

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: P941985

Luminaire Tested: **GALN-SB5D-740-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941985  
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-SB5D-740-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53886 lumens  
Efficiency: N/A  
Efficacy: 147.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

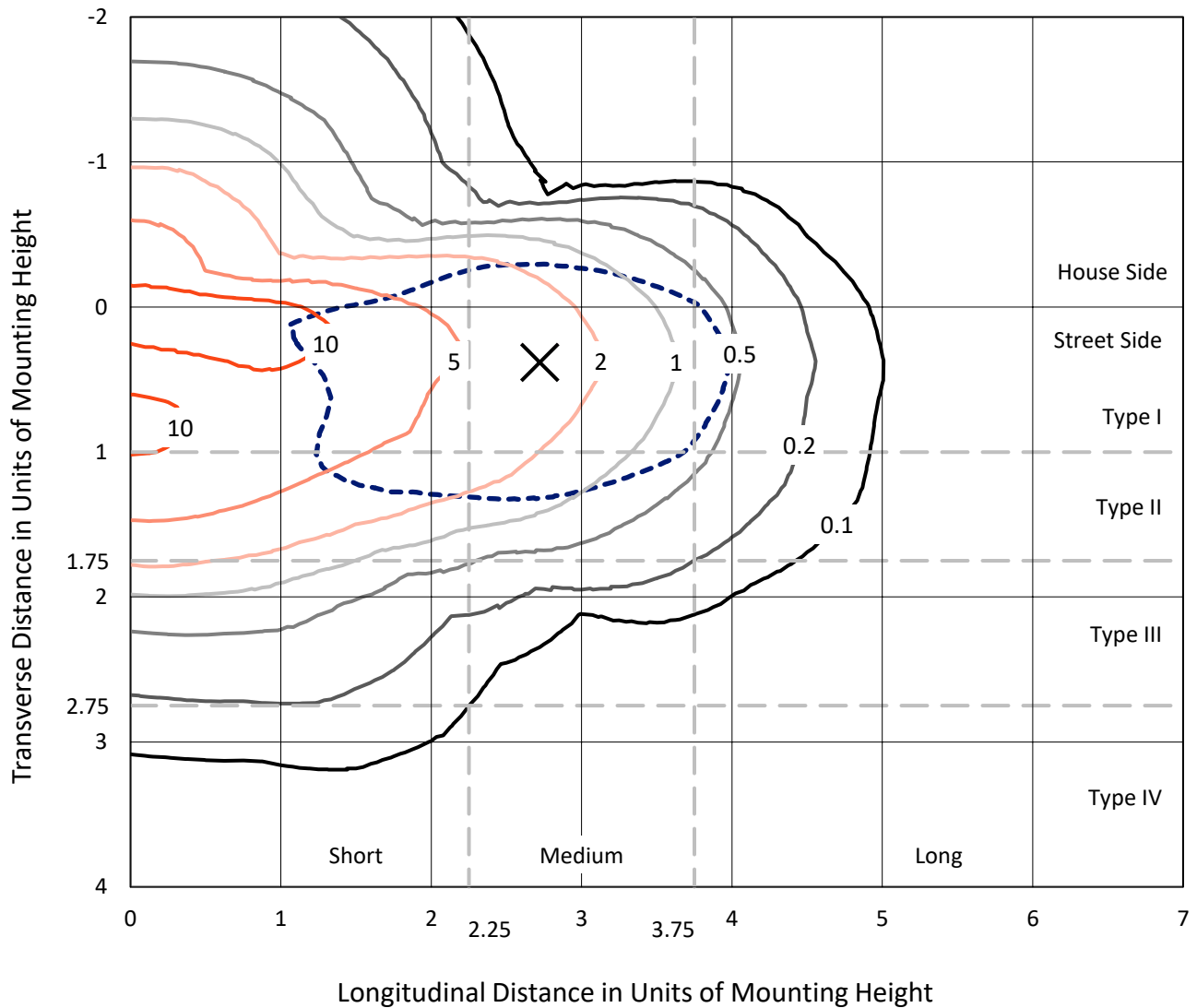
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

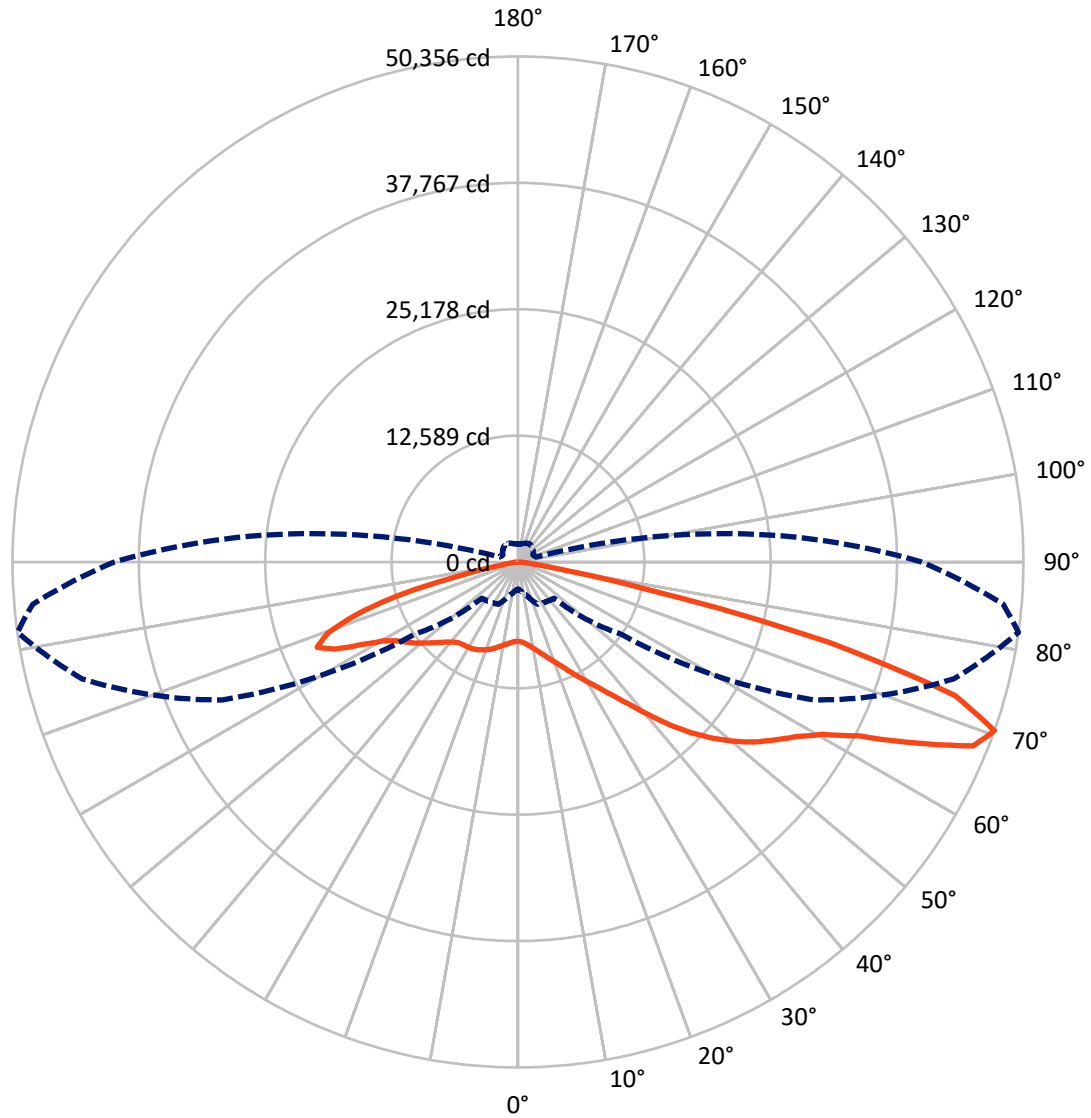
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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
<b>House Side</b>	Lumens	13284.2	0.0	13284.2
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	40601.8	0.0	40601.8
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	53886.0	0.0	53886.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	745.9	1.4
10°-20°	2143.1	4.0
20°-30°	3585.2	6.7
30°-40°	5601.0	10.4
40°-50°	8920.3	16.6
50°-60°	12413.7	23.0
60°-70°	12985.3	24.1
70°-80°	6786.8	12.6
80°-90°	704.7	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°	53886.0	100.0
0°-180°	53886.0	100.0

**Coefficient of Utilization**



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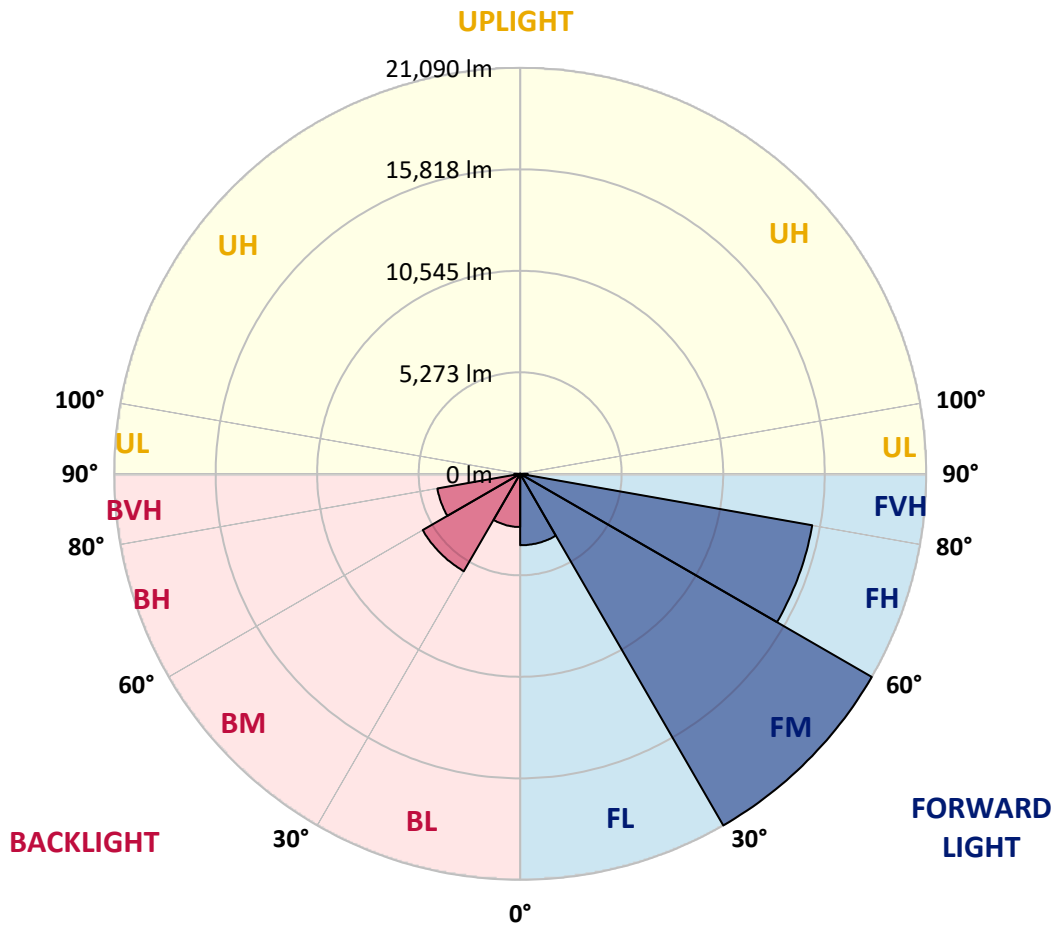
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3710.7	6.9			
FM (30°-60°)	21090.4	39.1			
FH (60°-80°)	15406.2	28.6			G5
FVH (80°-90°)	394.5	0.7			G3/500
BL (0°-30°)	2763.6	5.1	B4/5000		
BM (30°-60°)	5844.5	10.8	B4/8500		
BH (60°-80°)	4365.9	8.1	B4/5000		G4/5000
BVH (80°-90°)	310.2	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°	7900.4	7900.4	7900.4	7900.4	7900.4	7900.4	7900.4	7900.4	7900.4	7900.4
2.5°	8089.1	8134.8	8120.5	8106.2	8106.2	8086.2	8083.4	8054.8	8031.9	7994.7
5°	8192.0	8240.6	8234.9	8246.3	8283.5	8292.1	8300.7	8283.5	8237.8	8192.0
7.5°	8100.5	8154.8	8172.0	8240.6	8355.0	8457.9	8535.1	8566.6	8523.7	8457.9
10°	7791.7	7851.8	7911.8	8074.8	8277.8	8520.8	8726.7	8849.7	8841.1	8778.2
12.5°	7165.5	7228.4	7357.1	7674.5	8046.2	8475.1	8858.2	9115.6	9204.2	9158.5
15°	6665.1	6719.5	6816.7	7142.6	7625.9	8277.8	8906.8	9407.2	9633.1	9607.4
17.5°	6650.8	6673.7	6733.7	6888.2	7259.9	7969.0	8855.4	9693.2	10124.9	10122.1
20°	6902.5	6911.0	6945.3	6976.8	7188.4	7734.5	8723.9	9930.5	10676.8	10676.8
22.5°	7251.3	7245.6	7279.9	7251.3	7354.2	7714.5	8640.9	10139.2	11291.5	11337.3
25°	7774.6	7746.0	7737.4	7671.6	7691.6	7900.4	8732.4	10376.6	12020.7	12115.0
27.5°	8472.2	8426.5	8395.0	8243.5	8192.0	8283.5	9012.6	10662.5	12832.7	12995.7
30°	9381.5	9298.6	9252.8	8989.8	8803.9	8818.2	9435.8	11042.8	13682.0	13945.0
32.5°	10622.5	10493.8	10370.8	9939.1	9598.8	9487.3	9982.0	11568.9	14602.7	15023.0
35°	12012.1	11909.2	11777.6	11111.4	10588.1	10330.8	10719.7	12303.7	15680.6	16346.9
37.5°	13350.3	13261.6	13324.5	12426.7	11751.9	11377.3	11686.1	13290.2	17010.2	17993.8
40°	14734.2	14665.6	14674.1	13816.3	13030.0	12609.7	12858.5	14528.3	18534.3	19952.5
42.5°	16238.2	16186.7	16015.2	15254.6	14371.1	13979.3	14208.1	15958.0	20169.8	22182.8
45°	17922.4	17890.9	17730.8	16858.7	15846.5	15406.1	15714.9	17536.3	21813.9	24281.5
47.5°	19377.8	19403.5	19383.5	18648.6	17599.2	16953.0	17321.9	19183.3	23343.7	26254.5
50°	20078.3	20212.7	20410.0	20181.2	19529.3	18871.7	18943.1	20773.1	24801.9	28104.5
52.5°	19712.3	19966.8	20504.3	20870.3	21122.0	20984.7	20793.1	22351.5	26174.4	29774.3
55°	18348.4	18705.8	19597.9	20481.5	21765.3	22763.2	23014.8	24101.4	27512.6	31244.0
57.5°	15863.6	16444.1	17244.7	19031.8	21193.4	23623.9	25605.4	26529.0	28930.8	32813.8
60°	11603.2	12381.0	13376.0	16035.2	19191.9	23163.5	27810.0	30257.6	30946.7	34846.8
62.5°	7425.7	7906.1	8821.1	11325.9	14954.4	20804.6	28484.8	34918.3	34363.6	38180.8
65°	5083.9	5392.7	6230.5	7637.3	9667.4	15486.2	26677.7	38412.4	39790.6	43464.9
67.5°	3694.3	3928.7	4643.6	5875.9	6299.1	9164.2	20701.6	38252.3	45066.1	48909.0
70°	2693.5	2859.3	3459.8	4643.6	4846.6	5098.2	12541.1	32516.4	44951.7	50355.9
72.5°	1995.8	2110.2	2513.4	3602.8	3923.0	3442.6	6207.6	23632.5	38626.8	45546.5
75°	1444.0	1529.7	1827.1	2756.4	3139.6	2622.0	3096.7	13810.6	26943.6	32038.9
77.5°	1103.7	1169.5	1363.9	2018.7	2513.4	1967.2	1921.5	6353.5	12775.5	12838.4
80°	886.4	929.3	1035.1	1421.1	1927.2	1472.6	1252.4	2564.8	4037.4	3416.9
82.5°	651.9	723.4	875.0	997.9	1378.2	1015.1	763.4	1295.3	1535.5	1321.0
85°	371.7	420.3	529.0	714.8	880.7	620.5	437.5	574.7	714.8	586.2
87.5°	131.5	171.6	185.9	280.2	383.2	257.3	168.7	165.8	234.5	174.4
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°
7900.4	0°	7900.4	7900.4	7900.4	7900.4	7900.4	7900.4	7900.4	7900.4	7900.4	7900.4
7986.1	2.5°	7957.5	7943.3	7886.1	7808.9	7728.8	7651.6	7625.9	7571.5	7534.4	7514.4
8172.0	5°	8117.7	8071.9	7937.5	7766.0	7585.8	7391.4	7254.2	7128.3	7036.8	6951.1
8426.5	7.5°	8346.4	8266.4	8034.8	7734.5	7414.3	7091.2	6851.0	6668.0	6545.0	6465.0
8723.9	10°	8612.3	8489.4	8134.8	7685.9	7191.2	6728.0	6445.0	6287.7	6210.5	6167.6
9064.1	12.5°	8918.3	8743.9	8237.8	7574.4	6851.0	6322.0	6127.6	6081.8	6084.7	6087.5
9493.0	15°	9295.7	9052.7	8320.7	7331.4	6407.8	6010.3	5976.0	6050.4	6127.6	6164.7
9979.1	17.5°	9721.8	9378.6	8335.0	6931.0	5973.2	5810.2	5918.8	6079.0	6196.2	6247.7
10522.4	20°	10179.3	9710.3	8232.0	6364.9	5615.7	5647.2	5841.6	6047.5	6176.2	6241.9
11142.9	22.5°	10702.5	10064.9	7986.1	5770.2	5324.1	5469.9	5698.7	5898.8	6033.2	6099.0
11872.0	25°	11300.1	10462.3	7600.1	5269.8	5072.5	5269.8	5498.5	5664.4	5773.0	5833.1
12686.9	27.5°	11963.5	10876.9	7085.4	4872.3	4852.3	5063.9	5252.6	5381.3	5438.5	5484.2
13553.3	30°	12629.7	11254.4	6462.1	4572.1	4660.7	4860.9	4995.3	5052.5	5069.6	5078.2
14519.7	32.5°	13350.3	11580.3	5807.3	4323.3	4477.7	4663.6	4743.6	4769.4	4689.3	4635.0
15692.1	35°	14222.4	11929.2	5166.8	4126.0	4297.6	4457.7	4483.4	4460.6	4366.2	4254.7
17161.8	37.5°	15300.3	12363.8	4655.0	3985.9	4128.9	4234.7	4203.2	4197.5	4206.1	4074.6
18928.8	40°	16621.4	12929.9	4280.4	3877.3	3991.6	4014.5	3925.9	3974.5	4017.4	3817.2
20867.5	42.5°	18088.2	13613.3	4043.1	3802.9	3877.3	3822.9	3685.7	3740.0	3734.3	3471.2
22814.7	45°	19583.6	14356.8	3960.2	3748.6	3771.5	3662.8	3511.3	3525.6	3405.5	3168.2
24681.8	47.5°	21070.5	15154.5	4011.7	3702.8	3639.9	3517.0	3399.8	3336.9	3159.6	2982.3
26471.8	50°	22528.8	15992.3	4200.4	3611.3	3459.8	3388.3	3302.5	3191.0	3002.3	2850.8
28164.5	52.5°	23881.2	16835.8	4412.0	3459.8	3233.9	3276.8	3222.5	3093.8	2908.0	2753.5
29765.7	55°	25162.2	17679.3	4494.9	3251.1	3022.3	3179.6	3148.1	2910.8	2687.8	2562.0
31441.3	57.5°	26557.6	18694.4	4403.4	2985.2	2850.8	3068.1	2948.0	2684.9	2556.3	2461.9
33623.0	60°	28490.5	20287.0	4206.1	2656.3	2687.8	2902.2	2696.4	2587.7	2447.6	2341.8
36894.1	62.5°	31701.5	23257.9	3888.7	2330.4	2496.2	2656.3	2576.3	2467.6	2324.6	2221.7
42487.0	65°	36448.0	27386.8	3291.1	2075.9	2281.8	2416.1	2447.6	2338.9	2190.3	2081.6
47387.9	67.5°	40451.1	29977.3	2490.5	1864.3	2061.6	2221.7	2310.3	2204.6	2047.3	1941.5
48534.5	70°	40230.9	28095.9	1901.5	1655.6	1867.2	2030.1	2144.5	2061.6	1892.9	1792.8
44085.3	72.5°	35733.2	23503.8	1538.3	1444.0	1669.9	1830.0	1967.2	1904.3	1732.8	1635.5
32296.3	75°	26251.6	16684.3	1229.5	1229.5	1424.0	1621.2	1772.8	1732.8	1575.5	1506.9
13559.0	77.5°	11065.7	6999.7	963.6	1020.8	1183.8	1392.5	1581.2	1595.5	1458.3	1544.0
3585.6	80°	2942.3	1930.1	734.9	803.5	929.3	1149.5	1375.3	1369.6	1220.9	1140.9
1332.5	82.5°	1120.9	760.6	523.3	566.1	671.9	880.7	1089.4	1123.7	975.0	843.5
523.3	85°	431.8	326.0	323.1	340.3	391.7	583.3	823.5	852.1	734.9	623.3
145.8	87.5°	111.5	97.2	120.1	114.4	180.1	311.7	471.8	488.9	448.9	260.2
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>
7900.4
7537.2
6985.4
6482.1
6179.0
6093.3
6161.9
6259.1
6259.1
6116.1
5850.2
5501.4
5098.2
4652.1
4260.4
4083.1
3822.9
3468.4
3176.7
2982.3
2839.3
2756.4
2550.5
2453.3
2336.1
2221.7
2087.3
1944.4
1801.4
1635.5
1486.9
1401.1
1060.8
843.5
643.4
371.7
0.0

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