.1	821.6	708.6	601.1
140.6	87.5°	107.5	93.7	115.8	110.3	173.7	300.5	454.9	471.5	432.9	250.9
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>
7618.1
7268.0
6735.8
6250.6
5958.3
5875.6
5941.8
6035.5
6035.5
5897.6
5641.2
5304.8
4916.1
4486.0
4108.2
3937.3
3686.4
3344.5
3063.2
2875.8
2737.9
2657.9
2459.4
2365.7
2252.6
2142.3
2012.8
1874.9
1737.0
1577.1
1433.7
1351.0
1022.9
813.4
620.4
358.4
0.0

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