

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: P953271

Luminaire Tested: **GALN-SB6D-840-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953271  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB6D-840-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

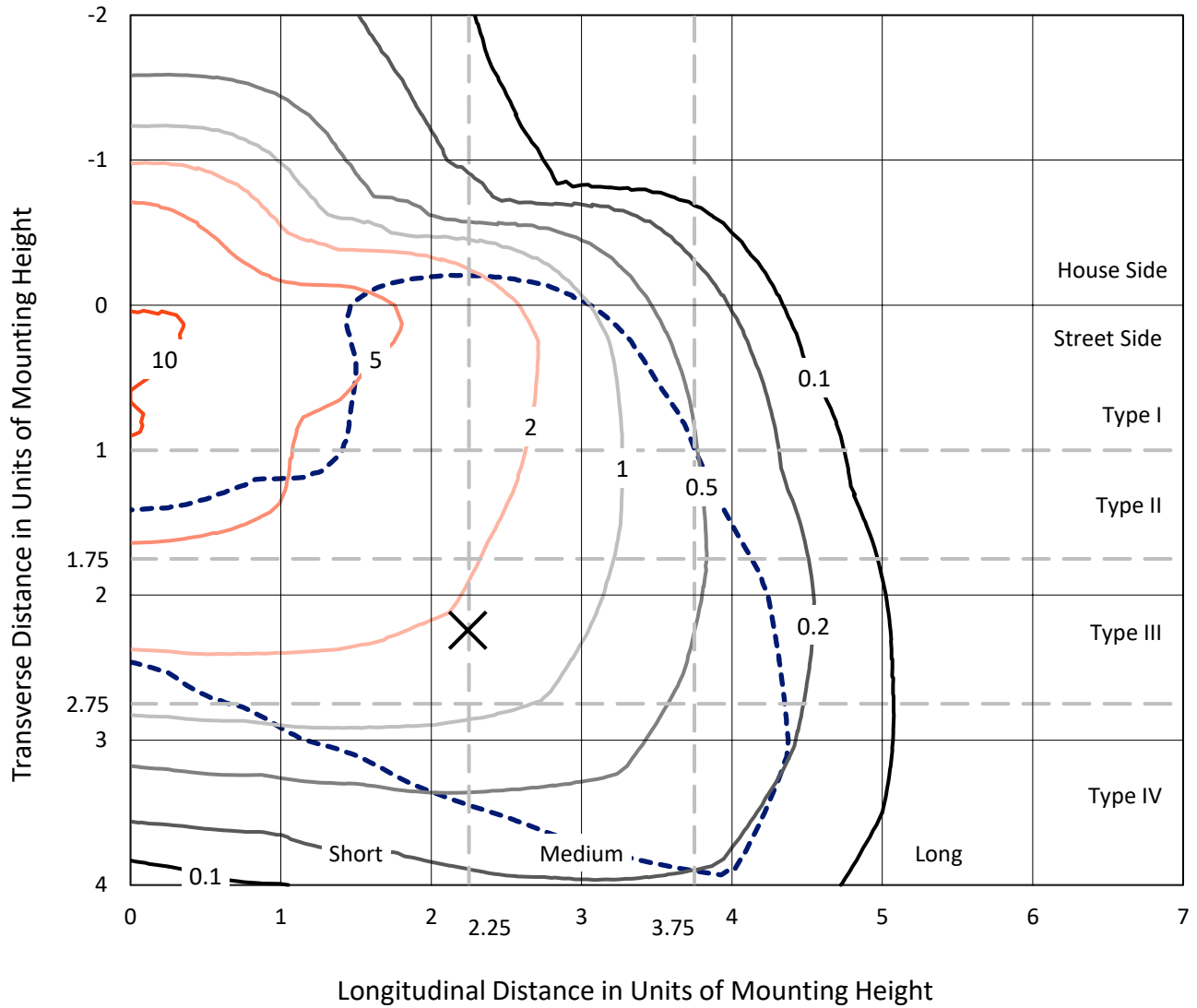
Lumens per Lamp: N/A  
Luminaire Lumens: 58910 lumens  
Efficiency: N/A  
Efficacy: 133.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

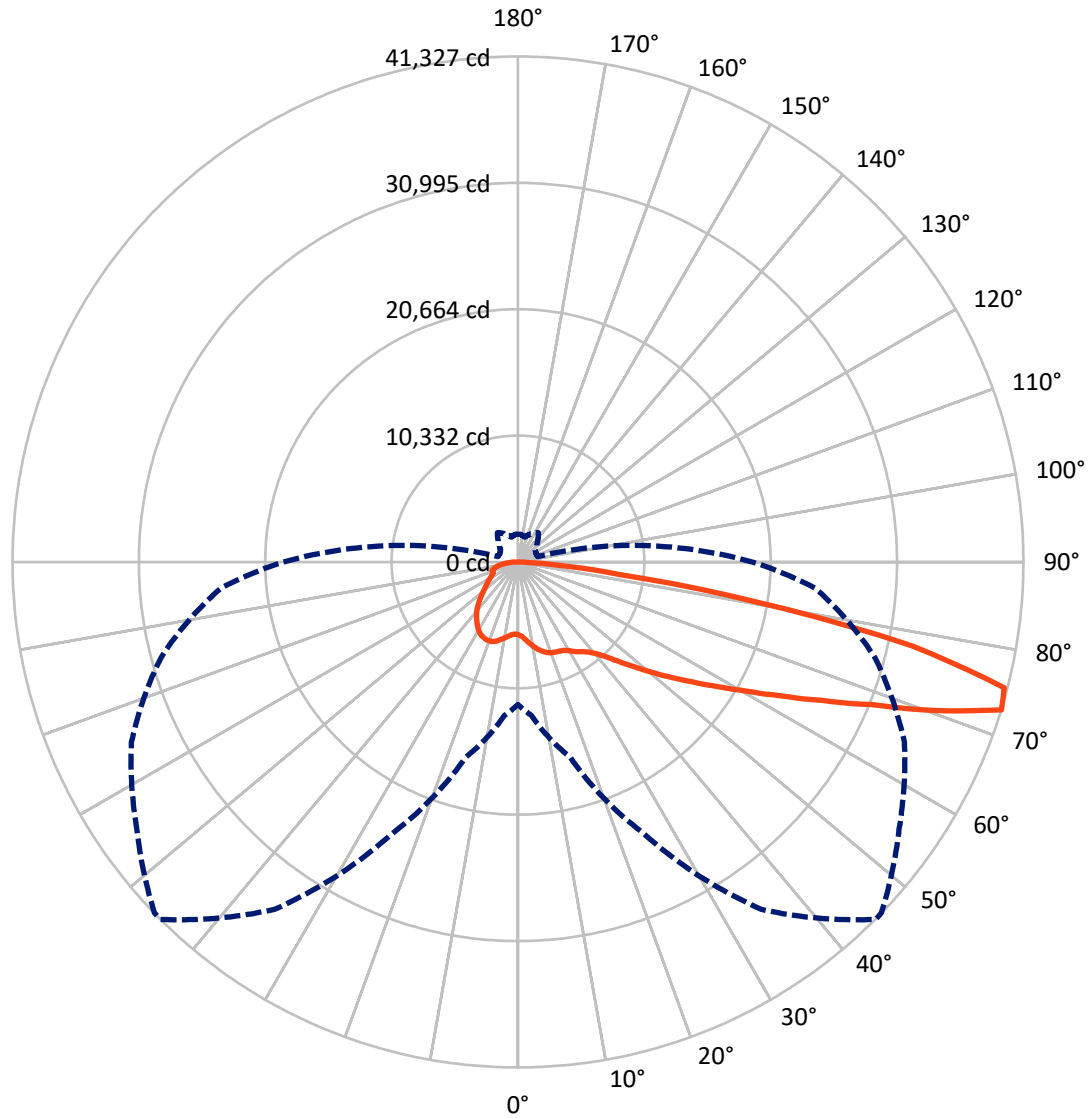
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13317.5	0.0	13317.5
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	45592.5	0.0	45592.5
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	58910.0	0.0	58910.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	604.9	1.0
10°-20°	2016.7	3.4
20°-30°	3508.2	6.0
30°-40°	5029.2	8.5
40°-50°	7081.3	12.0
50°-60°	10846.5	18.4
60°-70°	15712.8	26.7
70°-80°	12547.6	21.3
80°-90°	1562.7	2.7
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°	58910.0	100.0
0°-180°	58910.0	100.0



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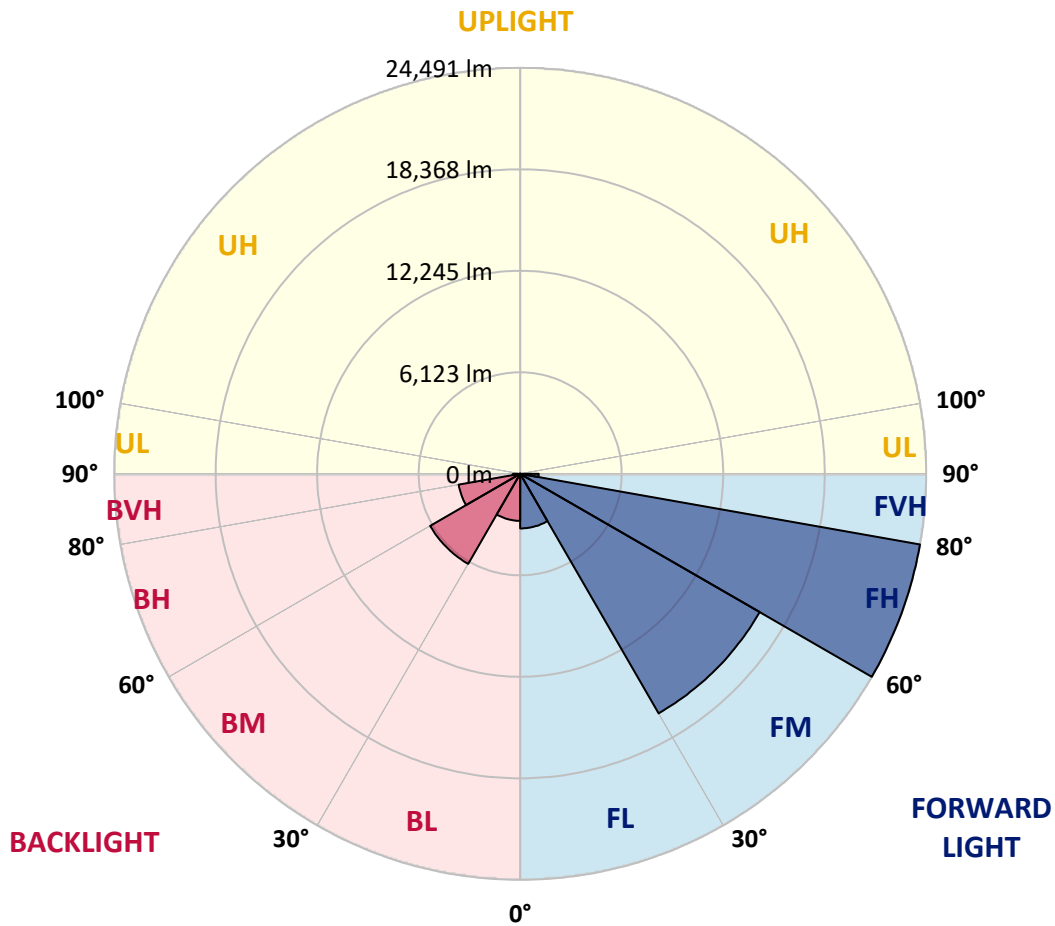
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3294.3	5.6			
FM (30°-60°)	16686.4	28.3			
FH (60°-80°)	24490.6	41.6			G5
FVH (80°-90°)	1121.1	1.9			G5
BL (0°-30°)	2835.4	4.8	B4/5000		
BM (30°-60°)	6270.7	10.6	B4/8500		
BH (60°-80°)	3769.8	6.4	B4/5000		G4/5000
BVH (80°-90°)	441.6	0.7			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°	45°	46°	55°	65°	75°
0°	5942.9	5942.9	5942.9	5942.9	5942.9	5942.9	5942.9	5942.9	5942.9	5942.9
2.5°	6175.6	6216.0	6178.7	6144.6	6129.1	6088.7	6085.6	6060.8	6045.3	6001.8
5°	6607.0	6659.7	6597.7	6529.4	6467.3	6368.0	6355.6	6284.2	6203.6	6110.5
7.5°	7094.2	7140.8	7069.4	6967.0	6858.4	6693.9	6690.8	6560.4	6433.2	6274.9
10°	7519.4	7581.4	7485.2	7345.6	7209.0	7022.8	7001.1	6852.1	6690.8	6486.0
12.5°	7894.9	7938.3	7845.2	7674.5	7516.3	7330.1	7302.1	7137.7	6957.7	6724.9
15°	8192.8	8248.6	8124.5	7941.4	7773.8	7590.7	7565.9	7417.0	7237.0	6991.8
17.5°	8388.3	8434.8	8307.6	8102.8	7941.4	7789.4	7770.7	7646.6	7488.3	7240.1
20°	8462.8	8512.4	8379.0	8171.1	8022.1	7904.2	7894.9	7804.9	7696.3	7469.7
22.5°	8537.3	8583.8	8410.0	8192.8	8062.4	7988.0	7984.9	7925.9	7882.5	7696.3
25°	8838.3	8850.7	8617.9	8304.5	8118.3	8053.1	8050.0	8046.9	8065.5	7919.7
27.5°	9099.0	9095.9	8897.2	8602.4	8313.8	8177.3	8174.2	8205.2	8264.2	8143.1
30°	9480.7	9446.5	9210.7	8903.4	8639.7	8428.6	8410.0	8382.1	8428.6	8332.4
32.5°	10290.6	10182.0	9800.3	9254.1	8909.7	8748.3	8723.5	8549.7	8568.3	8509.3
35°	11451.3	11308.5	10799.6	9918.2	9244.8	9015.2	9002.8	8782.4	8745.2	8692.4
37.5°	12832.3	12655.4	12062.6	10880.3	9822.0	9325.5	9306.9	9108.3	8956.2	8900.3
40°	14219.4	13996.0	13505.7	12053.3	10672.3	9843.8	9784.8	9483.8	9310.0	9216.9
42.5°	15566.3	15380.1	14961.1	13369.1	11721.3	10601.0	10470.6	9955.5	9825.1	9738.2
45°	16758.0	16590.4	16283.2	14774.9	12950.2	11631.3	11504.0	10663.0	10622.7	10622.7
47.5°	17726.2	17689.0	17363.1	16208.7	14399.4	12804.3	12584.0	11646.8	11755.4	11923.0
50°	18800.0	18697.5	18350.0	17620.7	16103.2	14148.1	13968.1	12854.0	13260.5	13719.8
52.5°	19786.8	19842.7	19454.8	19091.7	18027.2	15647.0	15330.4	14278.4	15156.7	15917.0
55°	20801.6	20804.7	20696.1	20646.4	20044.4	17304.2	16956.6	15991.4	17387.9	18331.4
57.5°	21754.3	21760.5	21921.9	22359.5	22384.3	19215.8	18821.7	18095.5	19867.5	20829.5
60°	22604.6	22648.1	23088.8	24112.9	24441.8	21406.8	21034.4	20581.3	22430.9	23399.1
62.5°	22890.1	23048.4	24029.1	25484.5	26474.5	24094.2	23728.0	23458.1	25124.5	26024.5
65°	22406.0	22769.1	24665.2	26617.2	28566.1	27287.6	26924.5	26629.7	27923.7	28771.0
67.5°	21217.5	21686.1	24628.0	27805.8	31104.7	31129.5	30791.2	30099.2	30924.7	31250.5
70°	18086.2	18787.5	22458.8	28249.6	34018.7	36383.4	36057.6	34276.3	33919.4	32342.9
72.5°	11653.0	12596.4	16537.6	24597.0	34667.3	41327.0	41308.4	38046.8	34865.9	30220.2
75°	4251.6	4828.8	7683.8	15439.1	29099.9	41075.6	41196.7	37401.3	31827.7	23343.2
77.5°	1548.6	1694.4	2507.5	5933.6	17896.9	32957.3	33208.7	29900.6	22654.3	11715.1
80°	813.1	893.8	1284.8	2302.7	7668.3	19572.7	19966.8	17769.7	10647.5	3528.5
82.5°	450.0	487.2	720.0	1250.6	3454.0	8369.7	8605.5	7019.7	3745.7	1495.8
85°	242.1	257.6	338.3	682.7	1688.2	2901.6	2966.8	2097.8	1492.7	878.2
87.5°	71.4	86.9	111.7	217.2	661.0	651.7	667.2	415.8	589.6	443.8
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°
5942.9	0°	5942.9	5942.9	5942.9	5942.9	5942.9	5942.9	5942.9	5942.9	5942.9	5942.9
5989.4	2.5°	5970.8	5961.5	5927.4	5911.8	5893.2	5890.1	5905.6	5908.7	5911.8	5914.9
6057.7	5°	6026.7	5995.6	5964.6	5946.0	5952.2	5955.3	5986.3	6008.0	6023.6	6036.0
6184.9	7.5°	6135.3	6110.5	6057.7	6054.6	6063.9	6091.8	6132.2	6181.8	6209.8	6231.5
6349.4	10°	6296.7	6250.1	6188.0	6197.3	6216.0	6256.3	6340.1	6380.4	6427.0	6467.3
6551.1	12.5°	6461.1	6420.8	6349.4	6355.6	6386.6	6458.0	6538.7	6588.4	6619.4	6650.4
6768.4	15°	6675.3	6603.9	6526.3	6526.3	6582.2	6659.7	6697.0	6737.3	6755.9	6790.1
7001.1	17.5°	6895.6	6802.5	6700.1	6693.9	6762.2	6799.4	6821.1	6827.3	6833.5	6870.8
7227.7	20°	7115.9	7013.5	6867.7	6855.3	6870.8	6864.6	6861.5	6855.3	6864.6	6911.1
7460.4	22.5°	7333.2	7215.2	7013.5	6957.7	6914.2	6855.3	6852.1	6849.0	6855.3	6901.8
7711.8	25°	7587.6	7444.9	7174.9	7007.3	6861.5	6780.8	6790.1	6793.2	6799.4	6836.6
7972.4	27.5°	7863.8	7705.6	7323.9	6991.8	6728.0	6672.2	6656.6	6665.9	6687.7	6746.6
8233.1	30°	8140.0	7953.8	7460.4	6929.7	6560.4	6482.9	6433.2	6454.9	6523.2	6582.2
8459.7	32.5°	8391.4	8205.2	7569.0	6793.2	6346.3	6225.3	6160.1	6188.0	6256.3	6278.0
8711.0	35°	8686.2	8475.2	7615.6	6576.0	6113.6	5927.4	5840.5	5800.1	5834.3	5812.5
9005.9	37.5°	9015.2	8794.8	7609.4	6290.4	5840.5	5626.3	5505.3	5353.2	5281.9	5207.4
9440.3	40°	9502.4	9185.8	7534.9	5946.0	5502.2	5306.7	5089.5	4831.9	4670.5	4524.7
10141.7	42.5°	10166.5	9728.9	7398.3	5567.4	5120.5	4937.4	4642.6	4341.6	4087.1	3845.0
11206.1	45°	11156.5	10439.6	7227.7	5163.9	4707.7	4527.8	4208.1	3869.8	3581.2	3270.9
12717.4	47.5°	12584.0	11395.4	7066.3	4704.6	4273.3	4108.8	3820.2	3506.8	3165.4	2864.4
14902.2	50°	14545.3	12767.1	6917.3	4257.8	3845.0	3720.9	3491.2	3171.6	2827.1	2585.1
17462.4	52.5°	17040.4	14632.2	6855.3	3826.4	3444.7	3398.1	3215.0	2917.1	2591.3	2386.5
20447.8	55°	19904.7	16863.5	6855.3	3413.7	3094.0	3109.5	2982.3	2706.1	2423.7	2240.6
23526.3	57.5°	22828.1	19122.7	6731.1	3032.0	2796.1	2861.3	2780.6	2538.5	2284.0	2094.7
26763.1	60°	25521.8	21015.7	6228.4	2684.4	2532.3	2634.7	2582.0	2374.0	2063.7	1905.4
29469.2	62.5°	27591.7	22083.3	5260.1	2408.2	2315.1	2433.0	2405.1	2156.8	2023.4	1958.2
31691.2	65°	28628.2	21909.5	4021.9	2163.0	2132.0	2315.1	2256.1	2246.8	2141.3	2066.8
32414.3	67.5°	27992.0	20413.7	2917.1	1983.0	2026.5	2206.5	2433.0	2470.2	2274.7	2128.9
30378.5	70°	25202.1	17707.6	2172.3	1812.3	1893.0	2209.6	2774.4	2585.1	2231.3	2060.6
24364.2	72.5°	19172.4	13204.7	1685.1	1632.4	1719.2	2225.1	2926.4	2532.3	2107.2	2277.8
15178.4	75°	10964.1	7249.4	1353.1	1412.0	1502.0	2079.2	2848.9	2395.8	2011.0	2091.6
6014.2	77.5°	4180.2	2786.8	1117.2	1194.8	1207.2	1815.4	2724.7	2386.5	1914.8	1868.2
1803.0	80°	1449.3	1089.3	924.8	949.6	934.1	1613.7	2613.0	2076.1	1567.2	1402.7
744.8	82.5°	592.7	543.1	732.4	701.4	664.1	1253.7	2110.3	1697.5	1281.7	1132.7
360.0	85°	257.6	344.5	484.1	425.2	384.8	868.9	1691.3	1436.8	1083.1	934.1
117.9	87.5°	52.8	130.3	204.8	192.4	198.6	580.3	1201.0	1021.0	766.5	574.1
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>
5942.9
5927.4
6042.2
6237.7
6458.0
6662.8
6802.5
6883.2
6929.7
6932.8
6886.3
6805.6
6647.3
6355.6
5880.8
5253.9
4534.0
3823.3
3233.7
2830.2
2569.6
2370.9
2222.0
2063.7
1880.6
1936.5
2042.0
2104.1
2032.7
2259.2
2091.6
1703.7
1356.2
1120.3
931.0
450.0
0.0

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