

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: P953621

Luminaire Tested: **GALN-SB7A-840-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953621  
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-SB7A-840-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

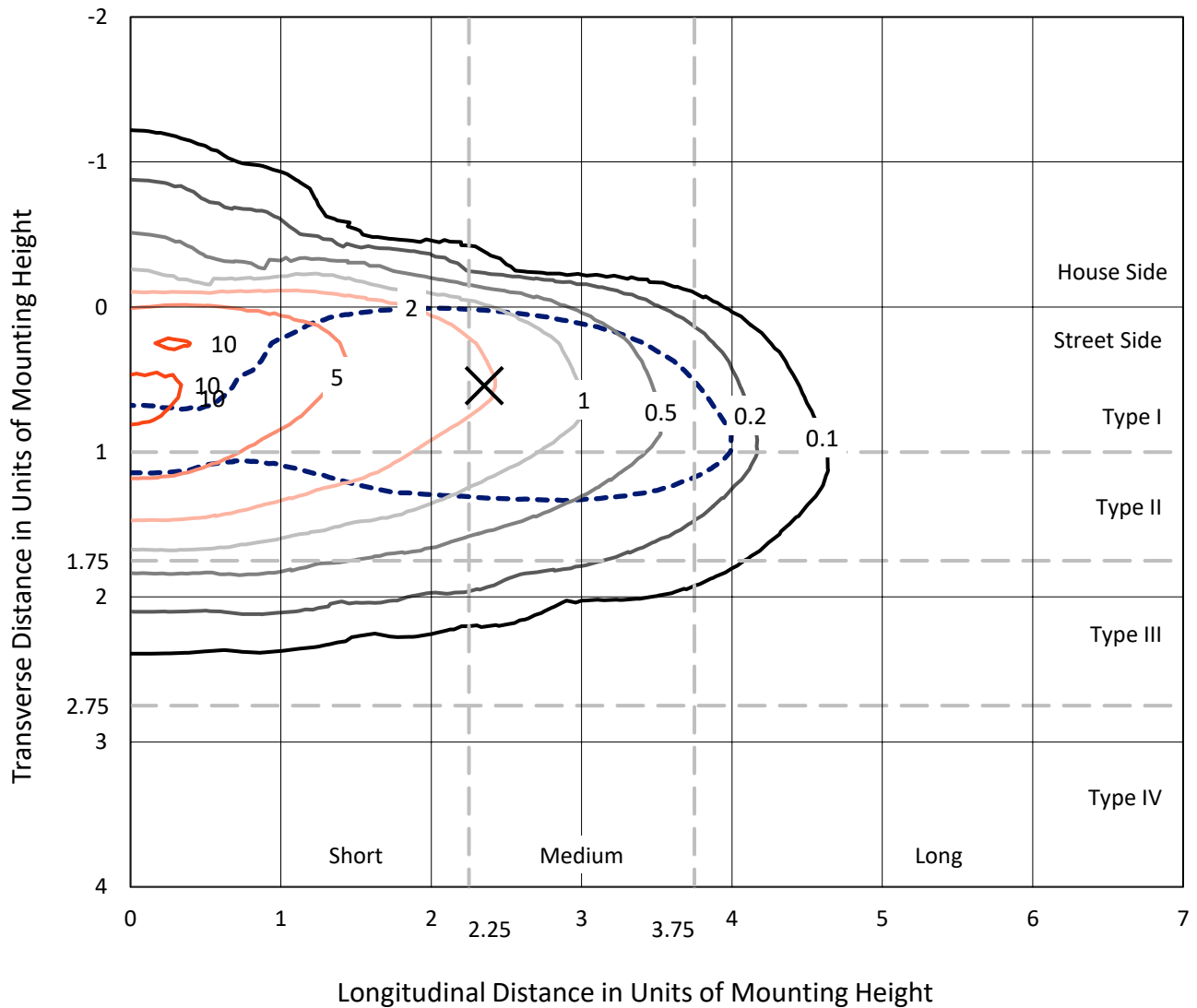
Lumens per Lamp: N/A  
Luminaire Lumens: 25836 lumens  
Efficiency: N/A  
Efficacy: 129.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

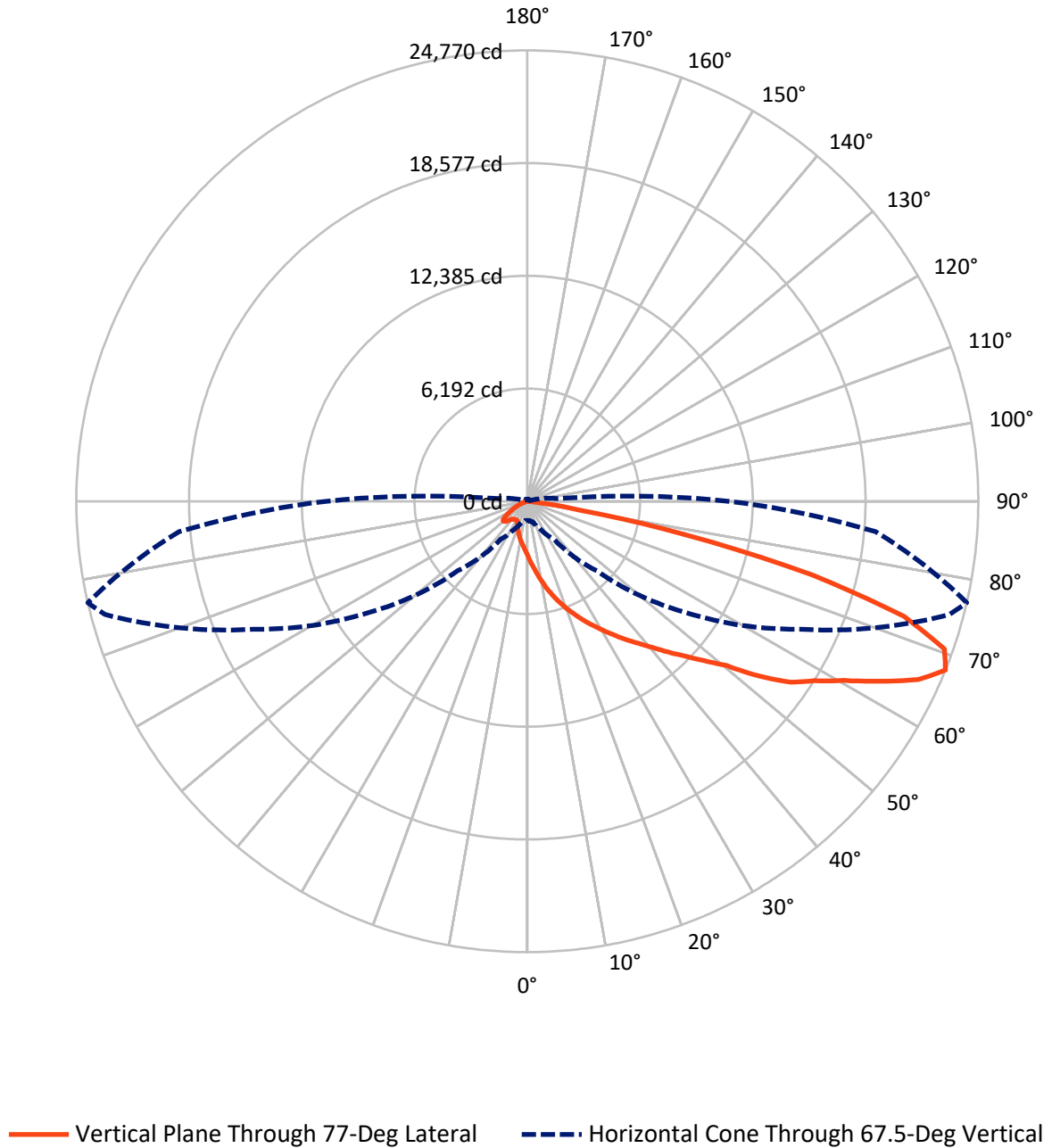
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	1900.8	0.0	1900.8
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	23935.2	0.0	23935.2
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	25836.0	0.0	25836.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.1	1.2
10°-20°	1064.9	4.1
20°-30°	2054.9	8.0
30°-40°	3567.4	13.8
40°-50°	5179.7	20.0
50°-60°	5948.2	23.0
60°-70°	5164.2	20.0
70°-80°	2432.4	9.4
80°-90°	120.3	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°	25836.0	100.0
0°-180°	25836.0	100.0

**Coefficient of Utilization**



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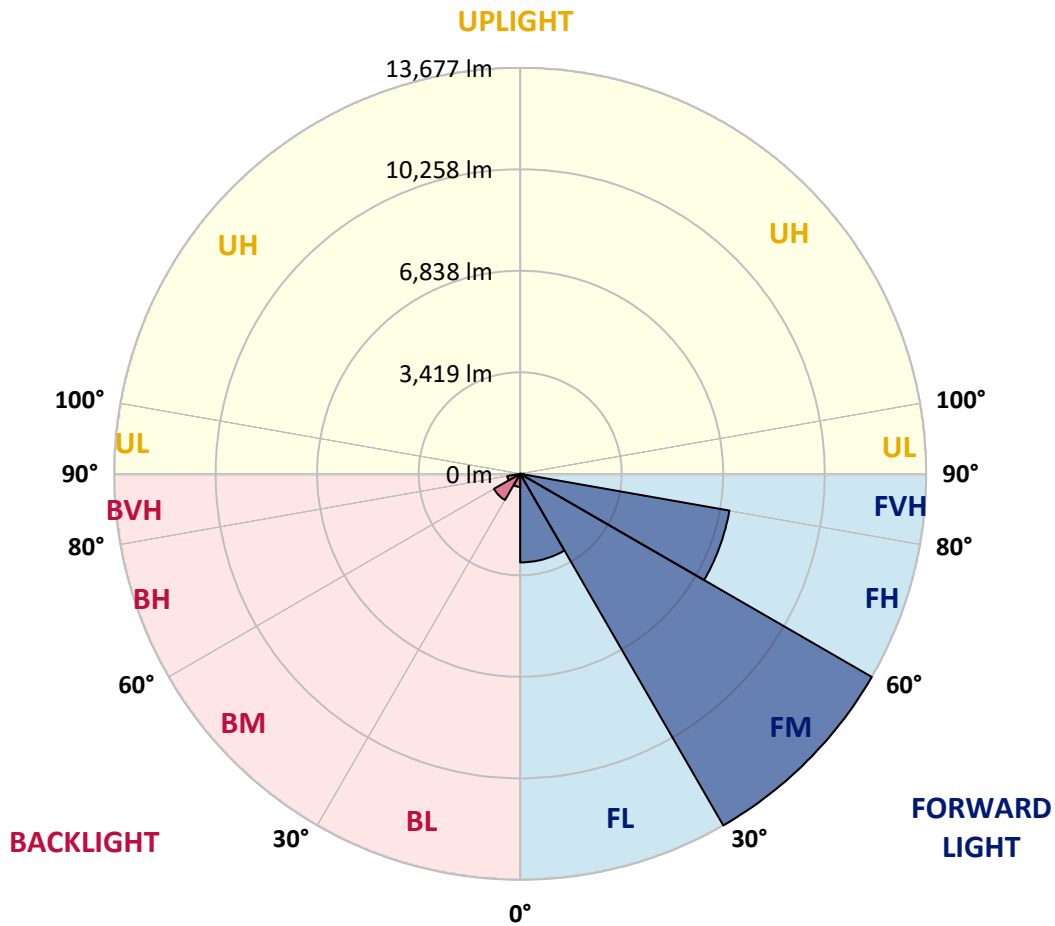
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2983.8	11.5			
FM (30°-60°)	13676.9	52.9			
FH (60°-80°)	7156.5	27.7			G3/7500
FVH (80°-90°)	118.1	0.5			G2/225
BL (0°-30°)	440.1	1.7	B1/500		
BM (30°-60°)	1018.5	3.9	B2/2500		
BH (60°-80°)	440.0	1.7	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2979.3	2979.3	2979.3	2979.3	2979.3	2979.3	2979.3	2979.3	2979.3	2979.3
2.5°	4124.8	4150.4	4113.5	4043.0	3937.1	3868.1	3699.6	3540.8	3364.3	3308.2
5°	5028.0	5050.5	5008.8	4931.8	4790.6	4655.8	4434.4	4102.3	3757.4	3646.7
7.5°	5697.0	5709.9	5693.8	5623.2	5488.5	5336.1	5089.0	4695.9	4184.1	4062.2
10°	6178.3	6220.0	6215.2	6188.0	6098.1	5974.6	5711.5	5263.9	4662.2	4505.0
12.5°	6497.6	6544.1	6571.4	6632.4	6627.6	6548.9	6317.9	5844.6	5138.7	4954.2
15°	6590.7	6640.4	6744.7	6885.9	7011.0	7051.1	6889.1	6414.2	5663.3	5427.5
17.5°	6537.7	6614.7	6739.9	6962.9	7237.2	7418.5	7400.8	6964.5	6139.8	5870.3
20°	6654.8	6728.6	6826.5	7014.2	7333.5	7662.4	7793.9	7490.7	6613.1	6330.7
22.5°	7303.0	7290.1	7299.8	7330.3	7521.2	7846.9	8118.0	7968.8	7081.6	6792.8
25°	8329.8	8272.0	8174.1	8008.9	7960.8	8118.0	8400.4	8392.3	7575.7	7266.1
27.5°	9507.4	9497.7	9268.3	8870.4	8645.8	8584.9	8719.6	8804.7	8065.0	7734.6
30°	10635.2	10660.9	10351.2	9908.4	9496.1	9257.1	9135.1	9196.1	8562.4	8239.9
32.5°	11617.1	11644.3	11307.4	10789.2	10279.0	9990.3	9733.6	9582.8	9104.7	8753.3
35°	12446.5	12473.8	12087.1	11514.4	10970.5	10709.0	10418.6	10006.3	9650.1	9322.9
37.5°	13187.7	13179.7	12661.5	12083.9	11549.7	11342.7	11190.3	10527.7	10211.7	9895.6
40°	13625.7	13659.4	13216.6	12579.7	12061.5	11910.7	11901.0	11174.3	10859.8	10553.4
42.5°	13754.1	13813.4	13492.6	12969.5	12499.5	12335.8	12587.7	11873.8	11613.9	11315.5
45°	13523.0	13580.8	13434.8	13072.2	12797.9	12692.0	13178.1	12598.9	12419.2	12124.0
47.5°	12849.2	12921.4	12956.7	12879.7	12876.5	12984.0	13707.5	13362.6	13375.4	13073.8
50°	11544.9	11666.8	11990.9	12263.6	12685.6	13215.0	14222.5	14190.4	14453.6	14193.6
52.5°	9173.7	9346.9	10463.5	11209.6	12157.7	13171.7	14788.9	15518.8	16345.1	15964.8
55°	7372.0	7372.0	8280.0	9675.8	11127.7	12886.1	15035.9	16382.0	17633.4	17543.5
57.5°	6009.9	6082.1	6661.2	7895.0	9637.3	12205.9	15188.3	16924.2	18671.4	18605.6
60°	3709.2	3864.9	4959.0	6176.7	7941.5	10994.6	15092.1	17472.9	19930.8	19983.7
62.5°	2088.9	2146.6	2634.3	4444.0	6175.1	9366.2	14355.7	17779.4	21541.6	21766.2
65°	1442.3	1471.2	1658.9	2765.9	4280.4	7457.0	12916.6	17588.4	23155.5	23609.6
67.5°	1047.6	1062.1	1179.2	1689.4	2539.7	5406.6	10660.9	16625.8	24010.6	24769.5
70°	805.4	815.0	900.0	1110.2	1500.1	3337.0	7742.6	14711.9	23391.4	24297.8
72.5°	654.6	664.2	730.0	821.4	994.7	1973.3	4692.7	11947.6	20657.6	21636.2
75°	551.9	564.7	624.1	683.5	779.7	1267.4	2201.2	8320.1	15534.9	16176.6
77.5°	306.4	282.4	507.0	566.3	657.8	802.2	1030.0	4896.5	8700.4	8878.5
80°	190.9	197.3	402.7	455.6	505.4	404.3	471.7	1885.1	3016.2	2865.4
82.5°	11.2	25.7	309.6	328.9	346.5	173.3	178.1	640.1	726.8	667.4
85°	0.0	0.0	141.2	113.9	120.3	49.7	51.3	149.2	97.9	105.9
87.5°	0.0	0.0	0.0	3.2	0.0	4.8	9.6	12.8	4.8	6.4
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°
2979.3	0°	2979.3	2979.3	2979.3	2979.3	2979.3	2979.3	2979.3	2979.3	2979.3	2979.3
3131.7	2.5°	3019.4	2907.1	2679.3	2456.3	2275.0	2106.5	1986.2	1872.3	1814.5	1811.3
3333.8	5°	3110.8	2875.0	2419.4	2016.7	1692.6	1432.7	1264.2	1143.9	1082.9	1062.1
3582.5	7.5°	3239.2	2884.6	2191.5	1631.6	1249.8	1026.8	930.5	892.0	879.2	864.7
3863.3	10°	3401.2	2907.1	1987.8	1314.0	985.1	872.8	834.3	818.2	808.6	799.0
4179.3	12.5°	3582.5	2927.9	1785.6	1091.0	866.3	808.6	781.3	762.1	749.2	738.0
4503.4	15°	3759.0	2940.8	1575.5	935.3	805.4	758.9	730.0	709.1	691.5	678.6
4821.1	17.5°	3933.9	2958.4	1378.1	842.3	755.6	709.1	680.2	654.6	640.1	625.7
5154.8	20°	4128.0	2955.2	1192.0	776.5	705.9	659.4	628.9	604.8	590.4	574.4
5507.7	22.5°	4307.7	2939.2	1028.4	720.4	654.6	609.7	576.0	551.9	537.5	524.6
5868.7	25°	4514.6	2926.3	892.0	669.0	606.4	561.5	524.6	502.2	486.1	474.9
6231.3	27.5°	4713.6	2907.1	792.5	622.5	559.9	516.6	481.3	455.6	441.2	433.2
6605.1	30°	4909.3	2902.3	755.6	577.6	518.2	474.9	439.6	415.5	404.3	401.1
7015.8	32.5°	5145.1	2915.1	771.7	561.5	479.7	436.4	402.7	385.0	373.8	373.8
7473.0	35°	5397.0	2911.9	795.8	576.0	454.0	397.9	372.2	361.0	349.7	349.7
7980.0	37.5°	5713.1	2916.7	815.0	600.0	444.4	365.8	351.4	336.9	330.5	330.5
8535.1	40°	6184.8	3075.5	805.4	620.9	441.2	343.3	314.5	309.6	304.8	304.8
9162.4	42.5°	6762.3	3420.5	818.2	622.5	439.6	327.3	288.8	298.4	287.2	285.6
9869.9	45°	7394.4	3797.5	900.0	588.8	438.0	319.3	275.9	287.2	269.5	269.5
10689.8	47.5°	8021.7	4171.3	983.5	540.7	433.2	317.7	264.7	258.3	253.5	255.1
11758.3	50°	8886.5	4476.1	1015.6	474.9	421.9	314.5	243.9	245.5	242.3	245.5
13264.7	52.5°	9828.2	4540.3	977.0	401.1	389.9	304.8	229.4	235.8	234.2	237.4
14325.2	55°	10415.4	4471.3	807.0	333.7	340.1	266.3	215.0	227.8	227.8	227.8
15361.6	57.5°	11021.9	4177.7	572.8	271.1	282.4	218.2	202.1	219.8	218.2	216.6
16609.8	60°	11458.2	3702.8	377.0	223.0	224.6	179.7	187.7	207.0	205.4	197.3
17896.5	62.5°	11783.9	3178.2	242.3	189.3	171.7	162.0	171.7	187.7	181.3	163.6
18987.4	65°	11747.0	2451.4	186.1	162.0	141.2	141.2	149.2	163.6	144.4	115.5
19196.0	67.5°	11062.0	1658.9	154.0	136.4	118.7	117.1	123.5	136.4	123.5	97.9
18127.5	70°	9837.8	1084.5	123.5	105.9	94.7	86.6	99.5	117.1	104.3	78.6
15432.2	72.5°	7984.8	661.0	93.1	77.0	69.0	56.2	78.6	96.3	83.4	57.8
10731.5	75°	5166.0	336.9	64.2	49.7	36.9	33.7	57.8	72.2	57.8	35.3
4761.7	77.5°	1976.6	141.2	35.3	22.5	19.3	16.0	32.1	43.3	24.1	8.0
922.5	80°	380.2	59.4	17.6	11.2	9.6	6.4	4.8	3.2	0.0	0.0
163.6	82.5°	65.8	19.3	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
32.1	85°	22.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.2	87.5°	8.0	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>
2979.3
1808.1
1058.9
861.5
795.8
734.8
677.0
624.1
572.8
523.0
473.3
433.2
399.5
373.8
349.7
330.5
304.8
284.0
269.5
255.1
245.5
237.4
227.8
216.6
197.3
160.4
112.3
94.7
75.4
54.5
30.5
6.4
0.0
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0.0

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