

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: P952046

Luminaire Tested: **GALN-SB6A-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952046
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-SB6A-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 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: 23031 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

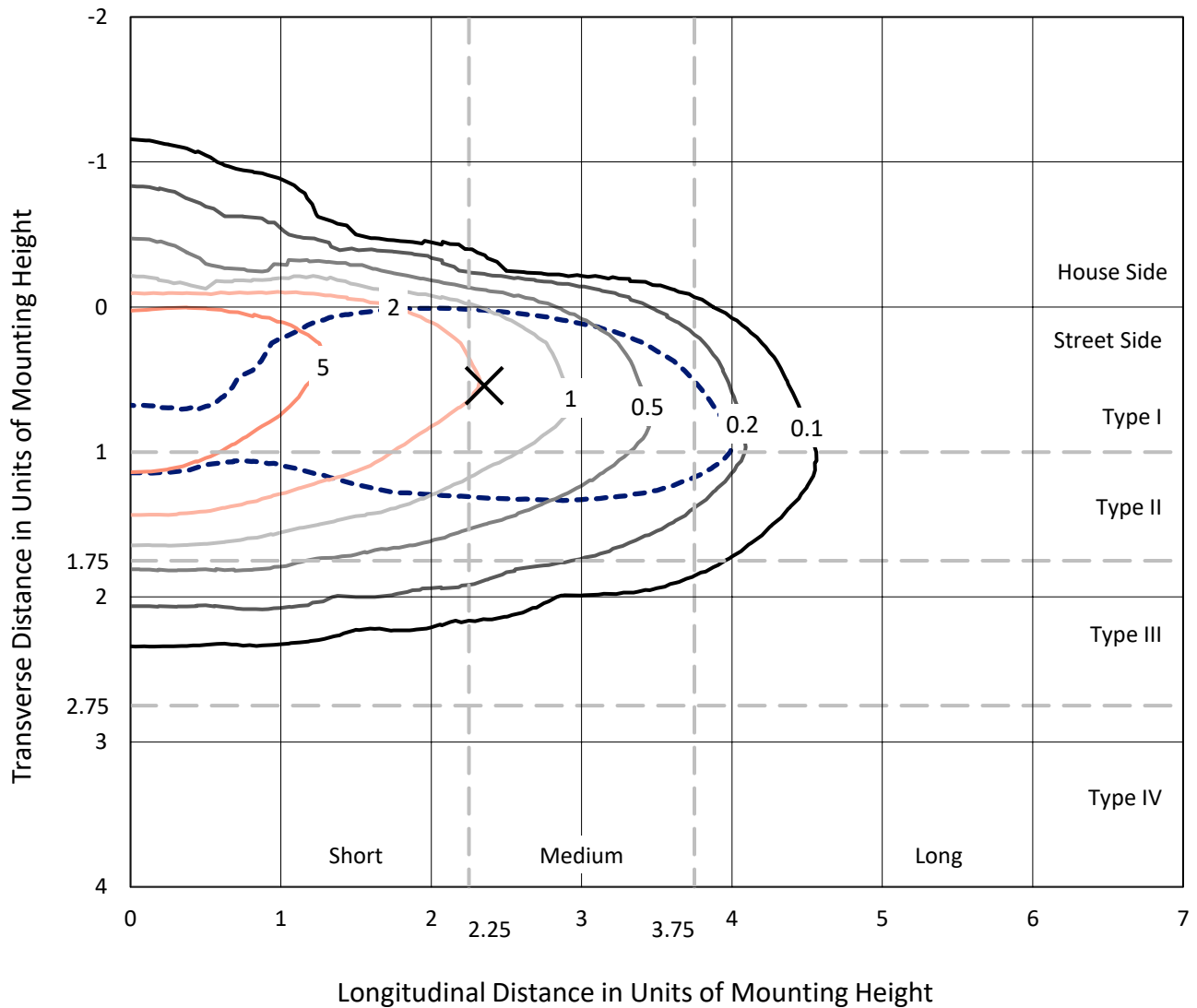
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

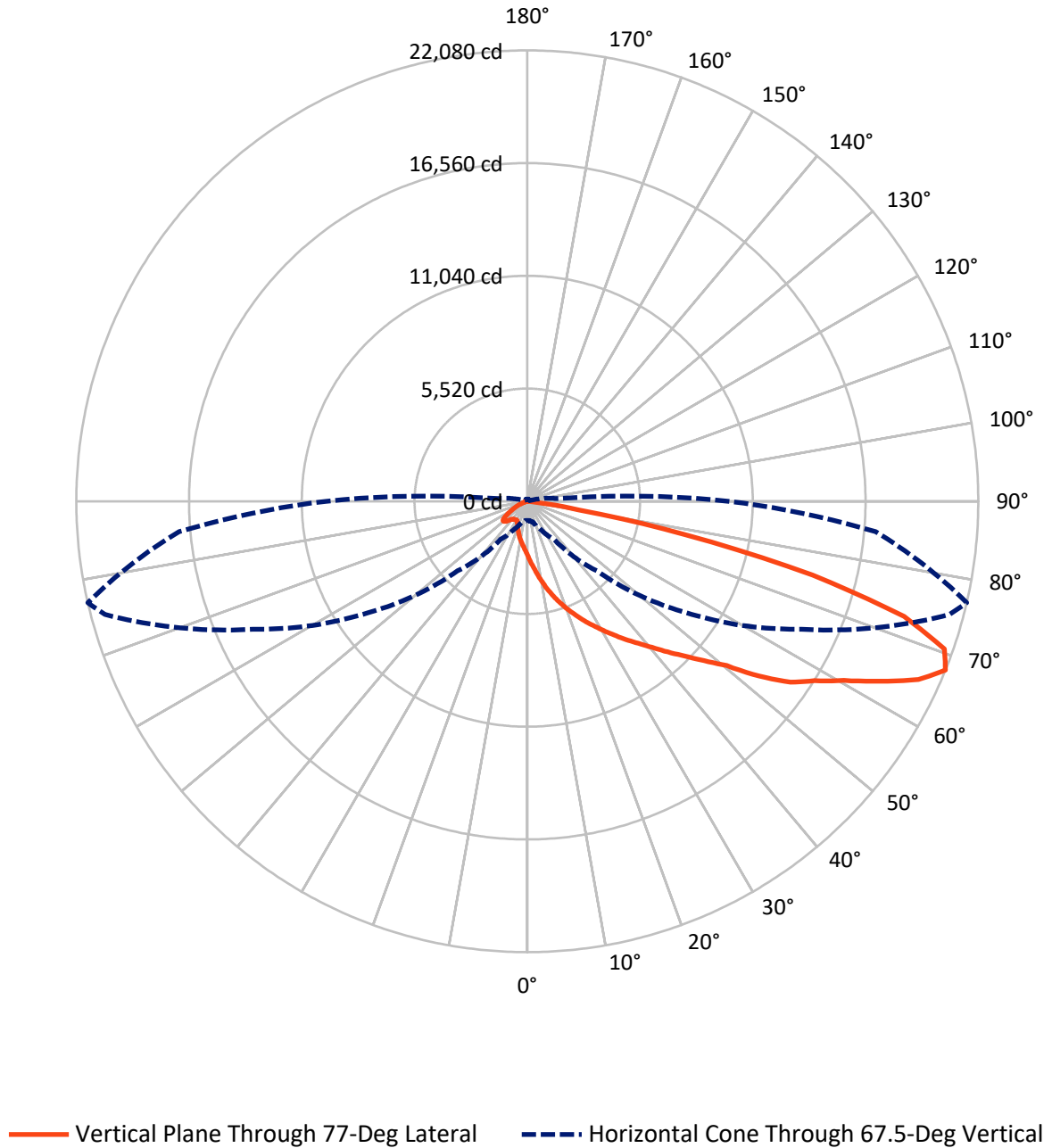
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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
House Side	Lumens	1694.4	0.0	1694.4
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	21336.6	0.0	21336.6
	% Fixture	92.6	0.0	92.6
Total	Lumens	23031.0	0.0	23031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.1	1.2
10°-20°	949.2	4.1
20°-30°	1831.8	8.0
30°-40°	3180.1	13.8
40°-50°	4617.3	20.0
50°-60°	5302.4	23.0
60°-70°	4603.5	20.0
70°-80°	2168.3	9.4
80°-90°	107.2	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°	23031.0	100.0
0°-180°	23031.0	100.0

Coefficient of Utilization



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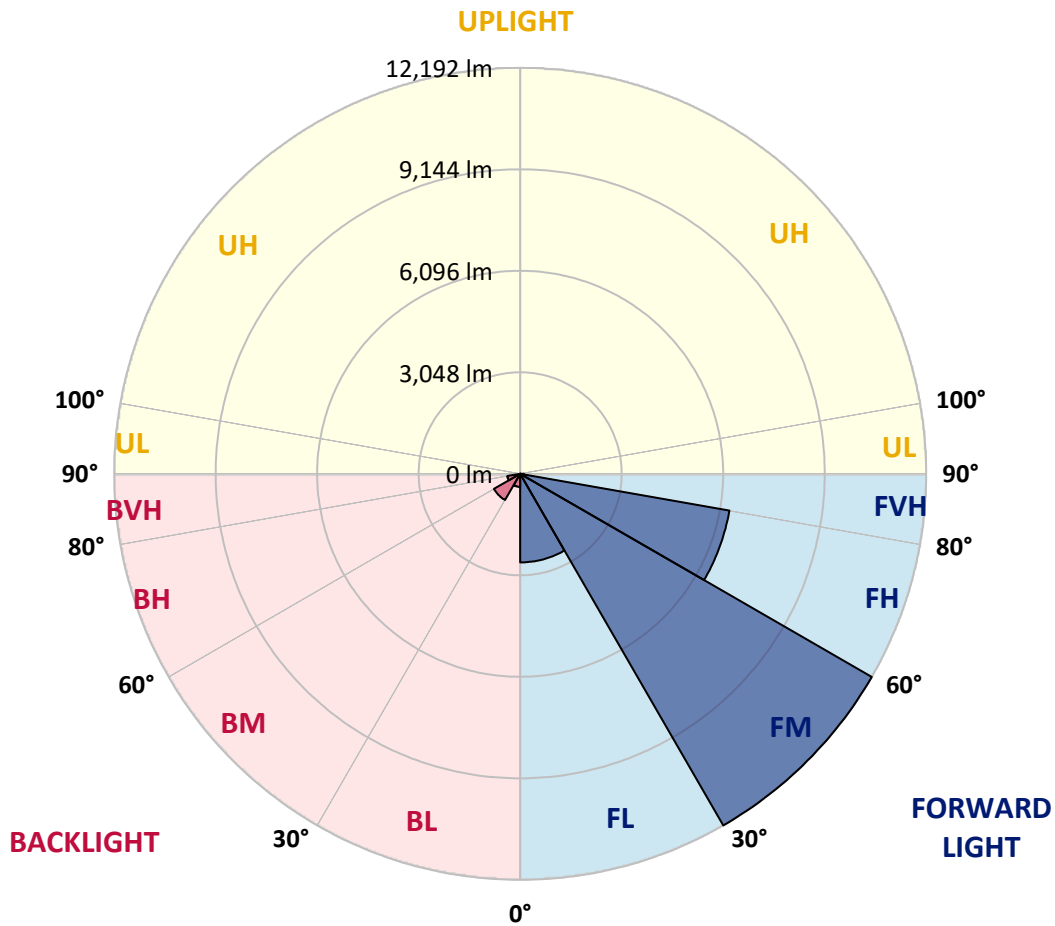
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2659.8	11.5			
FM (30°-60°)	12192.0	52.9			
FH (60°-80°)	6379.5	27.7			G3/7500
FVH (80°-90°)	105.3	0.5			G2/225
BL (0°-30°)	392.3	1.7	B1/500		
BM (30°-60°)	907.9	3.9	B1/1000		
BH (60°-80°)	392.3	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°	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8
2.5°	3676.9	3699.8	3666.9	3604.0	3509.6	3448.1	3298.0	3156.4	2999.1	2949.0
5°	4482.1	4502.2	4465.0	4396.3	4270.5	4150.3	3953.0	3656.9	3349.4	3250.8
7.5°	5078.5	5090.0	5075.6	5012.7	4892.6	4756.7	4536.5	4186.1	3729.9	3621.2
10°	5507.6	5544.7	5540.5	5516.1	5436.0	5325.9	5091.4	4692.4	4156.1	4015.9
12.5°	5792.2	5833.6	5857.9	5912.3	5908.0	5837.9	5632.0	5210.1	4580.8	4416.3
15°	5875.1	5919.4	6012.4	6138.3	6249.8	6285.6	6141.1	5717.8	5048.5	4838.2
17.5°	5827.9	5896.6	6008.1	6206.9	6451.5	6613.1	6597.3	6208.3	5473.2	5233.0
20°	5932.3	5998.1	6085.3	6252.7	6537.3	6830.5	6947.7	6677.4	5895.1	5643.4
22.5°	6510.1	6498.7	6507.2	6534.4	6704.6	6994.9	7236.6	7103.6	6312.7	6055.3
25°	7425.4	7373.9	7286.7	7139.4	7096.5	7236.6	7488.3	7481.2	6753.2	6477.2
27.5°	8475.1	8466.6	8262.1	7907.4	7707.1	7652.8	7772.9	7848.7	7189.4	6894.8
30°	9480.6	9503.4	9227.4	8832.7	8465.1	8252.0	8143.3	8197.7	7632.8	7345.3
32.5°	10355.8	10380.1	10079.8	9617.8	9163.1	8905.6	8676.8	8542.4	8116.2	7803.0
35°	11095.2	11119.5	10774.8	10264.3	9779.5	9546.3	9287.5	8919.9	8602.4	8310.7
37.5°	11755.9	11748.8	11286.8	10772.0	10295.7	10111.3	9975.4	9384.7	9103.0	8821.2
40°	12146.4	12176.4	11781.7	11213.9	10752.0	10617.5	10608.9	9961.1	9680.8	9407.6
42.5°	12260.8	12313.7	12027.7	11561.4	11142.4	10996.5	11221.1	10584.6	10353.0	10086.9
45°	12054.8	12106.3	11976.2	11653.0	11408.4	11314.0	11747.4	11231.1	11070.9	10807.7
47.5°	11454.2	11518.5	11550.0	11481.3	11478.5	11574.3	12219.3	11911.8	11923.3	11654.4
50°	10291.5	10400.1	10689.0	10932.2	11308.3	11780.3	12678.4	12649.8	12884.3	12652.7
52.5°	8177.7	8332.1	9327.5	9992.5	10837.8	11741.6	13183.2	13834.0	14570.5	14231.6
55°	6571.6	6571.6	7381.1	8625.3	9919.6	11487.1	13403.5	14603.4	15718.9	15638.8
57.5°	5357.4	5421.7	5938.0	7037.8	8591.0	10880.7	13539.4	15086.8	16644.2	16585.6
60°	3306.5	3445.3	4420.6	5506.1	7079.3	9800.9	13453.5	15575.9	17766.9	17814.1
62.5°	1862.1	1913.6	2348.3	3961.6	5504.7	8349.3	12797.1	15849.1	19202.8	19403.0
65°	1285.7	1311.5	1478.8	2465.6	3815.7	6647.4	11514.2	15678.9	20641.5	21046.3
67.5°	933.9	946.8	1051.2	1506.0	2263.9	4819.6	9503.4	14820.8	21403.8	22080.3
70°	717.9	726.5	802.3	989.7	1337.2	2974.7	6902.0	13114.6	20851.8	21659.8
72.5°	583.5	592.1	650.7	732.2	886.7	1759.1	4183.2	10650.4	18414.8	19287.2
75°	492.0	503.4	556.3	609.2	695.1	1129.8	1962.2	7416.8	13848.3	14420.3
77.5°	273.2	251.7	451.9	504.8	586.4	715.1	918.2	4364.9	7755.8	7914.5
80°	170.2	175.9	359.0	406.2	450.5	360.4	420.5	1680.4	2688.7	2554.3
82.5°	10.0	22.9	276.0	293.2	308.9	154.5	158.7	570.6	647.9	594.9
85°	0.0	0.0	125.9	101.5	107.3	44.3	45.8	133.0	87.2	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°
2655.8	0°	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8
2791.7	2.5°	2691.6	2591.5	2388.4	2189.6	2028.0	1877.8	1770.5	1669.0	1617.5	1614.7
2971.9	5°	2773.1	2562.9	2156.7	1797.7	1508.8	1277.1	1127.0	1019.7	965.4	946.8
3193.6	7.5°	2887.5	2571.4	1953.6	1454.5	1114.1	915.3	829.5	795.2	783.7	770.9
3443.8	10°	3031.9	2591.5	1772.0	1171.3	878.1	778.0	743.7	729.4	720.8	712.2
3725.6	12.5°	3193.6	2610.0	1591.8	972.5	772.3	720.8	696.5	679.3	667.9	657.9
4014.5	15°	3350.9	2621.5	1404.4	833.8	717.9	676.5	650.7	632.1	616.4	605.0
4297.6	17.5°	3506.8	2637.2	1228.5	750.8	673.6	632.1	606.4	583.5	570.6	557.8
4595.1	20°	3679.8	2634.4	1062.6	692.2	629.3	587.8	560.6	539.2	526.3	512.0
4909.7	22.5°	3840.0	2620.1	916.7	642.1	583.5	543.5	513.4	492.0	479.1	467.7
5231.5	25°	4024.5	2608.6	795.2	596.4	540.6	500.6	467.7	447.6	433.3	423.3
5554.8	27.5°	4201.8	2591.5	706.5	554.9	499.1	460.5	429.0	406.2	393.3	386.1
5888.0	30°	4376.3	2587.2	673.6	514.9	461.9	423.3	391.9	370.4	360.4	357.5
6254.1	32.5°	4586.5	2598.6	687.9	500.6	427.6	389.0	359.0	343.2	333.2	333.2
6661.7	35°	4811.1	2595.7	709.4	513.4	404.7	354.7	331.8	321.8	311.8	311.8
7113.6	37.5°	5092.8	2600.0	726.5	534.9	396.2	326.1	313.2	300.3	294.6	294.6
7608.5	40°	5513.3	2741.6	717.9	553.5	393.3	306.1	280.3	276.0	271.7	271.7
8167.7	42.5°	6028.1	3049.1	729.4	554.9	391.9	291.8	257.4	266.0	256.0	254.6
8798.4	45°	6591.6	3385.2	802.3	524.9	390.4	284.6	246.0	256.0	240.3	240.3
9529.2	47.5°	7150.8	3718.4	876.7	482.0	386.1	283.2	236.0	230.3	226.0	227.4
10481.7	50°	7921.7	3990.2	905.3	423.3	376.1	280.3	217.4	218.8	216.0	218.8
11824.6	52.5°	8761.2	4047.4	871.0	357.5	347.5	271.7	204.5	210.2	208.8	211.7
12769.9	55°	9284.6	3985.9	719.4	297.5	303.2	237.4	191.6	203.1	203.1	203.1
13693.8	57.5°	9825.2	3724.1	510.6	241.7	251.7	194.5	180.2	195.9	194.5	193.1
14806.5	60°	10214.2	3300.8	336.1	198.8	200.2	160.2	167.3	184.5	183.1	175.9
15953.5	62.5°	10504.5	2833.2	216.0	168.8	153.0	144.4	153.0	167.3	161.6	145.9
16926.0	65°	10471.7	2185.3	165.9	144.4	125.9	125.9	133.0	145.9	128.7	103.0
17111.9	67.5°	9861.0	1478.8	137.3	121.6	105.8	104.4	110.1	121.6	110.1	87.2
16159.4	70°	8769.8	966.8	110.1	94.4	84.4	77.2	88.7	104.4	93.0	70.1
13756.7	72.5°	7117.9	589.2	82.9	68.6	61.5	50.1	70.1	85.8	74.4	51.5
9566.4	75°	4605.1	300.3	57.2	44.3	32.9	30.0	51.5	64.4	51.5	31.5
4244.7	77.5°	1762.0	125.9	31.5	20.0	17.2	14.3	28.6	38.6	21.5	7.2
822.3	80°	338.9	52.9	15.7	10.0	8.6	5.7	4.3	2.9	0.0	0.0
145.9	82.5°	58.6	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>
2655.8
1611.8
943.9
768.0
709.4
655.0
603.5
556.3
510.6
466.2
421.9
386.1
356.1
333.2
311.8
294.6
271.7
253.1
240.3
227.4
218.8
211.7
203.1
193.1
175.9
143.0
100.1
84.4
67.2
48.6
27.2
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