

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: P941989

Luminaire Tested: **GALN-SB5D-740-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941989  
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-SB5D-740-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

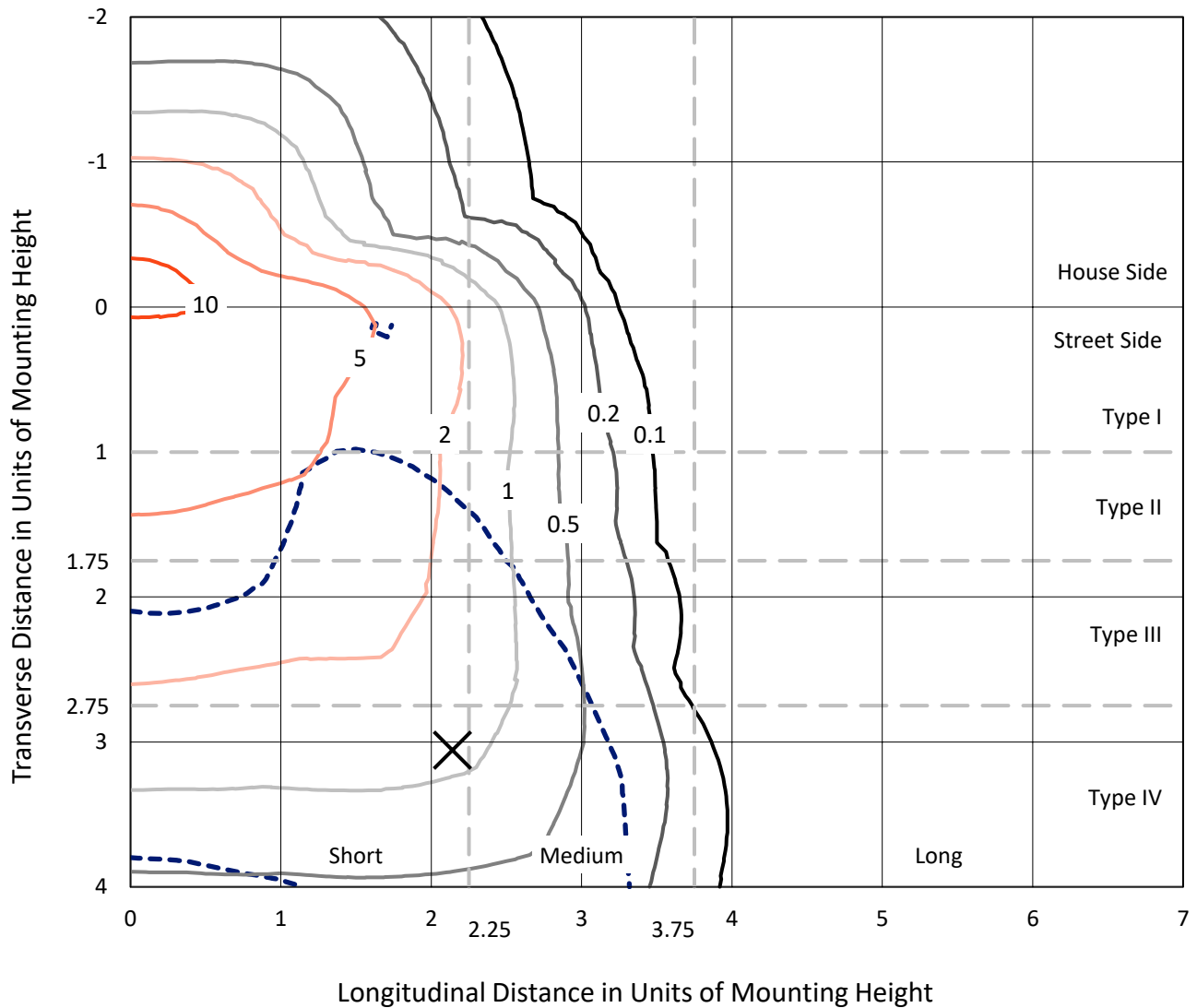
Lumens per Lamp: N/A  
Luminaire Lumens: 53751 lumens  
Efficiency: N/A  
Efficacy: 147.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

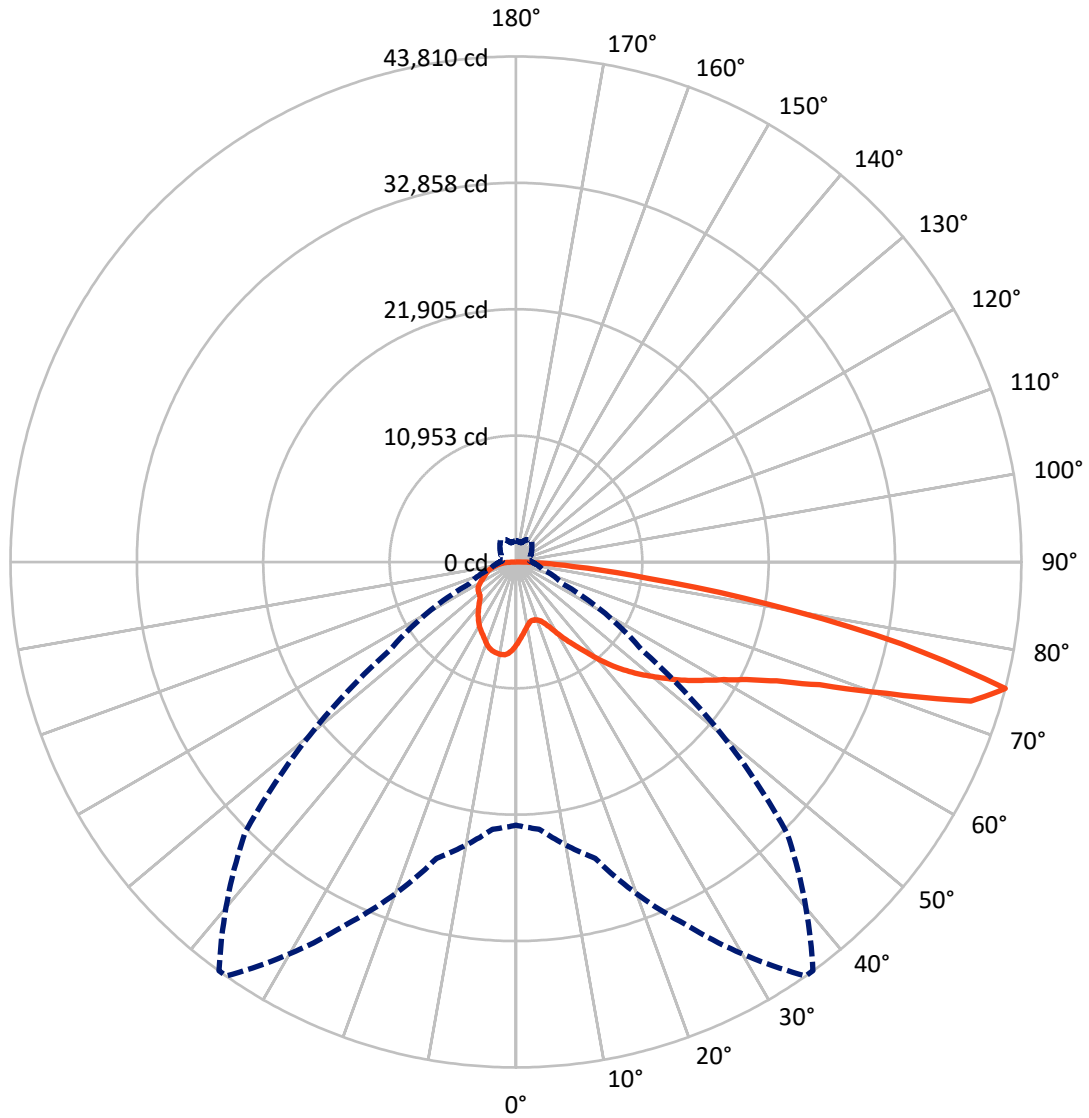
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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	12791.4	0.0	12791.4
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	40959.6	0.0	40959.6
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	53751.0	0.0	53751.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	678.2	1.3
10°-20°	1956.1	3.6
20°-30°	3284.8	6.1
30°-40°	5105.1	9.5
40°-50°	7577.3	14.1
50°-60°	10460.9	19.5
60°-70°	12691.5	23.6
70°-80°	10488.5	19.5
80°-90°	1508.6	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°	53751.0	100.0
0°-180°	53751.0	100.0

**Coefficient of Utilization**



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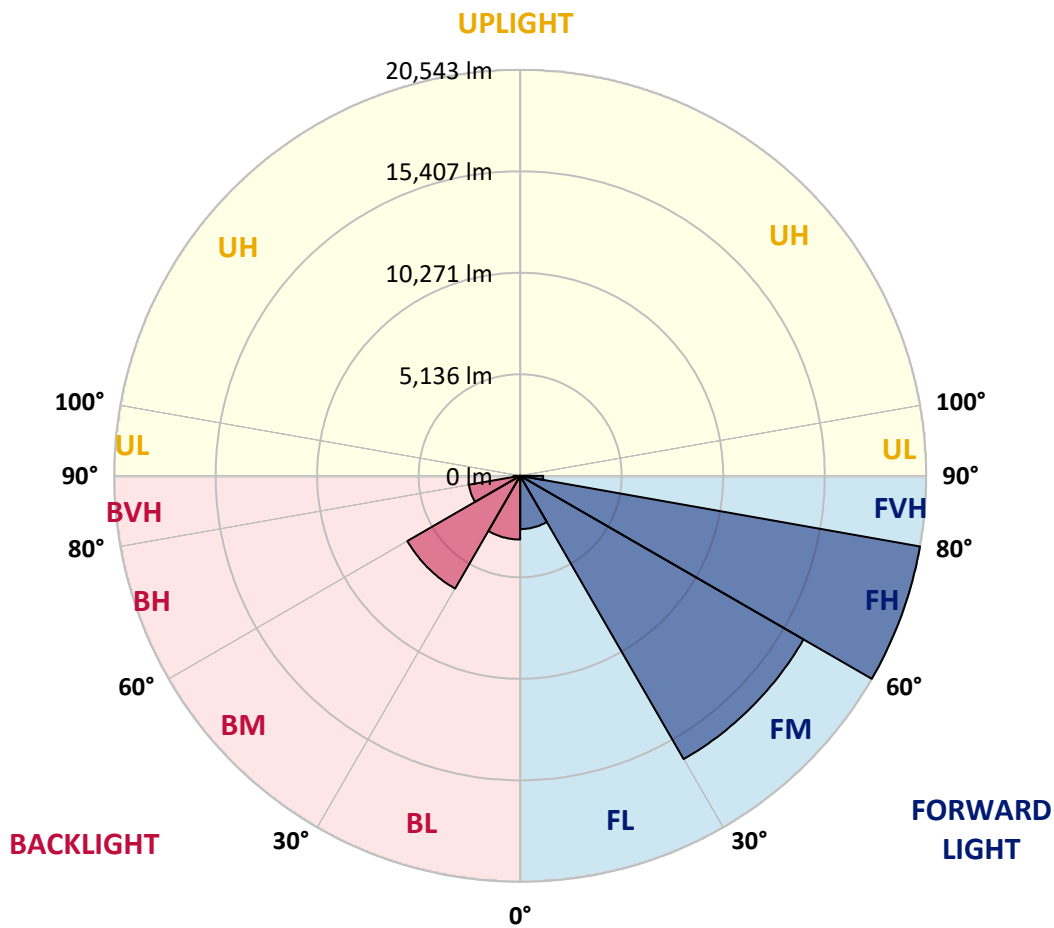
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2695.5	5.0			
FM (30°-60°)	16552.4	30.8			
FH (60°-80°)	20542.8	38.2			G5
FVH (80°-90°)	1168.9	2.2			G5
BL (0°-30°)	3223.6	6.0	B4/5000		
BM (30°-60°)	6590.9	12.3	B4/8500		
BH (60°-80°)	2637.2	4.9	B4/5000		G4/5000
BVH (80°-90°)	339.7	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°	7162.7	7162.7	7162.7	7162.7	7162.7	7162.7	7162.7	7162.7	7162.7	7162.7
2.5°	6604.8	6645.5	6662.9	6654.2	6697.8	6692.0	6753.0	6828.5	6933.1	7034.8
5°	6096.3	6139.9	6177.6	6212.5	6296.8	6322.9	6418.8	6564.1	6755.9	6950.6
7.5°	5622.6	5660.4	5718.5	5782.5	5924.8	5951.0	6110.8	6337.5	6604.8	6889.5
10°	5236.2	5273.9	5335.0	5407.6	5584.9	5616.8	5820.2	6122.4	6471.1	6831.4
12.5°	5070.5	5082.2	5117.0	5189.7	5343.7	5364.0	5587.8	5933.6	6340.4	6787.8
15°	5061.8	5085.1	5088.0	5125.8	5253.6	5262.3	5468.6	5811.5	6259.0	6779.1
17.5°	5149.0	5166.4	5140.3	5163.5	5271.0	5285.6	5448.3	5753.4	6232.8	6816.9
20°	5381.5	5396.0	5317.5	5285.6	5364.0	5375.6	5535.5	5791.2	6259.0	6895.4
22.5°	5875.4	5884.2	5692.4	5561.6	5567.4	5573.2	5712.7	5945.2	6360.7	7037.7
25°	6645.5	6639.6	6334.5	6081.7	5936.5	5904.5	5997.5	6195.1	6532.1	7226.6
27.5°	7546.2	7502.7	7197.6	6819.8	6503.1	6456.6	6436.2	6520.5	6776.2	7476.5
30°	8563.3	8522.6	8194.2	7700.2	7261.5	7185.9	6994.2	6950.6	7139.4	7816.5
32.5°	9679.1	9652.9	9260.6	8662.1	8075.1	7987.9	7665.4	7549.1	7697.3	8330.8
35°	10614.7	10591.5	10266.0	9650.0	8932.3	8824.8	8496.4	8365.7	8441.2	8990.4
37.5°	11460.3	11448.7	11169.7	10684.5	9943.5	9812.7	9443.7	9400.1	9385.6	9859.2
40°	12244.8	12215.8	11925.2	11669.5	11120.3	11001.2	10675.7	10638.0	10527.5	10928.5
42.5°	13113.7	13038.1	12616.8	12497.6	12349.5	12250.7	12056.0	12061.8	11817.7	12134.4
45°	13822.7	13779.1	13346.1	13276.4	13436.2	13395.5	13564.1	13607.6	13134.0	13398.4
47.5°	14584.0	14543.3	14177.2	14127.8	14560.7	14572.4	15168.0	15182.6	14418.4	14711.8
50°	15522.5	15464.4	15101.2	15162.2	15647.5	15691.1	16780.7	16681.9	15601.0	16045.6
52.5°	16141.5	16176.3	16097.9	16196.7	16859.2	16899.9	18367.3	18114.5	16772.0	17361.9
55°	16597.7	16667.4	16911.5	17138.1	18137.7	18178.4	19863.7	19477.3	17742.5	18582.3
57.5°	17184.6	17085.8	17542.0	17983.7	19352.3	19459.8	21319.5	20790.7	18602.6	19634.2
60°	18027.3	17957.6	18312.1	18965.9	20712.2	20883.7	22859.6	21973.3	19233.2	20468.1
62.5°	19735.9	19561.5	19616.7	20195.0	22426.6	22653.3	24597.2	23004.9	19547.0	20793.6
65°	22290.0	21990.7	21711.8	22112.8	24841.3	25065.0	26558.6	23815.6	19430.8	20163.0
67.5°	25506.7	25210.3	24867.4	25245.2	28397.9	28575.2	28979.1	24271.8	18515.5	17733.8
70°	28159.7	28049.2	28459.0	30013.5	34078.7	34084.5	32082.4	23894.0	16007.8	12573.2
72.5°	27808.1	27741.2	29900.2	34706.3	41238.5	41084.5	35020.2	21034.8	10783.3	5672.0
75°	22813.1	23246.0	26590.6	34622.1	43810.1	43789.7	33221.5	13372.3	4460.3	2350.8
77.5°	12233.2	12919.0	17263.1	25561.9	34200.7	34715.0	23356.5	4678.3	1914.9	1505.2
80°	3989.6	4588.2	6880.8	13014.9	22223.2	22127.3	10010.3	1836.4	1310.5	1066.4
82.5°	1694.1	1763.8	3074.3	6145.7	11405.1	11227.8	3187.6	1054.8	921.1	729.3
85°	662.5	741.0	1357.0	2841.8	4939.8	4832.3	1150.7	523.0	589.9	476.5
87.5°	217.9	264.4	485.3	973.4	1537.1	1481.9	281.9	180.2	255.7	217.9
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°
7162.7	0°	7162.7	7162.7	7162.7	7162.7	7162.7	7162.7	7162.7	7162.7	7162.7	7162.7
7183.0	2.5°	7223.7	7270.2	7325.4	7406.8	7476.5	7534.6	7595.6	7633.4	7647.9	7691.5
7194.6	5°	7276.0	7377.7	7514.3	7647.9	7778.7	7857.2	7926.9	7961.8	7993.7	8017.0
7226.6	7.5°	7363.2	7493.9	7709.0	7883.3	7993.7	8057.7	8104.1	8092.5	8104.1	8110.0
7261.5	10°	7438.7	7621.8	7877.5	8043.1	8127.4	8130.3	8118.7	8078.0	8057.7	8060.6
7313.8	12.5°	7528.8	7732.2	8008.3	8147.7	8171.0	8107.1	8057.7	7987.9	7961.8	7950.1
7392.2	15°	7650.9	7883.3	8150.6	8202.9	8144.8	8063.5	7979.2	7865.9	7807.8	7761.3
7525.9	17.5°	7799.0	8054.8	8261.1	8223.3	8098.3	7964.7	7828.1	7656.7	7537.5	7488.1
7709.0	20°	8005.4	8234.9	8345.3	8179.7	7990.8	7787.4	7555.0	7345.7	7235.3	7185.9
7941.4	22.5°	8255.2	8476.1	8426.7	8104.1	7836.8	7511.4	7220.8	7066.8	7011.6	6976.7
8240.7	25°	8554.5	8743.4	8484.8	7993.7	7584.0	7145.2	6921.5	6872.1	6846.0	6819.8
8606.8	27.5°	8943.9	9045.6	8528.4	7831.0	7188.8	6755.9	6674.5	6683.2	6674.5	6630.9
9115.4	30°	9458.2	9437.9	8569.1	7566.6	6735.5	6404.3	6410.1	6447.9	6453.7	6424.6
9824.4	32.5°	10135.3	9929.0	8589.4	7223.7	6302.6	6096.3	6102.1	6142.8	6171.8	6122.4
10751.3	35°	10954.7	10501.4	8557.4	6793.7	5968.4	5802.8	5759.2	5770.8	5779.5	5733.1
11875.8	37.5°	11910.7	11143.6	8415.1	6317.1	5692.4	5515.1	5422.1	5343.7	5297.2	5253.6
13148.5	40°	12959.7	11843.9	8153.5	5852.2	5384.4	5210.0	5070.5	4922.3	4765.4	4707.3
14496.8	42.5°	14058.0	12564.5	7836.8	5407.6	5029.9	4887.5	4739.3	4524.3	4288.9	4169.8
15897.4	45°	15197.1	13302.5	7525.9	4968.8	4666.6	4605.6	4434.2	4175.6	3919.9	3768.8
17300.9	47.5°	16312.9	13999.9	7069.7	4527.2	4326.7	4393.5	4259.8	4021.6	3736.8	3498.5
18692.7	50°	17379.3	14653.7	6322.9	4079.7	4050.6	4329.6	4201.7	3858.8	3533.4	3228.3
20058.4	52.5°	18437.0	15182.6	5366.9	3672.9	3902.4	4312.1	4126.2	3748.4	3350.3	3030.7
21342.8	55°	19334.9	15455.7	4445.8	3324.2	3687.4	4163.9	4036.1	3617.7	3091.7	2751.7
22223.2	57.5°	19846.3	15234.9	3678.7	2981.3	3391.0	3919.9	3882.1	3338.7	2783.7	2522.2
22394.6	60°	19625.5	14339.9	3051.0	2682.0	3109.2	3655.4	3614.8	3062.7	2548.3	2301.4
21476.4	62.5°	18408.0	12634.2	2554.2	2420.5	2853.5	3385.2	3347.4	2850.5	2368.2	2129.9
19038.5	65°	15955.5	10277.7	2167.7	2202.6	2594.8	3059.8	3115.0	2673.3	2225.8	1993.3
14729.3	67.5°	12169.3	7444.5	1865.5	2013.7	2342.0	2740.1	2899.9	2545.4	2106.7	1885.8
8522.6	70°	6936.0	4227.9	1609.8	1830.6	2118.3	2443.7	2734.3	2443.7	1978.8	1795.8
3193.4	72.5°	2629.7	1941.0	1391.9	1647.6	1903.3	2193.8	2551.3	2283.9	1830.6	1694.1
1650.5	75°	1403.5	1182.6	1171.0	1432.5	1656.3	1949.8	2321.7	2127.0	1720.2	1789.9
1142.0	77.5°	956.0	836.9	979.2	1226.2	1386.0	1679.5	2077.6	1888.7	1490.7	1484.8
790.4	80°	662.5	592.8	796.2	988.0	1072.2	1412.2	1813.2	1621.4	1214.6	1133.2
488.2	82.5°	398.1	386.5	595.7	738.1	758.4	1089.7	1502.3	1359.9	993.8	865.9
290.6	85°	217.9	229.6	380.7	433.0	441.7	761.3	1176.8	1051.9	764.2	642.2
104.6	87.5°	61.0	78.5	139.5	171.4	212.1	395.2	700.3	624.7	383.6	267.3
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>
7162.7
7688.6
8022.8
8118.7
8066.4
7944.3
7775.8
7491.0
7180.1
6982.5
6819.8
6639.6
6439.2
6145.7
5765.0
5282.7
4733.5
4184.3
3757.1
3472.4
3202.1
2995.8
2722.7
2487.3
2266.5
2092.1
1955.6
1851.0
1772.5
1670.8
<i>1848.1</i>
1368.6
1083.8
871.7
648.0
267.3
0.0

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