

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: P954083

Luminaire Tested: **GALN-SB7B-940-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954083
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-SB7B-940-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 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: 24570 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

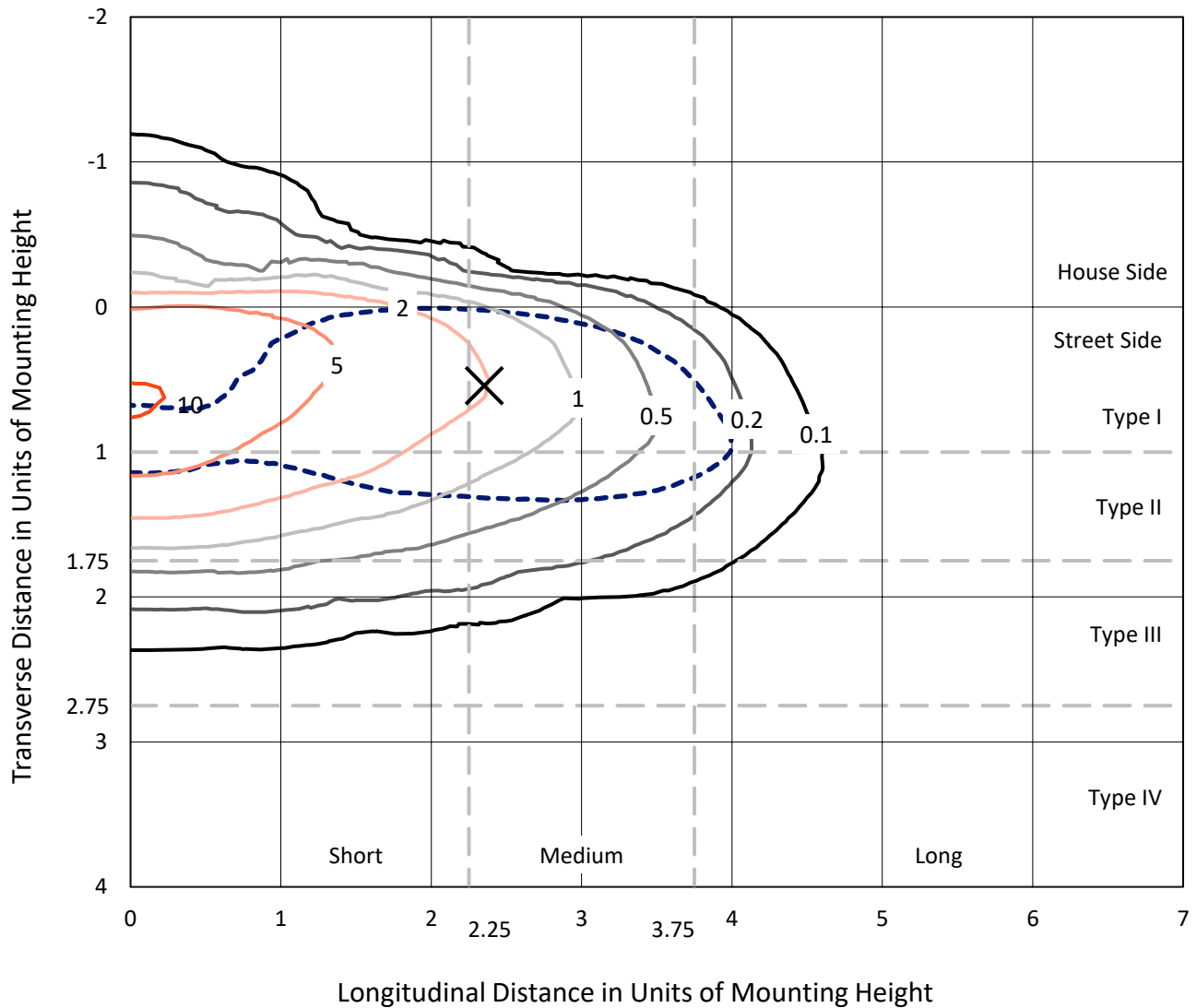
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

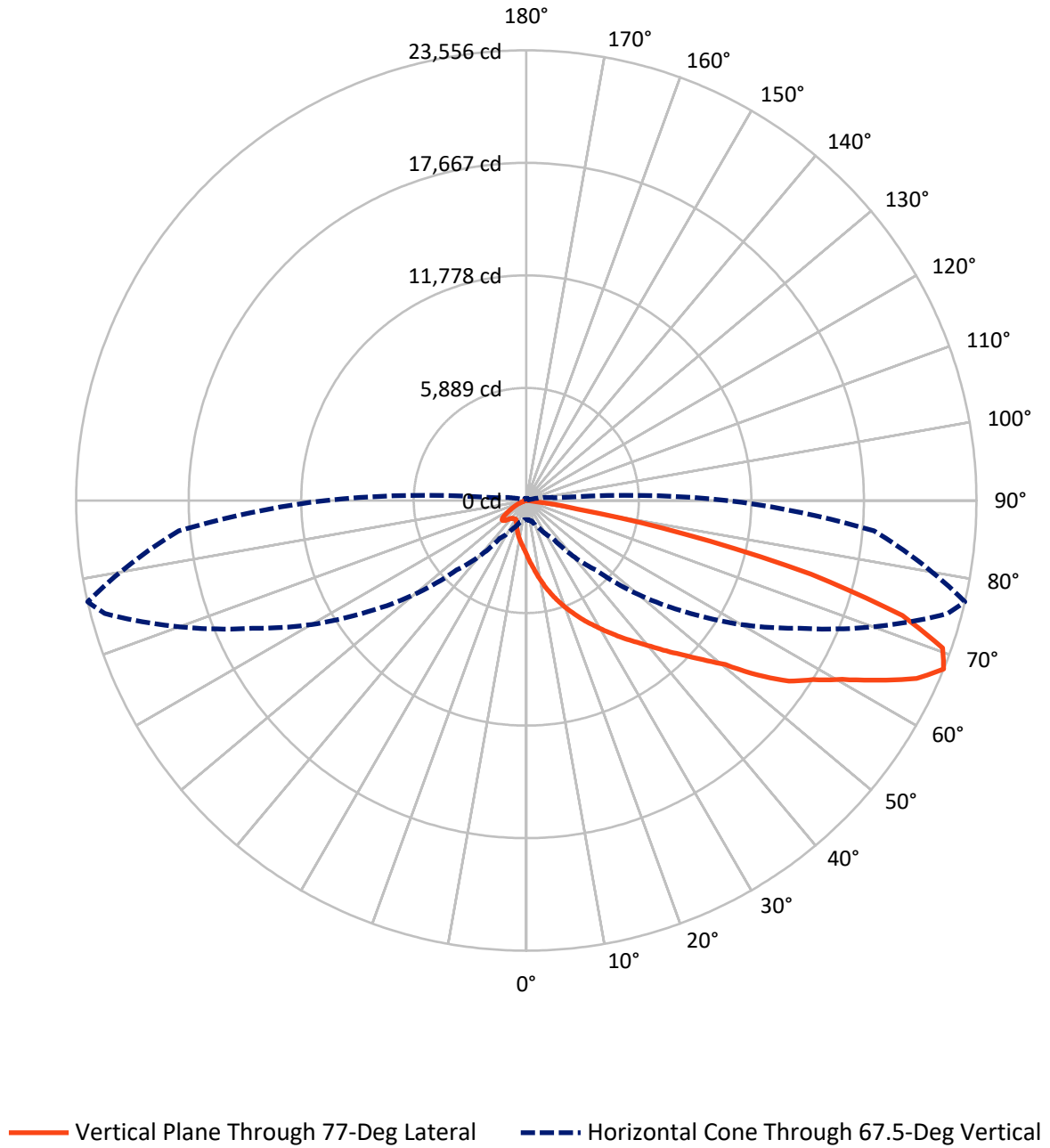
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	1807.6	0.0	1807.6
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	22762.4	0.0	22762.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	24570.0	0.0	24570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.2	1.2
10°-20°	1012.7	4.1
20°-30°	1954.2	8.0
30°-40°	3392.6	13.8
40°-50°	4925.9	20.0
50°-60°	5656.8	23.0
60°-70°	4911.1	20.0
70°-80°	2313.2	9.4
80°-90°	114.4	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°	24570.0	100.0
0°-180°	24570.0	100.0

Coefficient of Utilization



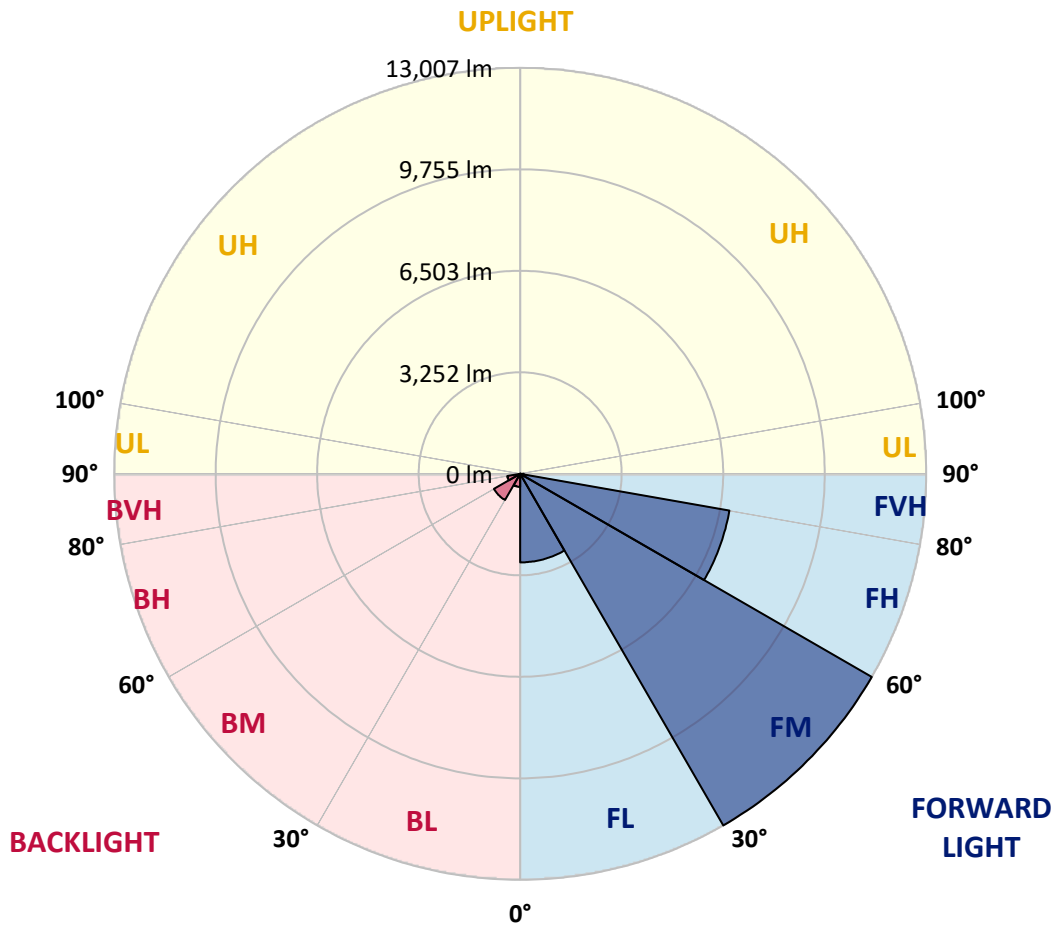
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2837.6	11.5			
FM (30°-60°)	13006.7	52.9			
FH (60°-80°)	6805.8	27.7			G3/7500
FVH (80°-90°)	112.3	0.5			G2/225
BL (0°-30°)	418.5	1.7	B1/500		
BM (30°-60°)	968.6	3.9	B1/1000		
BH (60°-80°)	418.5	1.7	B1/500		G1/500
BVH (80°-90°)	2.1	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°	2833.3	2833.3	2833.3	2833.3	2833.3	2833.3	2833.3	2833.3	2833.3	2833.3
2.5°	3922.7	3947.1	3912.0	3844.8	3744.1	3678.5	3518.3	3367.3	3199.5	3146.1
5°	4781.6	4803.0	4763.3	4690.1	4555.8	4427.7	4217.1	3901.3	3573.3	3468.0
7.5°	5417.9	5430.1	5414.8	5347.7	5219.5	5074.6	4839.6	4465.8	3979.1	3863.2
10°	5875.6	5915.3	5910.7	5884.7	5799.3	5681.8	5431.6	5005.9	4433.8	4284.3
12.5°	6179.2	6223.5	6249.4	6307.4	6302.8	6228.0	6008.3	5558.2	4886.9	4711.5
15°	6267.7	6315.0	6414.2	6548.4	6667.4	6705.6	6551.5	6099.9	5385.8	5161.5
17.5°	6217.4	6290.6	6409.6	6621.7	6882.6	7055.0	7038.2	6623.2	5839.0	5582.6
20°	6328.7	6398.9	6492.0	6670.5	6974.1	7286.9	7412.0	7123.6	6289.1	6020.5
22.5°	6945.1	6932.9	6942.1	6971.1	7152.6	7462.3	7720.2	7578.3	6734.6	6459.9
25°	7921.6	7866.7	7773.6	7616.4	7570.7	7720.2	7988.7	7981.1	7204.5	6910.0
27.5°	9041.5	9032.3	8814.1	8435.8	8222.2	8164.2	8292.3	8373.2	7669.8	7355.5
30°	10114.1	10138.5	9844.0	9422.9	9030.8	8803.5	8687.5	8745.5	8142.8	7836.2
32.5°	11047.8	11073.8	10753.4	10260.5	9775.4	9500.7	9256.6	9113.2	8658.5	8324.4
35°	11836.6	11862.6	11494.9	10950.2	10432.9	10184.3	9908.1	9516.0	9177.3	8866.0
37.5°	12541.5	12533.9	12041.1	11491.8	10983.7	10786.9	10642.0	10011.8	9711.3	9410.7
40°	12958.0	12990.1	12569.0	11963.3	11470.4	11327.0	11317.9	10626.7	10327.7	10036.3
42.5°	13080.1	13136.5	12831.4	12334.0	11887.0	11731.3	11970.9	11291.9	11044.8	10761.0
45°	12860.4	12915.3	12776.5	12431.7	12170.8	12070.1	12532.4	11981.6	11810.7	11529.9
47.5°	12219.6	12288.2	12321.8	12248.6	12245.5	12347.7	13035.8	12707.8	12720.0	12433.2
50°	10979.2	11095.1	11403.3	11662.7	12064.0	12567.4	13525.6	13495.1	13745.3	13498.1
52.5°	8724.1	8888.9	9950.8	10660.3	11562.0	12526.3	14064.2	14758.4	15544.1	15182.5
55°	7010.7	7010.7	7874.3	9201.7	10582.5	12254.7	14299.1	15579.2	16769.3	16683.9
57.5°	5715.4	5784.0	6334.8	7508.1	9165.1	11607.8	14444.1	16094.9	17756.5	17693.9
60°	3527.5	3675.5	4716.0	5874.1	7552.4	10455.8	14352.5	16616.7	18954.2	19004.5
62.5°	1986.5	2041.4	2505.3	4226.3	5872.5	8907.2	13652.2	16908.1	20486.0	20699.6
65°	1371.6	1399.1	1577.6	2630.4	4070.6	7091.6	12283.7	16726.6	22020.9	22452.7
67.5°	996.3	1010.0	1121.4	1606.6	2415.2	5141.7	10138.5	15811.1	22834.1	23555.8
70°	765.9	775.1	855.9	1055.8	1426.6	3173.5	7363.2	13991.0	22245.2	23107.2
72.5°	622.5	631.7	694.2	781.2	946.0	1876.6	4462.8	11362.1	19645.3	20576.0
75°	524.9	537.1	593.5	650.0	741.5	1205.3	2093.3	7912.4	14773.7	15383.9
77.5°	291.4	268.5	482.1	538.6	625.5	762.9	979.5	4656.5	8274.0	8443.4
80°	181.6	187.7	383.0	433.3	480.6	384.5	448.6	1792.7	2868.4	2725.0
82.5°	10.7	24.4	294.5	312.8	329.6	164.8	169.4	608.8	691.2	634.7
85°	0.0	0.0	134.3	108.3	114.4	47.3	48.8	141.9	93.1	100.7
87.5°	0.0	0.0	0.0	3.1	0.0	4.6	9.2	12.2	4.6	6.1
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°
2833.3	0°	2833.3	2833.3	2833.3	2833.3	2833.3	2833.3	2833.3	2833.3	2833.3	2833.3
2978.2	2.5°	2871.4	2764.6	2548.0	2335.9	2163.5	2003.3	1888.9	1780.5	1725.6	1722.6
3170.5	5°	2958.4	2734.1	2300.8	1917.8	1609.6	1362.5	1202.3	1087.8	1029.9	1010.0
3407.0	7.5°	3080.5	2743.3	2084.1	1551.7	1188.5	976.5	884.9	848.3	836.1	822.4
3674.0	10°	3234.5	2764.6	1890.4	1249.6	936.8	830.0	793.4	778.1	769.0	759.8
3974.5	12.5°	3407.0	2784.5	1698.1	1037.5	823.9	769.0	743.0	724.7	712.5	701.8
4282.7	15°	3574.8	2796.7	1498.3	889.5	765.9	721.7	694.2	674.4	657.6	645.4
4584.8	17.5°	3741.1	2813.4	1310.6	801.0	718.6	674.4	646.9	622.5	608.8	595.0
4902.2	20°	3925.7	2810.4	1133.6	738.5	671.3	627.1	598.1	575.2	561.5	546.2
5237.8	22.5°	4096.6	2795.1	978.0	685.1	622.5	579.8	547.7	524.9	511.1	498.9
5581.1	25°	4293.4	2782.9	848.3	636.2	576.7	534.0	498.9	477.6	462.3	451.6
5925.9	27.5°	4482.6	2764.6	753.7	592.0	532.5	491.3	457.7	433.3	419.6	411.9
6281.4	30°	4668.7	2760.0	718.6	549.3	492.8	451.6	418.1	395.2	384.5	381.4
6672.0	32.5°	4893.0	2772.3	733.9	534.0	456.2	415.0	383.0	366.2	355.5	355.5
7106.9	35°	5132.6	2769.2	756.8	547.7	431.8	378.4	354.0	343.3	332.6	332.6
7589.0	37.5°	5433.1	2773.8	775.1	570.6	422.6	347.9	334.1	320.4	314.3	314.3
8116.9	40°	5881.7	2924.8	765.9	590.5	419.6	326.5	299.0	294.5	289.9	289.9
8713.4	42.5°	6431.0	3252.9	778.1	592.0	418.1	311.2	274.6	283.8	273.1	271.6
9386.3	45°	7032.1	3611.4	855.9	559.9	416.5	303.6	262.4	273.1	256.3	256.3
10165.9	47.5°	7628.7	3966.9	935.3	514.2	411.9	302.1	251.7	245.6	241.1	242.6
11182.1	50°	8451.0	4256.8	965.8	451.6	401.3	299.0	231.9	233.4	230.4	233.4
12614.7	52.5°	9346.6	4317.8	929.2	381.4	370.8	289.9	218.2	224.3	222.8	225.8
13623.3	55°	9905.0	4252.2	767.4	317.4	323.5	253.3	204.4	216.7	216.7	216.7
14608.9	57.5°	10481.8	3973.0	544.7	257.8	268.5	207.5	192.2	209.0	207.5	206.0
15795.9	60°	10896.8	3521.4	358.5	212.1	213.6	170.9	178.5	196.8	195.3	187.7
17019.5	62.5°	11206.5	3022.5	230.4	180.0	163.3	154.1	163.3	178.5	172.4	155.6
18057.0	65°	11171.4	2331.3	177.0	154.1	134.3	134.3	141.9	155.6	137.3	109.9
18255.4	67.5°	10519.9	1577.6	146.5	129.7	112.9	111.4	117.5	129.7	117.5	93.1
17239.2	70°	9355.8	1031.4	117.5	100.7	90.0	82.4	94.6	111.4	99.2	74.8
14676.0	72.5°	7593.6	628.6	88.5	73.2	65.6	53.4	74.8	91.5	79.3	54.9
10205.6	75°	4912.9	320.4	61.0	47.3	35.1	32.0	54.9	68.7	54.9	33.6
4528.4	77.5°	1879.7	134.3	33.6	21.4	18.3	15.3	30.5	41.2	22.9	7.6
877.3	80°	361.6	56.5	16.8	10.7	9.2	6.1	4.6	3.1	0.0	0.0
155.6	82.5°	62.6	18.3	6.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
30.5	85°	21.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.7	87.5°	7.6	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>
2833.3
1719.5
1007.0
819.3
756.8
698.8
643.9
593.5
544.7
497.4
450.1
411.9
379.9
355.5
332.6
314.3
289.9
270.1
256.3
242.6
233.4
225.8
216.7
206.0
187.7
152.6
106.8
90.0
71.7
51.9
29.0
6.1
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