

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: P944369

Luminaire Tested: **GALN-SB9B-740-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944369  
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-SB9B-740-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

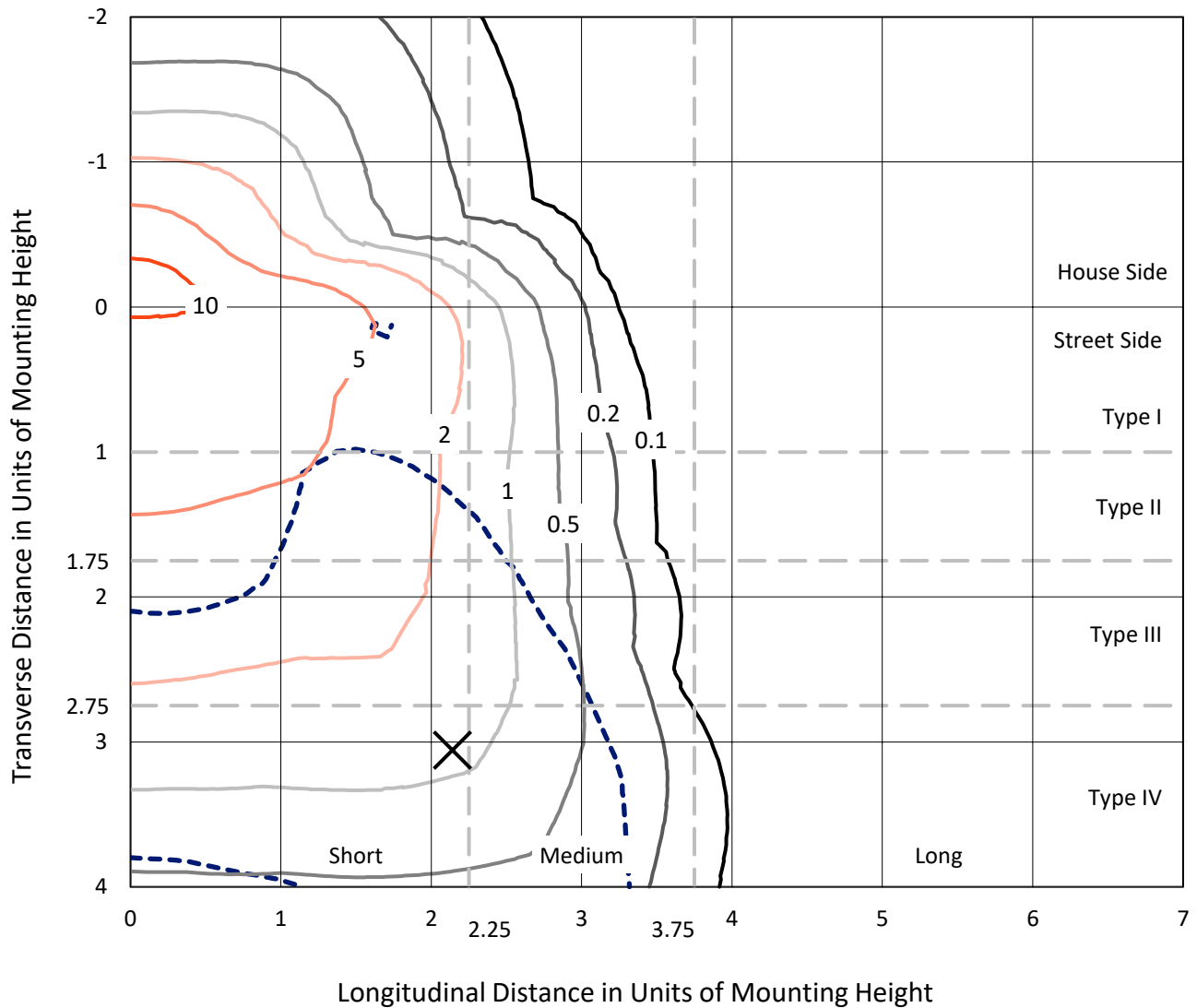
Lumens per Lamp: N/A  
Luminaire Lumens: 53632 lumens  
Efficiency: N/A  
Efficacy: 162.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

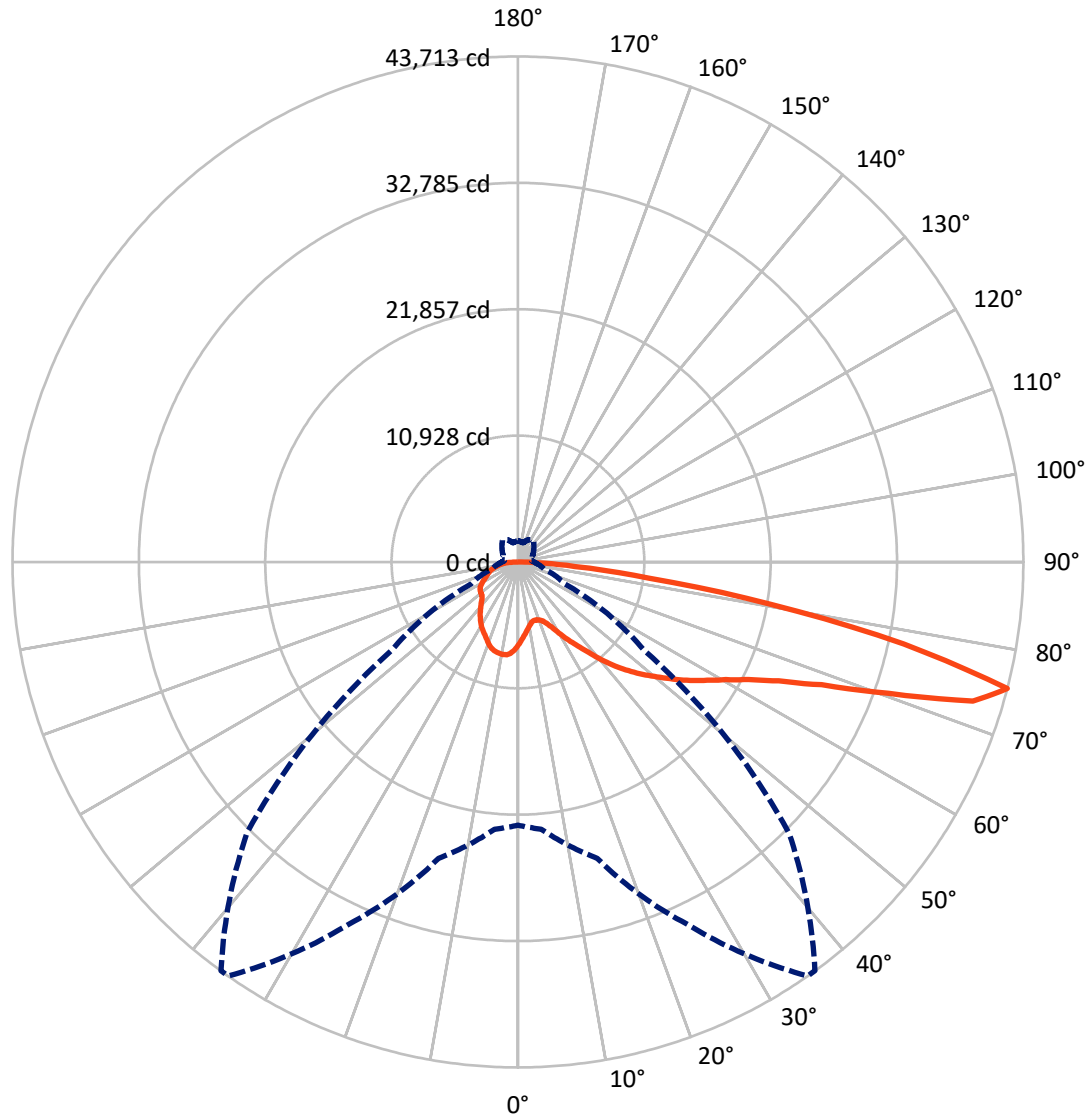
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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	12763.1	0.0	12763.1
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	40868.9	0.0	40868.9
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	53632.0	0.0	53632.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	676.7	1.3
10°-20°	1951.8	3.6
20°-30°	3277.6	6.1
30°-40°	5093.8	9.5
40°-50°	7560.5	14.1
50°-60°	10437.8	19.5
60°-70°	12663.4	23.6
70°-80°	10465.3	19.5
80°-90°	1505.2	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°	53632.0	100.0
0°-180°	53632.0	100.0

**Coefficient of Utilization**



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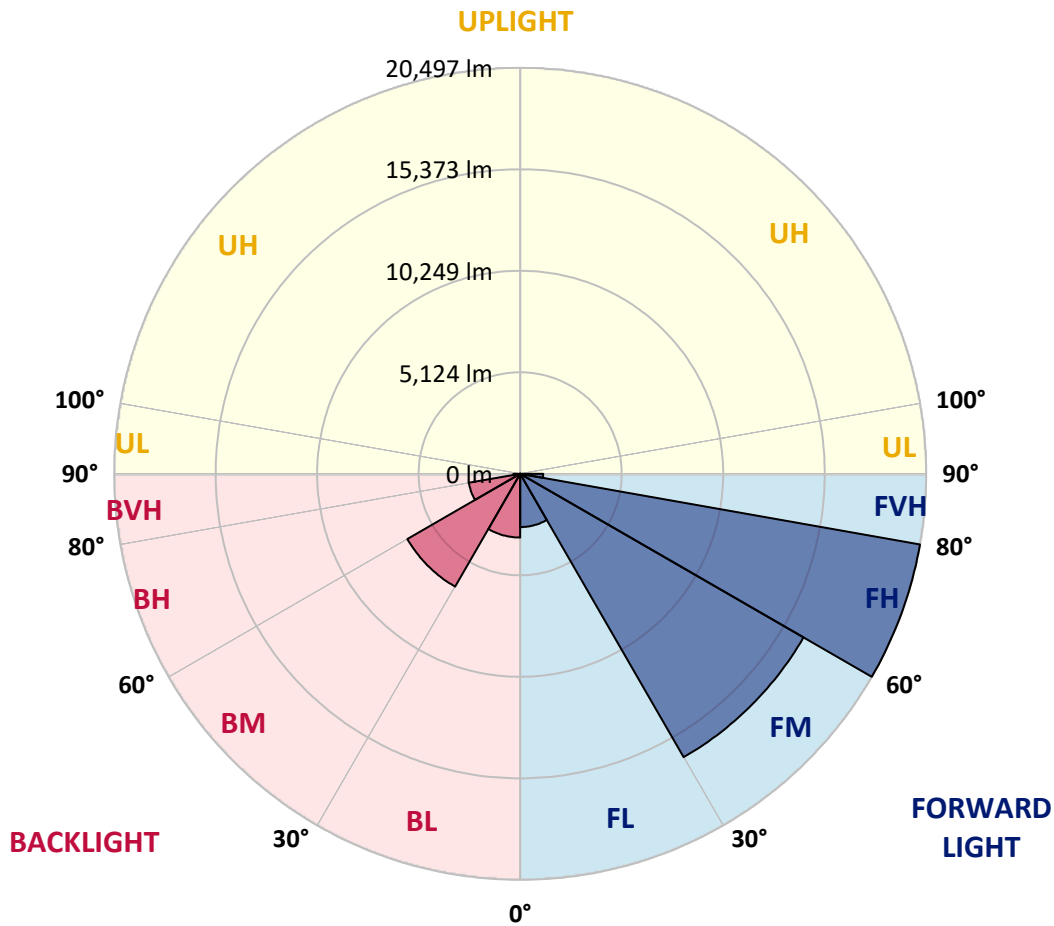
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2689.5	5.0			
FM (30°-60°)	16515.8	30.8			
FH (60°-80°)	20497.4	38.2			G5
FVH (80°-90°)	1166.3	2.2			G5
BL (0°-30°)	3216.5	6.0	B4/5000		
BM (30°-60°)	6576.3	12.3	B4/8500		
BH (60°-80°)	2631.4	4.9	B4/5000		G4/5000
BVH (80°-90°)	338.9	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°	7146.8	7146.8	7146.8	7146.8	7146.8	7146.8	7146.8	7146.8	7146.8	7146.8
2.5°	6590.2	6630.7	6648.1	6639.4	6682.9	6677.1	6738.0	6813.4	6917.8	7019.3
5°	6082.8	6126.3	6164.0	6198.7	6282.8	6308.9	6404.6	6549.6	6740.9	6935.2
7.5°	5610.2	5647.9	5705.9	5769.6	5911.7	5937.8	6097.3	6323.4	6590.2	6874.3
10°	5224.6	5262.3	5323.2	5395.6	5572.5	5604.4	5807.3	6108.9	6456.8	6816.3
12.5°	5059.3	5070.9	5105.7	5178.2	5331.9	5352.1	5575.4	5920.4	6326.3	6772.8
15°	5050.6	5073.8	5076.7	5114.4	5242.0	5250.7	5456.5	5798.6	6245.1	6764.1
17.5°	5137.6	5155.0	5128.9	5152.1	5259.4	5273.9	5436.2	5740.7	6219.0	6801.8
20°	5369.5	5384.0	5305.8	5273.9	5352.1	5363.7	5523.2	5778.3	6245.1	6880.1
22.5°	5862.4	5871.1	5679.8	5549.3	5555.1	5560.9	5700.1	5932.0	6346.6	7022.2
25°	6630.7	6624.9	6320.5	6068.3	5923.3	5891.4	5984.2	6181.4	6517.7	7210.6
27.5°	7529.5	7486.0	7181.6	6804.7	6488.7	6442.3	6422.0	6506.1	6761.2	7460.0
30°	8544.3	8503.7	8176.1	7683.2	7245.4	7170.0	6978.7	6935.2	7123.6	7799.2
32.5°	9657.6	9631.5	9240.1	8642.9	8057.2	7970.2	7648.4	7532.4	7680.3	8312.4
35°	10591.2	10568.0	10243.3	9628.6	8912.5	8805.2	8477.6	8347.1	8422.5	8970.5
37.5°	11434.9	11423.3	11145.0	10660.8	9921.5	9791.0	9422.8	9379.3	9364.8	9837.4
40°	12217.7	12188.7	11898.8	11643.7	11095.7	10976.8	10652.1	10614.4	10504.2	10904.3
42.5°	13084.6	13009.3	12588.9	12470.0	12322.1	12223.5	12029.3	12035.1	11791.5	12107.6
45°	13792.1	13748.6	13316.6	13247.0	13406.5	13365.9	13534.0	13577.5	13104.9	13368.8
47.5°	14551.7	14511.1	14145.8	14096.5	14528.5	14540.1	15134.5	15149.0	14386.4	14679.3
50°	15488.2	15430.2	15067.8	15128.7	15612.8	15656.3	16743.6	16645.0	15566.5	16010.1
52.5°	16105.7	16140.5	16062.2	16160.8	16821.9	16862.5	18326.6	18074.4	16734.9	17323.4
55°	16560.9	16630.5	16874.0	17100.2	18097.6	18138.2	19819.8	19434.2	17703.3	18541.2
57.5°	17146.6	17048.0	17503.2	17943.9	19309.5	19416.8	21272.3	20744.6	18561.5	19590.7
60°	17987.4	17917.8	18271.5	18923.9	20666.4	20837.4	22809.0	21924.7	19190.6	20422.8
62.5°	19692.2	19518.2	19573.3	20150.3	22377.0	22603.1	24542.8	22953.9	19503.7	20747.5
65°	22240.7	21942.1	21663.7	22063.8	24786.3	25009.5	26499.8	23762.8	19387.8	20118.4
67.5°	25450.2	25154.5	24812.4	25189.3	28335.1	28511.9	28914.9	24218.0	18474.5	17694.6
70°	28097.3	27987.1	28396.0	29947.1	34003.2	34009.0	32011.4	23841.1	15972.4	12545.4
72.5°	27746.5	27679.8	29834.0	34629.5	41147.2	40993.5	34942.6	20988.2	10759.4	5659.5
75°	22762.6	23194.6	26531.7	34545.4	43713.1	43692.8	33147.9	13342.7	4450.5	2345.6
77.5°	12206.1	12890.4	17224.9	25505.3	34125.0	34638.2	23304.7	4667.9	1910.7	1501.8
80°	3980.8	4578.0	6865.6	12986.1	22174.0	22078.3	9988.2	1832.4	1307.6	1064.1
82.5°	1690.3	1759.9	3067.5	6132.1	11379.8	11203.0	3180.6	1052.5	919.1	727.7
85°	661.0	739.3	1354.0	2835.5	4928.8	4821.6	1148.1	521.9	588.6	475.5
87.5°	217.4	263.8	484.2	971.3	1533.7	1478.7	281.2	179.8	255.1	217.4
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°
7146.8	0°	7146.8	7146.8	7146.8	7146.8	7146.8	7146.8	7146.8	7146.8	7146.8	7146.8
7167.1	2.5°	7207.7	7254.1	7309.2	7390.4	7460.0	7517.9	7578.8	7616.5	7631.0	7674.5
7178.7	5°	7259.9	7361.4	7497.6	7631.0	7761.5	7839.8	7909.3	7944.1	7976.0	7999.2
7210.6	7.5°	7346.9	7477.3	7691.9	7865.9	7976.0	8039.8	8086.2	8074.6	8086.2	8092.0
7245.4	10°	7422.3	7604.9	7860.1	8025.3	8109.4	8112.3	8100.7	8060.1	8039.8	8042.7
7297.6	12.5°	7512.1	7715.1	7990.5	8129.7	8152.9	8089.1	8039.8	7970.2	7944.1	7932.5
7375.9	15°	7633.9	7865.9	8132.6	8184.8	8126.8	8045.6	7961.5	7848.5	7790.5	7744.1
7509.2	17.5°	7781.8	8036.9	8242.8	8205.1	8080.4	7947.0	7810.8	7639.7	7520.8	7471.6
7691.9	20°	7987.6	8216.7	8326.9	8161.6	7973.1	7770.2	7538.2	7329.5	7219.3	7170.0
7923.8	22.5°	8237.0	8457.3	8408.0	8086.2	7819.5	7494.7	7204.8	7051.1	6996.1	6961.3
8222.5	25°	8535.6	8724.1	8466.0	7976.0	7567.2	7129.4	6906.2	6856.9	6830.8	6804.7
8587.8	27.5°	8924.1	9025.6	8509.5	7813.7	7172.9	6740.9	6659.7	6668.4	6659.7	6616.3
9095.2	30°	9437.3	9417.0	8550.1	7549.8	6720.6	6390.1	6395.9	6433.6	6439.4	6410.4
9802.6	32.5°	10112.8	9907.0	8570.4	7207.7	6288.6	6082.8	6088.6	6129.2	6158.2	6108.9
10727.5	35°	10930.4	10478.1	8538.5	6778.6	5955.2	5789.9	5746.5	5758.1	5766.7	5720.4
11849.5	37.5°	11884.3	11118.9	8396.4	6303.1	5679.8	5502.9	5410.1	5331.9	5285.5	5242.0
13119.4	40°	12931.0	11817.6	8135.5	5839.2	5372.4	5198.5	5059.3	4911.5	4754.9	4696.9
14464.7	42.5°	14026.9	12536.7	7819.5	5395.6	5018.7	4876.7	4728.8	4514.2	4279.4	4160.5
15862.2	45°	15163.4	13273.1	7509.2	4957.8	4656.3	4595.4	4424.4	4166.3	3911.2	3760.4
17262.6	47.5°	16276.8	13968.9	7054.0	4517.1	4317.1	4383.8	4250.4	4012.7	3728.5	3490.8
18651.3	50°	17340.8	14621.3	6308.9	4070.6	4041.7	4320.0	4192.4	3850.3	3525.6	3221.1
20014.0	52.5°	18396.2	15149.0	5355.0	3664.7	3893.8	4302.6	4117.0	3740.1	3342.9	3024.0
21295.5	55°	19292.1	15421.5	4436.0	3316.8	3679.2	4154.7	4027.2	3609.7	3084.9	2745.7
22174.0	57.5°	19802.4	15201.1	3670.5	2974.7	3383.5	3911.2	3873.5	3331.3	2777.5	2516.6
22345.1	60°	19582.0	14308.2	3044.3	2676.1	3102.3	3647.3	3606.8	3055.9	2542.7	2296.3
21428.9	62.5°	18367.2	12606.2	2548.5	2415.1	2847.1	3377.7	3340.0	2844.2	2362.9	2125.2
18996.4	65°	15920.2	10254.9	2162.9	2197.7	2589.1	3053.0	3108.1	2667.4	2220.9	1988.9
14696.7	67.5°	12142.4	7428.1	1861.4	2009.2	2336.9	2734.1	2893.5	2539.8	2102.0	1881.7
8503.7	70°	6920.7	4218.5	1606.2	1826.6	2113.6	2438.3	2728.3	2438.3	1974.4	1791.8
3186.4	72.5°	2623.9	1936.7	1388.8	1643.9	1899.1	2189.0	2545.6	2278.9	1826.6	1690.3
1646.8	75°	1400.4	1180.0	1168.4	1429.4	1652.6	1945.4	2316.6	2122.3	1716.4	1786.0
1139.4	77.5°	953.9	835.0	977.1	1223.5	1383.0	1675.8	2073.0	1884.6	1487.4	1481.6
788.6	80°	661.0	591.5	794.4	985.8	1069.8	1409.1	1809.2	1617.8	1211.9	1130.7
487.1	82.5°	397.2	385.6	594.4	736.4	756.7	1087.2	1498.9	1356.9	991.6	864.0
289.9	85°	217.4	229.0	379.8	432.0	440.7	759.6	1174.2	1049.6	762.5	640.7
104.4	87.5°	60.9	78.3	139.2	171.1	211.7	394.3	698.7	623.4	382.7	266.7
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>
7146.8
7671.6
8005.0
8100.7
8048.5
7926.7
7758.6
7474.5
7164.2
6967.1
6804.7
6624.9
6424.9
6132.1
5752.3
5271.0
4723.0
4175.0
3748.8
3464.7
3195.1
2989.2
2716.7
2481.8
2261.5
2087.5
1951.2
1846.9
1768.6
1667.1
<i>1844.0</i>
1365.6
1081.4
869.8
646.5
266.7
0.0

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