

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: P943459

Luminaire Tested: **GALN-SB7D-940-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943459  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
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-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

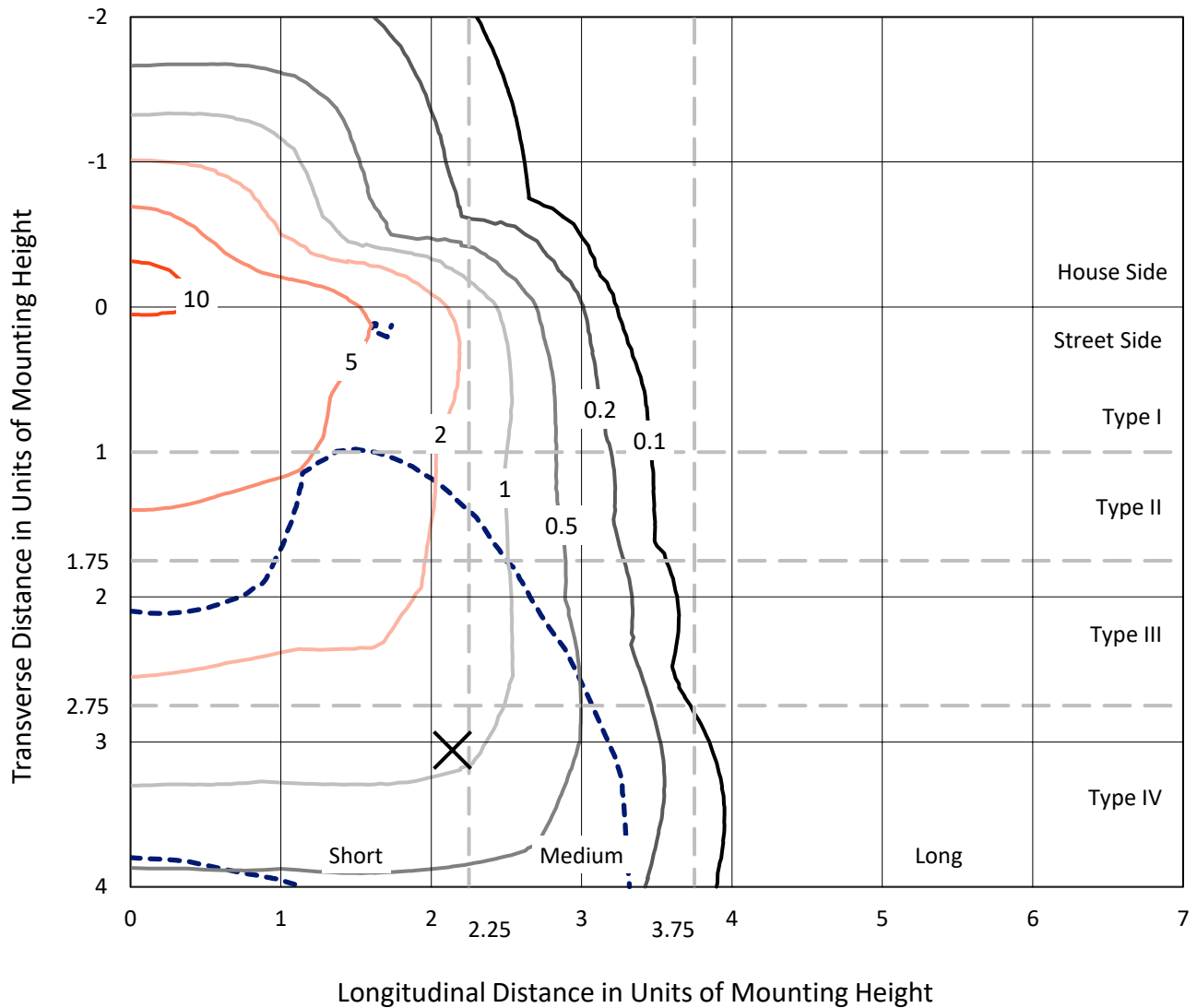
Lumens per Lamp: N/A  
Luminaire Lumens: 51831 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

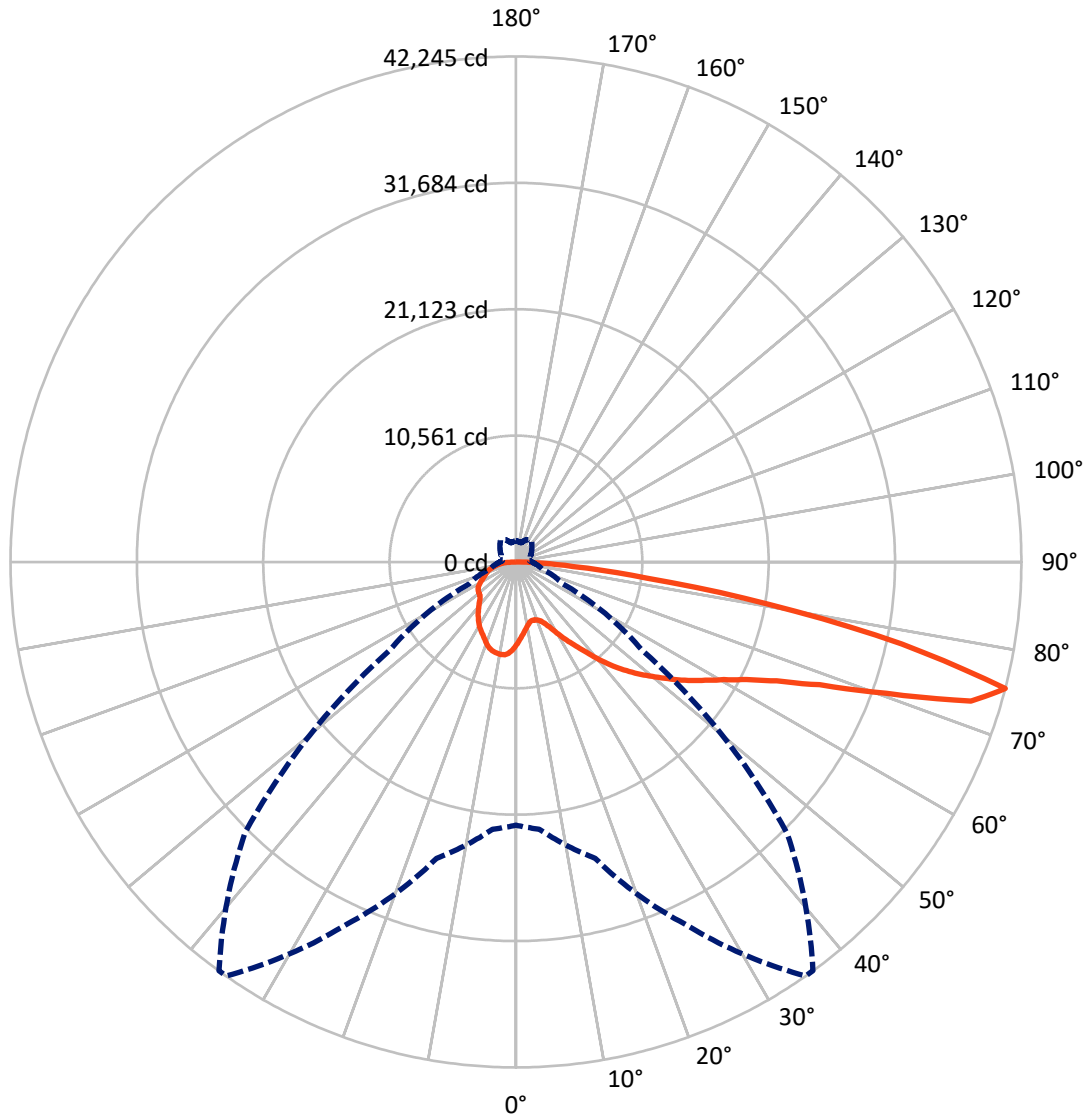
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12334.5	0.0	12334.5
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	39496.5	0.0	39496.5
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	51831.0	0.0	51831.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	653.9	1.3
10°-20°	1886.2	3.6
20°-30°	3167.5	6.1
30°-40°	4922.7	9.5
40°-50°	7306.6	14.1
50°-60°	10087.2	19.5
60°-70°	12238.1	23.6
70°-80°	10113.9	19.5
80°-90°	1454.7	2.8
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°	51831.0	100.0
0°-180°	51831.0	100.0

**Coefficient of Utilization**



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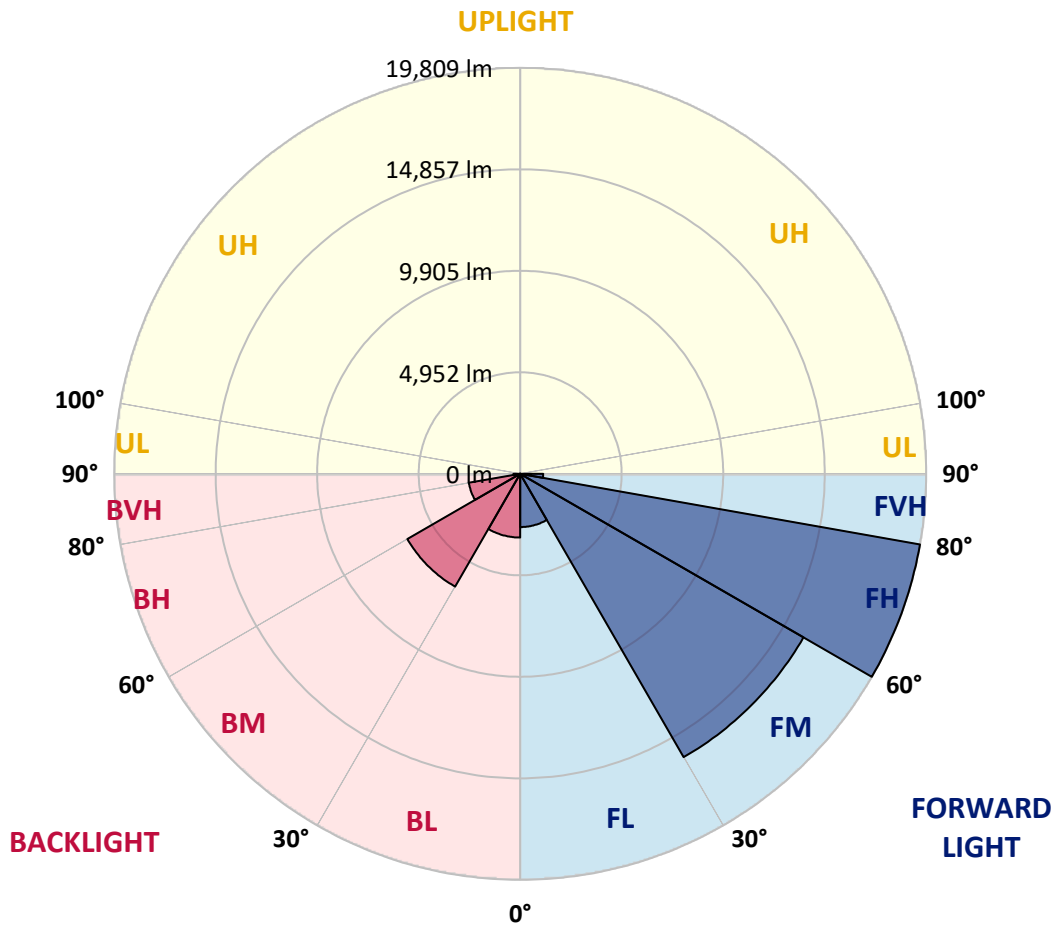
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2599.2	5.0			
FM (30°-60°)	15961.1	30.8			
FH (60°-80°)	19809.0	38.2			G5
FVH (80°-90°)	1127.1	2.2			G5
BL (0°-30°)	3108.5	6.0	B4/5000		
BM (30°-60°)	6355.5	12.3	B4/8500		
BH (60°-80°)	2543.0	4.9	B4/5000		G4/5000
BVH (80°-90°)	327.6	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	6906.8	6906.8	6906.8	6906.8	6906.8	6906.8	6906.8	6906.8	6906.8	6906.8
2.5°	6368.9	6408.1	6424.9	6416.5	6458.5	6452.9	6511.8	6584.6	6685.5	6783.5
5°	5878.5	5920.5	5957.0	5990.6	6071.8	6097.1	6189.5	6329.6	6514.6	6702.3
7.5°	5421.8	5458.2	5514.3	5575.9	5713.2	5738.4	5892.5	6111.1	6368.9	6643.4
10°	5049.1	5085.6	5144.4	5214.4	5385.4	5416.2	5612.3	5903.7	6240.0	6587.4
12.5°	4889.4	4900.6	4934.3	5004.3	5152.8	5172.4	5388.2	5721.6	6113.9	6545.4
15°	4881.0	4903.4	4906.2	4942.7	5065.9	5074.3	5273.3	5603.9	6035.4	6537.0
17.5°	4965.1	4981.9	4956.7	4979.1	5082.8	5096.8	5253.7	5547.9	6010.2	6573.4
20°	5189.2	5203.2	5127.6	5096.8	5172.4	5183.6	5337.7	5584.3	6035.4	6649.1
22.5°	5665.6	5674.0	5489.0	5363.0	5368.6	5374.2	5508.7	5732.8	6133.5	6786.3
25°	6408.1	6402.5	6108.3	5864.5	5724.4	5693.6	5783.2	5973.8	6298.8	6968.5
27.5°	7276.7	7234.7	6940.5	6576.2	6270.8	6226.0	6206.3	6287.6	6534.2	7209.4
30°	8257.4	8218.1	7901.5	7425.2	7002.1	6929.2	6744.3	6702.3	6884.4	7537.3
32.5°	9333.3	9308.1	8929.8	8352.6	7786.6	7702.6	7391.6	7279.5	7422.4	8033.2
35°	10235.6	10213.1	9899.3	9305.3	8613.2	8509.6	8192.9	8066.8	8139.7	8669.3
37.5°	11050.9	11039.7	10770.7	10302.8	9588.3	9462.2	9106.4	9064.3	9050.3	9507.1
40°	11807.5	11779.4	11499.2	11252.7	10723.1	10608.2	10294.4	10258.0	10151.5	10538.2
42.5°	12645.2	12572.4	12166.1	12051.2	11908.3	11813.1	11625.3	11630.9	11395.6	11701.0
45°	13328.9	13286.9	12869.4	12802.2	12956.3	12917.0	13079.5	13121.6	12664.9	12919.8
47.5°	14063.0	14023.8	13670.8	13623.1	14040.6	14051.8	14626.2	14640.2	13903.3	14186.3
50°	14968.1	14912.0	14561.8	14620.6	15088.6	15130.6	16181.3	16086.1	15043.7	15472.4
52.5°	15564.9	15598.5	15522.9	15618.1	16257.0	16296.2	17711.2	17467.4	16172.9	16741.7
55°	16004.8	16072.0	16307.4	16526.0	17489.8	17529.1	19154.2	18781.5	17108.8	17918.5
57.5°	16570.8	16475.5	16915.4	17341.3	18661.1	18764.7	20558.0	20048.0	17938.1	18932.8
60°	17383.4	17316.1	17658.0	18288.4	19972.4	20137.7	22043.0	21188.4	18546.2	19737.0
62.5°	19030.9	18862.8	18916.0	19473.6	21625.5	21844.1	23718.6	22183.1	18848.8	20050.8
65°	21493.8	21205.2	20936.2	21322.9	23954.0	24169.7	25609.9	22964.9	18736.7	19442.8
67.5°	24595.6	24309.8	23979.2	24343.4	27383.6	27554.5	27943.9	23404.8	17854.1	17100.4
70°	27153.8	27047.3	27442.4	28941.4	32861.4	32867.0	30936.4	23040.5	15436.0	12124.1
72.5°	26814.8	26750.3	28832.2	33466.6	39765.4	39616.9	33769.2	20283.4	10398.1	5469.4
75°	21998.2	22415.7	25640.7	33385.4	42245.2	42225.5	32034.8	12894.6	4301.0	2266.8
77.5°	11796.3	12457.5	16646.4	24648.8	32979.1	33475.0	22522.2	4511.2	1846.5	1451.4
80°	3847.1	4424.3	6635.0	12550.0	21429.4	21336.9	9652.8	1770.8	1263.7	1028.3
82.5°	1633.5	1700.8	2964.5	5926.1	10997.7	10826.8	3073.8	1017.1	888.2	703.3
85°	638.8	714.5	1308.5	2740.3	4763.3	4659.7	1109.6	504.4	568.8	459.5
87.5°	210.1	255.0	467.9	938.7	1482.2	1429.0	271.8	173.7	246.6	210.1
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°
6906.8	0°	6906.8	6906.8	6906.8	6906.8	6906.8	6906.8	6906.8	6906.8	6906.8	6906.8
6926.4	2.5°	6965.7	7010.5	7063.7	7142.2	7209.4	7265.5	7324.3	7360.7	7374.8	7416.8
6937.7	5°	7016.1	7114.2	7245.9	7374.8	7500.8	7576.5	7643.7	7677.4	7708.2	7730.6
6968.5	7.5°	7100.2	7226.3	7433.6	7601.7	7708.2	7769.8	7814.7	7803.5	7814.7	7820.3
7002.1	10°	7173.0	7349.5	7596.1	7755.8	7837.1	7839.9	7828.7	7789.4	7769.8	7772.6
7052.5	12.5°	7259.9	7456.0	7722.2	7856.7	7879.1	7817.5	7769.8	7702.6	7677.4	7666.2
7128.2	15°	7377.6	7601.7	7859.5	7909.9	7853.9	7775.4	7694.2	7584.9	7528.9	7484.0
7257.1	17.5°	7520.5	7767.0	7966.0	7929.5	7809.1	7680.2	7548.5	7383.2	7268.3	7220.7
7433.6	20°	7719.4	7940.8	8047.2	7887.5	7705.4	7509.3	7285.1	7083.4	6976.9	6929.2
7657.8	22.5°	7960.4	8173.3	8125.7	7814.7	7556.9	7243.1	6962.9	6814.4	6761.1	6727.5
7946.4	25°	8249.0	8431.1	8181.7	7708.2	7313.1	6890.0	6674.3	6626.6	6601.4	6576.2
8299.4	27.5°	8624.4	8722.5	8223.8	7551.3	6932.0	6514.6	6436.1	6444.5	6436.1	6394.1
8789.7	30°	9120.4	9100.8	8263.0	7296.3	6494.9	6175.5	6181.1	6217.5	6223.2	6195.1
9473.4	32.5°	9773.2	9574.3	8282.6	6965.7	6077.5	5878.5	5884.1	5923.3	5951.4	5903.7
10367.3	35°	10563.4	10126.3	8251.8	6551.0	5755.2	5595.5	5553.5	5564.7	5573.1	5528.3
11451.6	37.5°	11485.2	10745.5	8114.5	6091.5	5489.0	5318.1	5228.5	5152.8	5108.0	5065.9
12678.9	40°	12496.7	11420.8	7862.3	5643.1	5192.0	5023.9	4889.4	4746.5	4595.2	4539.2
13979.0	42.5°	13555.9	12115.7	7556.9	5214.4	4850.2	4712.9	4570.0	4362.7	4135.7	4020.8
15329.5	45°	14654.3	12827.4	7257.1	4791.4	4499.9	4441.1	4275.8	4026.4	3779.8	3634.1
16682.9	47.5°	15730.2	13499.8	6817.2	4365.5	4172.1	4236.6	4107.7	3877.9	3603.3	3373.6
18025.0	50°	16758.5	14130.3	6097.1	3934.0	3905.9	4174.9	4051.6	3721.0	3407.2	3113.0
19341.9	52.5°	17778.4	14640.2	5175.2	3541.7	3763.0	4158.1	3978.8	3614.5	3230.7	2922.4
20580.4	55°	18644.2	14903.6	4287.0	3205.4	3555.7	4015.2	3891.9	3488.4	2981.3	2653.5
21429.4	57.5°	19137.4	14690.7	3547.3	2874.8	3269.9	3779.8	3743.4	3219.5	2684.3	2432.1
21594.7	60°	18924.4	13827.7	2942.1	2586.2	2998.1	3524.9	3485.6	2953.3	2457.3	2219.2
20709.3	62.5°	17750.4	12182.9	2462.9	2334.0	2751.5	3264.3	3227.9	2748.7	2283.6	2053.8
18358.4	65°	15385.6	9910.5	2090.3	2123.9	2502.2	2950.5	3003.7	2577.8	2146.3	1922.1
14203.1	67.5°	11734.6	7178.6	1798.9	1941.8	2258.4	2642.2	2796.4	2454.5	2031.4	1818.5
8218.1	70°	6688.3	4076.9	1552.3	1765.2	2042.6	2356.4	2636.6	2356.4	1908.1	1731.6
3079.4	72.5°	2535.8	1871.7	1342.1	1588.7	1835.3	2115.5	2460.1	2202.3	1765.2	1633.5
1591.5	75°	1353.3	1140.4	1129.2	1381.4	1597.1	1880.1	2238.8	2051.0	1658.8	1726.0
1101.2	77.5°	921.8	807.0	944.3	1182.4	1336.5	1619.5	2003.4	1821.3	1437.4	1431.8
762.1	80°	638.8	571.6	767.7	952.7	1033.9	1361.8	1748.4	1563.5	1171.2	1092.8
470.7	82.5°	383.9	372.7	574.4	711.7	731.3	1050.7	1448.6	1311.3	958.3	835.0
280.2	85°	210.1	221.4	367.1	417.5	425.9	734.1	1134.8	1014.3	736.9	619.2
100.9	87.5°	58.8	75.7	134.5	165.3	204.5	381.1	675.3	602.4	369.9	257.8
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>
6906.8
7414.0
7736.2
7828.7
7778.2
7660.6
7498.0
7223.5
6923.6
6733.1
6576.2
6402.5
6209.1
5926.1
5559.1
5094.0
4564.4
4034.8
3622.9
3348.3
3087.8
2888.8
2625.4
2398.5
2185.5
2017.4
1885.7
1784.8
1709.2
1611.1
1782.0
1319.7
1045.1
840.6
624.8
257.8
0.0

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