

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: P951143

Luminaire Tested: **GALN-SB5B-850-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951143  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5B-850-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

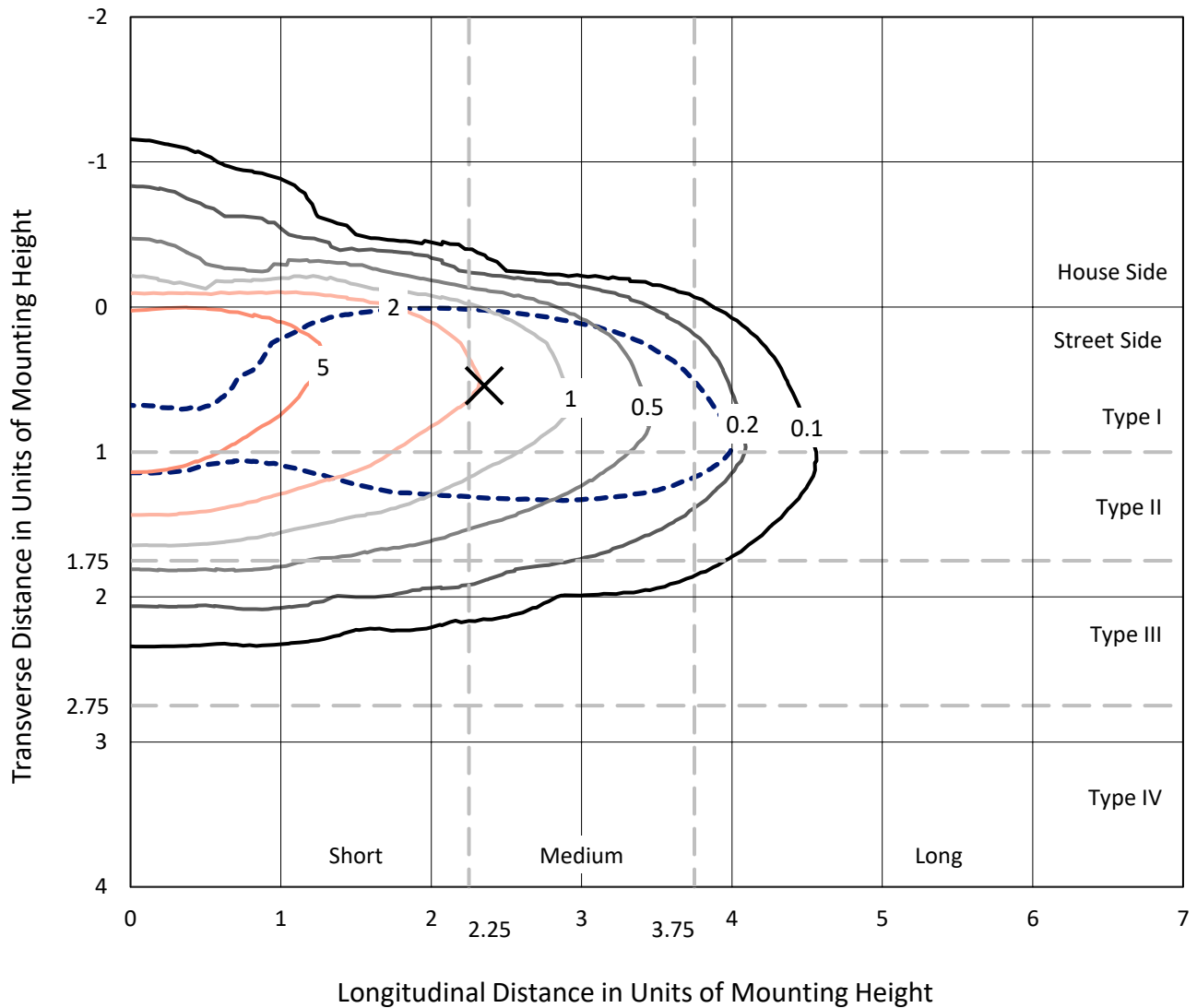
Lumens per Lamp: N/A  
Luminaire Lumens: 23037 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

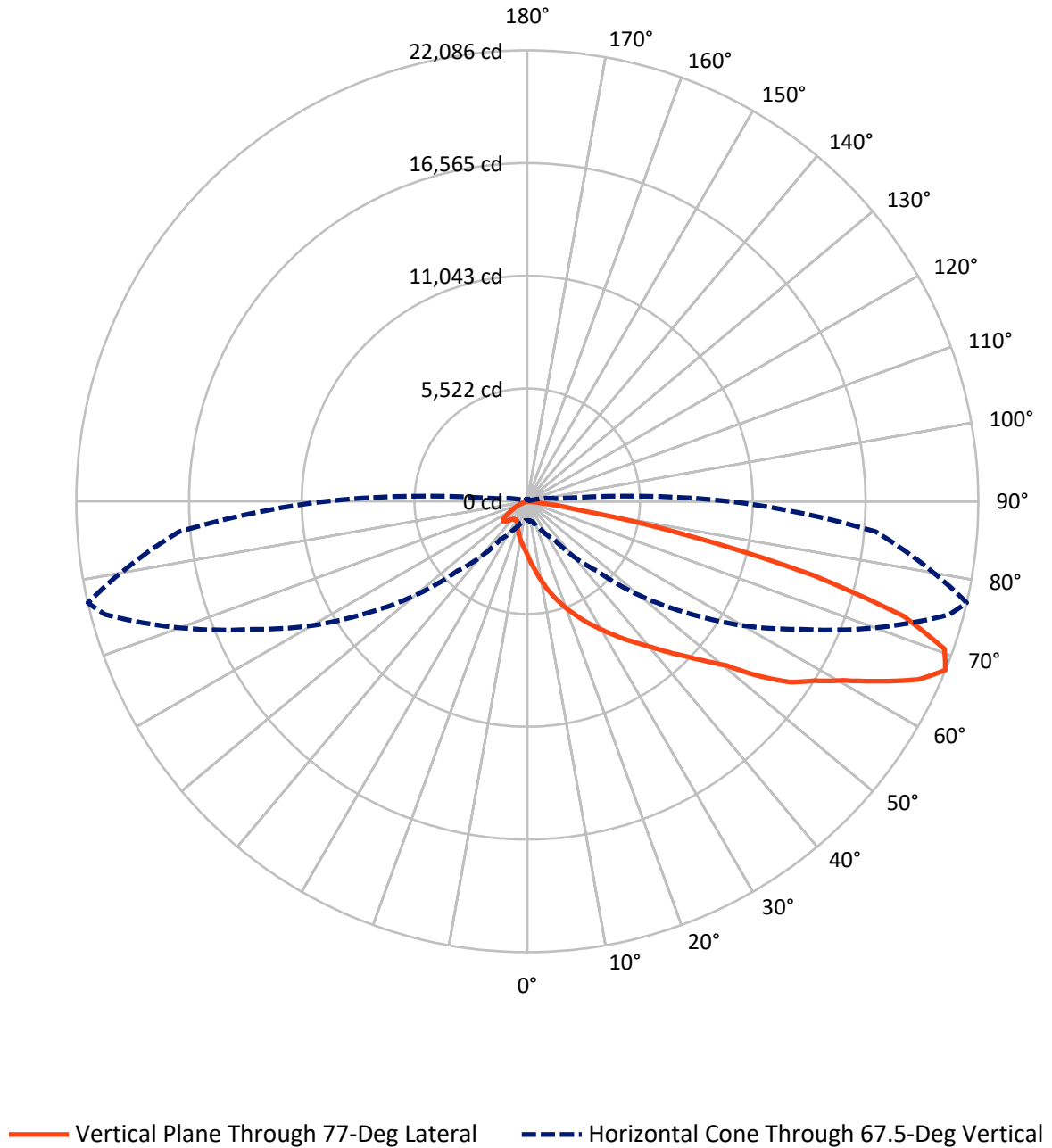
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1694.8	0.0	1694.8
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	21342.2	0.0	21342.2
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	23037.0	0.0	23037.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.1	1.2
10°-20°	949.5	4.1
20°-30°	1832.3	8.0
30°-40°	3180.9	13.8
40°-50°	4618.5	20.0
50°-60°	5303.8	23.0
60°-70°	4604.7	20.0
70°-80°	2168.9	9.4
80°-90°	107.3	0.5
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°	23037.0	100.0
0°-180°	23037.0	100.0

**Coefficient of Utilization**



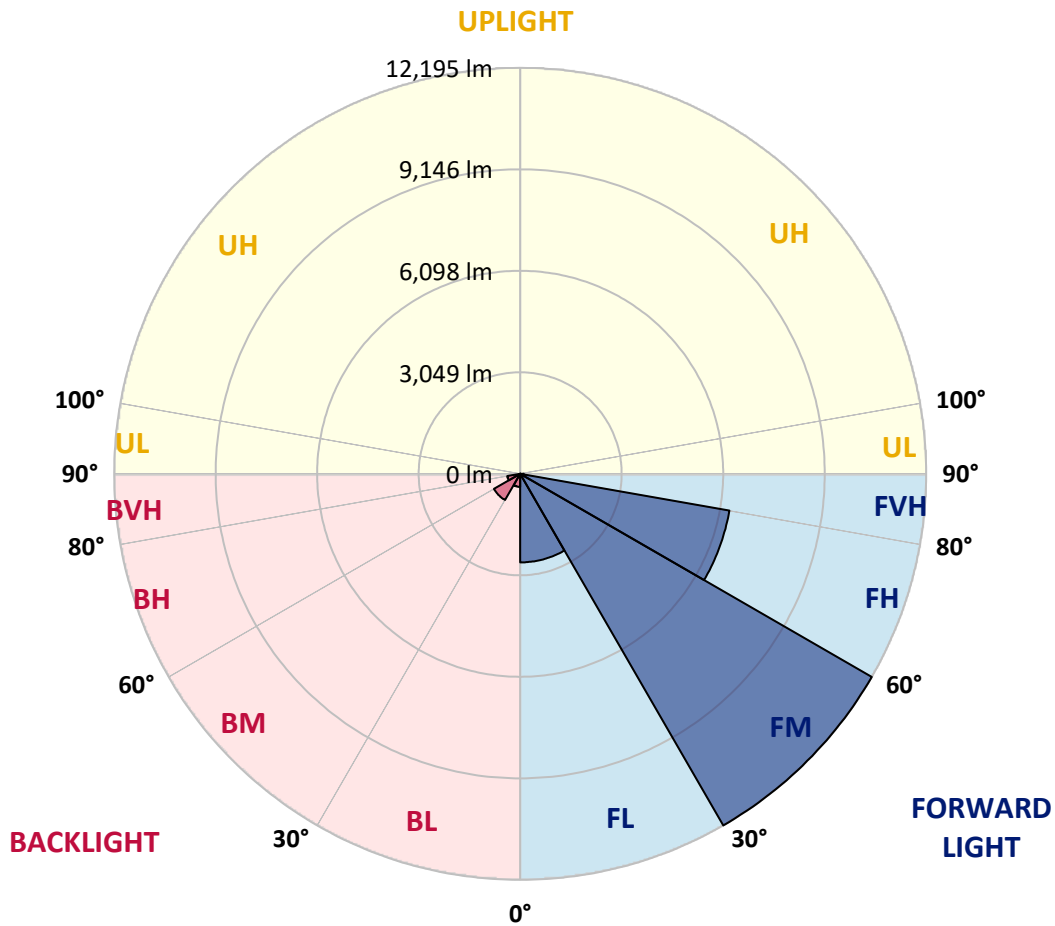
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2660.5	11.5			
FM (30°-60°)	12195.2	52.9			
FH (60°-80°)	6381.2	27.7			G3/7500
FVH (80°-90°)	105.3	0.5			G2/225
BL (0°-30°)	392.4	1.7	B1/500		
BM (30°-60°)	908.1	3.9	B1/1000		
BH (60°-80°)	392.4	1.7	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2656.5	2656.5	2656.5	2656.5	2656.5	2656.5	2656.5	2656.5	2656.5	2656.5
2.5°	3677.9	3700.8	3667.9	3604.9	3510.5	3449.0	3298.8	3157.2	2999.8	2949.8
5°	4483.3	4503.3	4466.1	4397.5	4271.6	4151.4	3954.0	3657.9	3350.3	3251.6
7.5°	5079.8	5091.3	5077.0	5014.0	4893.9	4758.0	4537.7	4187.2	3730.8	3622.1
10°	5509.0	5546.2	5541.9	5517.6	5437.5	5327.3	5092.7	4693.6	4157.1	4016.9
12.5°	5793.7	5835.2	5859.5	5913.8	5909.5	5839.4	5633.4	5211.4	4582.0	4417.5
15°	5876.6	5921.0	6014.0	6139.9	6251.4	6287.2	6142.7	5719.3	5049.8	4839.5
17.5°	5829.4	5898.1	6009.7	6208.5	6453.1	6614.8	6599.1	6210.0	5474.7	5234.3
20°	5933.9	5999.7	6086.9	6254.3	6539.0	6832.2	6949.5	6679.2	5896.7	5644.9
22.5°	6511.8	6500.4	6508.9	6536.1	6706.4	6996.7	7238.5	7105.5	6314.4	6056.9
25°	7427.3	7375.8	7288.6	7141.2	7098.3	7238.5	7490.3	7483.1	6755.0	6478.9
27.5°	8477.4	8468.8	8264.2	7909.4	7709.2	7654.8	7775.0	7850.8	7191.3	6896.6
30°	9483.0	9505.9	9229.8	8835.0	8467.3	8254.2	8145.5	8199.8	7634.8	7347.2
32.5°	10358.5	10382.8	10082.4	9620.4	9165.4	8907.9	8679.1	8544.6	8118.3	7805.0
35°	11098.1	11122.4	10777.7	10267.0	9782.0	9548.8	9289.9	8922.3	8604.7	8312.8
37.5°	11759.0	11751.9	11289.8	10774.8	10298.4	10113.9	9978.0	9387.2	9105.4	8823.5
40°	12149.5	12179.6	11784.8	11216.8	10754.8	10620.3	10611.7	9963.7	9683.3	9410.1
42.5°	12264.0	12316.9	12030.8	11564.5	11145.3	10999.4	11224.0	10587.4	10355.6	10089.6
45°	12058.0	12109.5	11979.3	11656.0	11411.4	11317.0	11750.4	11234.0	11073.8	10810.6
47.5°	11457.2	11521.5	11553.0	11484.3	11481.5	11577.3	12222.5	11914.9	11926.4	11657.4
50°	10294.1	10402.9	10691.8	10935.0	11311.2	11783.3	12681.7	12653.1	12887.7	12655.9
52.5°	8179.8	8334.3	9330.0	9995.2	10840.6	11744.7	13186.7	13837.6	14574.3	14235.3
55°	6573.3	6573.3	7383.0	8627.6	9922.2	11490.1	13407.0	14607.2	15723.0	15642.9
57.5°	5358.8	5423.2	5939.6	7039.7	8593.2	10883.5	13542.9	15090.7	16648.6	16589.9
60°	3307.4	3446.2	4421.8	5507.6	7081.2	9803.5	13457.0	15580.0	17771.5	17818.8
62.5°	1862.6	1914.1	2348.9	3962.6	5506.1	8351.5	12800.4	15853.2	19207.8	19408.1
65°	1286.1	1311.8	1479.2	2466.2	3816.7	6649.1	11517.2	15683.0	20646.9	21051.8
67.5°	934.1	947.0	1051.4	1506.4	2264.5	4820.9	9505.9	14824.6	21409.4	22086.0
70°	718.1	726.7	802.5	989.9	1337.6	2975.5	6903.8	13118.0	20857.2	21665.5
72.5°	583.7	592.2	650.9	732.4	886.9	1759.6	4184.3	10653.2	18419.6	19292.2
75°	492.1	503.5	556.5	609.4	695.2	1130.1	1962.7	7418.8	13851.9	14424.1
77.5°	273.2	251.8	452.0	505.0	586.5	715.3	918.4	4366.0	7757.8	7916.6
80°	170.2	176.0	359.1	406.3	450.6	360.5	420.6	1680.9	2689.4	2554.9
82.5°	10.0	22.9	276.1	293.3	309.0	154.5	158.8	570.8	648.0	595.1
85°	0.0	0.0	125.9	101.6	107.3	44.3	45.8	133.0	87.3	94.4
87.5°	0.0	0.0	0.0	2.9	0.0	4.3	8.6	11.4	4.3	5.7
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°
2656.5	0°	2656.5	2656.5	2656.5	2656.5	2656.5	2656.5	2656.5	2656.5	2656.5	2656.5
2792.4	2.5°	2692.3	2592.1	2389.0	2190.2	2028.5	1878.3	1771.0	1669.4	1617.9	1615.1
2972.7	5°	2773.8	2563.5	2157.2	1798.2	1509.2	1277.5	1127.3	1020.0	965.6	947.0
3194.4	7.5°	2888.3	2572.1	1954.1	1454.9	1114.4	915.5	829.7	795.4	783.9	771.1
3444.7	10°	3032.7	2592.1	1772.4	1171.6	878.3	778.2	743.9	729.6	721.0	712.4
3726.5	12.5°	3194.4	2610.7	1592.2	972.8	772.5	721.0	696.7	679.5	668.1	658.0
4015.5	15°	3351.7	2622.2	1404.8	834.0	718.1	676.6	650.9	632.3	616.6	605.1
4298.8	17.5°	3507.7	2637.9	1228.8	751.0	673.8	632.3	606.5	583.7	570.8	557.9
4596.3	20°	3680.8	2635.0	1062.9	692.4	629.4	588.0	560.8	539.3	526.4	512.1
4911.0	22.5°	3841.0	2620.7	917.0	642.3	583.7	543.6	513.6	492.1	479.2	467.8
5232.9	25°	4025.5	2609.3	795.4	596.5	540.7	500.7	467.8	447.8	433.5	423.4
5556.2	27.5°	4202.9	2592.1	706.7	555.0	499.3	460.6	429.2	406.3	393.4	386.2
5889.5	30°	4377.4	2587.8	673.8	515.0	462.1	423.4	392.0	370.5	360.5	357.6
6255.7	32.5°	4587.7	2599.3	688.1	500.7	427.7	389.1	359.1	343.3	333.3	333.3
6663.4	35°	4812.3	2596.4	709.5	513.6	404.8	354.8	331.9	321.9	311.9	311.9
7115.5	37.5°	5094.1	2600.7	726.7	535.0	396.3	326.2	313.3	300.4	294.7	294.7
7610.4	40°	5514.7	2742.3	718.1	553.6	393.4	306.1	280.4	276.1	271.8	271.8
8169.8	42.5°	6029.7	3049.9	729.6	555.0	392.0	291.8	257.5	266.1	256.1	254.6
8800.7	45°	6593.3	3386.1	802.5	525.0	390.5	284.7	246.1	256.1	240.3	240.3
9531.7	47.5°	7152.7	3719.4	876.9	482.1	386.2	283.2	236.0	230.3	226.0	227.5
10484.4	50°	7923.7	3991.2	905.5	423.4	376.2	280.4	217.4	218.9	216.0	218.9
11827.7	52.5°	8763.5	4048.4	871.2	357.6	347.6	271.8	204.6	210.3	208.9	211.7
12773.3	55°	9287.0	3986.9	719.6	297.6	303.3	237.5	191.7	203.1	203.1	203.1
13697.4	57.5°	9827.8	3725.1	510.7	241.8	251.8	194.6	180.2	196.0	194.6	193.1
14810.3	60°	10216.9	3301.7	336.2	198.8	200.3	160.2	167.4	184.5	183.1	176.0
15957.6	62.5°	10507.3	2833.9	216.0	168.8	153.1	144.5	153.1	167.4	161.7	145.9
16930.4	65°	10474.4	2185.9	165.9	144.5	125.9	125.9	133.0	145.9	128.7	103.0
17116.4	67.5°	9863.5	1479.2	137.3	121.6	105.9	104.4	110.2	121.6	110.2	87.3
16163.6	70°	8772.0	967.0	110.2	94.4	84.4	77.2	88.7	104.4	93.0	70.1
13760.3	72.5°	7119.8	589.4	83.0	68.7	61.5	50.1	70.1	85.8	74.4	51.5
9568.9	75°	4606.3	300.4	57.2	44.3	32.9	30.0	51.5	64.4	51.5	31.5
4245.8	77.5°	1762.4	125.9	31.5	20.0	17.2	14.3	28.6	38.6	21.5	7.2
822.6	80°	339.0	52.9	15.7	10.0	8.6	5.7	4.3	2.9	0.0	0.0
145.9	82.5°	58.7	17.2	5.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
28.6	85°	20.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	87.5°	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
2656.5
1612.2
944.2
768.2
709.5
655.2
603.7
556.5
510.7
466.4
422.0
386.2
356.2
333.3
311.9
294.7
271.8
253.2
240.3
227.5
218.9
211.7
203.1
193.1
176.0
143.1
100.1
84.4
67.2
48.6
27.2
5.7
0.0
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