

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: P953726

Luminaire Tested: **GALN-SB7A-940-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953726
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-940-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 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: 19573 lumens
Efficiency: N/A
Efficacy: 98.3 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

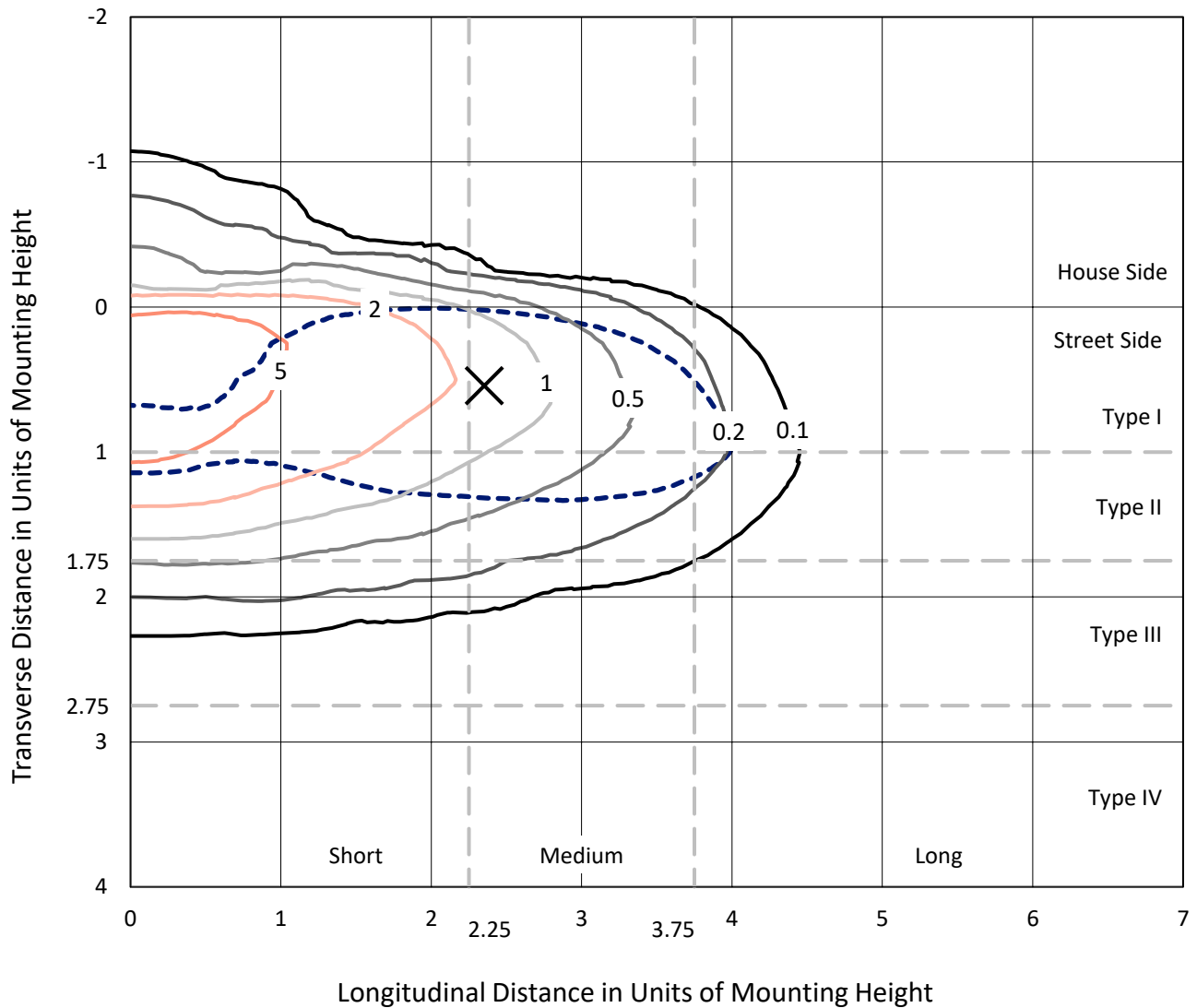
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

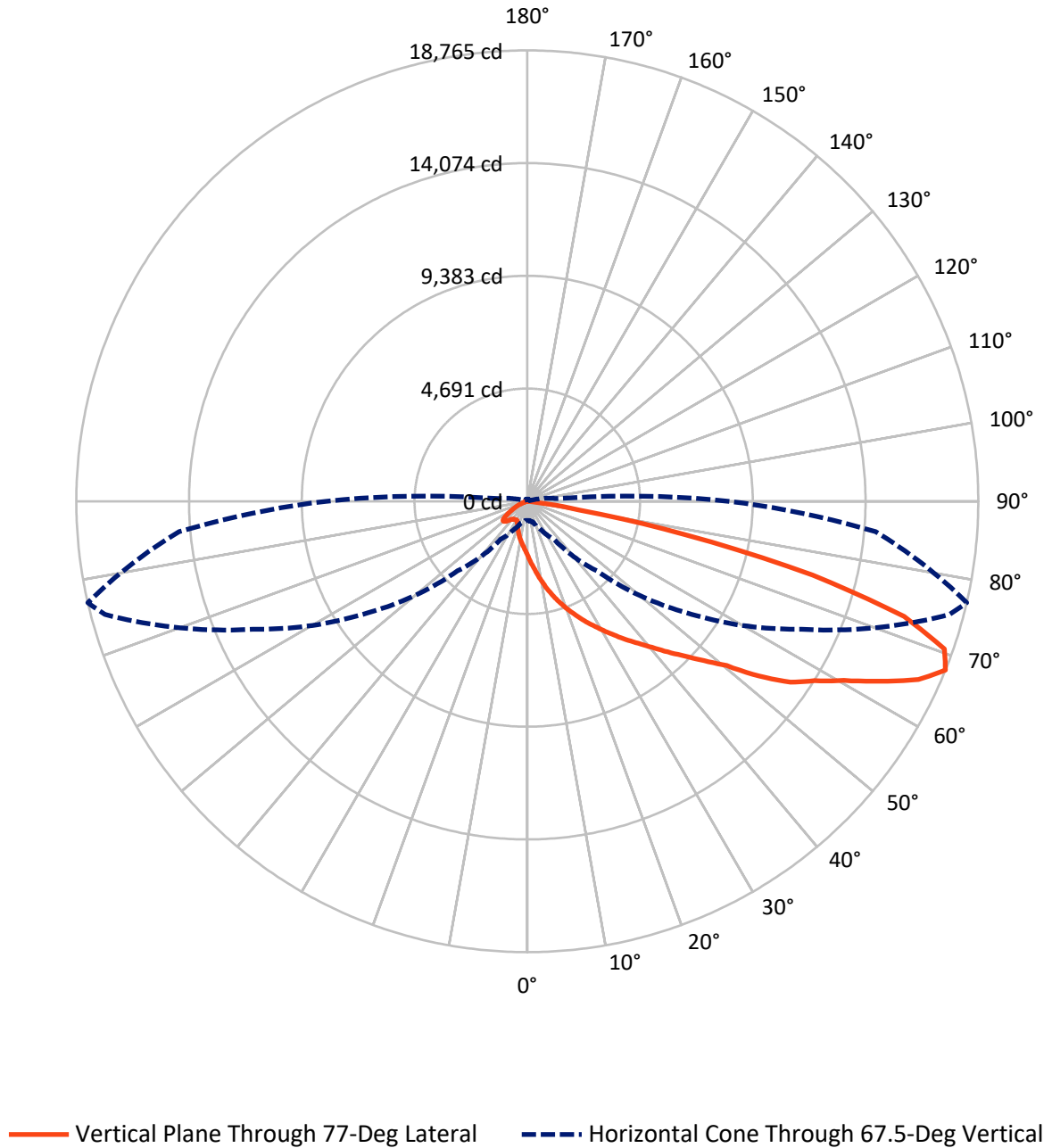
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	1440.0	0.0	1440.0
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	18133.0	0.0	18133.0
	% Fixture	92.6	0.0	92.6
Total	Lumens	19573.0	0.0	19573.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.4	1.2
10°-20°	806.7	4.1
20°-30°	1556.8	8.0
30°-40°	2702.6	13.8
40°-50°	3924.1	20.0
50°-60°	4506.3	23.0
60°-70°	3912.3	20.0
70°-80°	1842.7	9.4
80°-90°	91.1	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°	19573.0	100.0
0°-180°	19573.0	100.0

Coefficient of Utilization



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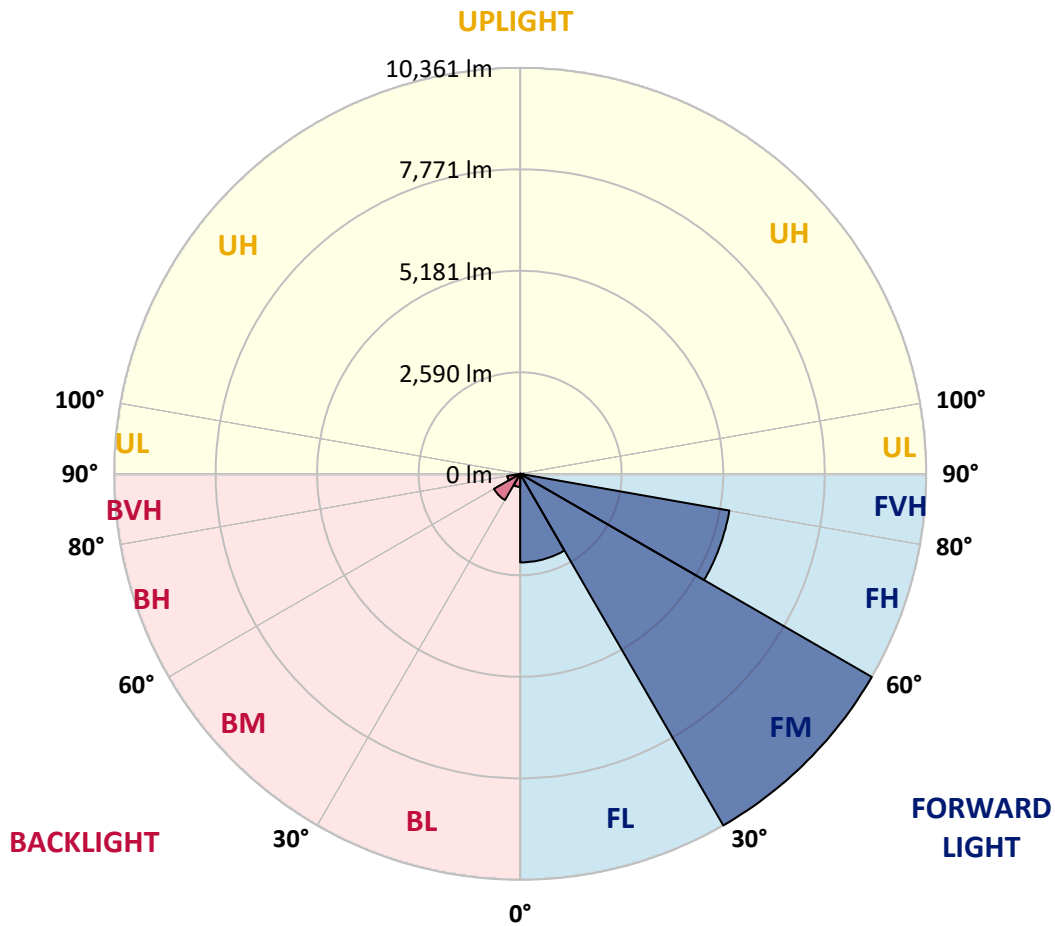
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2260.5	11.5			
FM (30°-60°)	10361.4	52.9			
FH (60°-80°)	5421.7	27.7			G3/7500
FVH (80°-90°)	89.5	0.5			G1/100
BL (0°-30°)	333.4	1.7	B1/500		
BM (30°-60°)	771.6	3.9	B1/1000		
BH (60°-80°)	333.4	1.7	B1/500		G1/500
BVH (80°-90°)	1.7	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°	2257.1	2257.1	2257.1	2257.1	2257.1	2257.1	2257.1	2257.1	2257.1	2257.1
2.5°	3124.9	3144.3	3116.4	3062.9	2982.7	2930.4	2802.8	2682.5	2548.8	2506.2
5°	3809.2	3826.2	3794.6	3736.2	3629.3	3527.2	3359.5	3107.9	2846.5	2762.7
7.5°	4316.0	4325.7	4313.6	4260.1	4158.0	4042.5	3855.3	3557.6	3169.8	3077.5
10°	4680.6	4712.2	4708.6	4687.9	4619.9	4526.3	4326.9	3987.8	3532.0	3412.9
12.5°	4922.5	4957.7	4978.4	5024.6	5020.9	4961.4	4786.4	4427.8	3893.0	3753.2
15°	4993.0	5030.7	5109.7	5216.6	5311.4	5341.8	5219.1	4859.3	4290.5	4111.8
17.5°	4952.9	5011.2	5106.0	5275.0	5482.8	5620.2	5606.8	5276.2	4651.5	4447.3
20°	5041.6	5097.5	5171.7	5313.9	5555.7	5804.9	5904.6	5674.8	5010.0	4796.1
22.5°	5532.6	5522.9	5530.2	5553.3	5697.9	5944.7	6150.1	6037.0	5364.9	5146.1
25°	6310.5	6266.8	6192.6	6067.4	6031.0	6150.1	6364.0	6357.9	5739.3	5504.7
27.5°	7202.6	7195.3	7021.5	6720.1	6550.0	6503.8	6605.9	6670.3	6110.0	5859.6
30°	8057.1	8076.5	7842.0	7506.5	7194.1	7013.0	6920.7	6966.8	6486.8	6242.5
32.5°	8800.9	8821.6	8566.4	8173.8	7787.3	7568.5	7374.0	7259.8	6897.6	6631.4
35°	9429.3	9450.0	9157.1	8723.1	8311.1	8113.0	7893.0	7580.6	7310.8	7062.9
37.5°	9990.8	9984.8	9592.2	9154.6	8749.9	8593.1	8477.6	7975.7	7736.2	7496.8
40°	10322.7	10348.2	10012.7	9530.2	9137.6	9023.4	9016.1	8465.5	8227.2	7995.1
42.5°	10419.9	10464.9	10221.8	9825.5	9469.4	9345.4	9536.3	8995.4	8798.5	8572.4
45°	10244.9	10288.6	10178.0	9903.3	9695.5	9615.3	9983.5	9544.8	9408.6	9185.0
47.5°	9734.4	9789.1	9815.8	9757.5	9755.0	9836.5	10384.6	10123.3	10133.0	9904.5
50°	8746.2	8838.6	9084.1	9290.8	9610.4	10011.5	10774.8	10750.5	10949.8	10752.9
52.5°	6949.8	7081.1	7927.0	8492.2	9210.5	9978.7	11203.8	11756.9	12382.8	12094.7
55°	5584.9	5584.9	6272.8	7330.3	8430.2	9762.3	11391.0	12410.8	13358.8	13290.7
57.5°	4553.0	4607.7	5046.5	5981.1	7301.1	9247.0	11506.5	12821.6	14145.2	14095.3
60°	2810.1	2928.0	3756.9	4679.4	6016.4	8329.3	11433.6	13237.3	15099.3	15139.4
62.5°	1582.5	1626.2	1995.7	3366.7	4678.2	7095.7	10875.7	13469.4	16319.6	16489.7
65°	1092.7	1114.5	1256.8	2095.4	3242.8	5649.3	9785.4	13324.8	17542.3	17886.3
67.5°	793.7	804.6	893.3	1279.8	1924.0	4096.0	8076.5	12595.5	18190.1	18765.0
70°	610.1	617.4	681.9	841.1	1136.4	2528.1	5865.7	11145.5	17721.0	18407.7
72.5°	495.9	503.2	553.0	622.3	753.6	1495.0	3555.1	9051.3	15649.9	16391.3
75°	418.1	427.8	472.8	517.8	590.7	960.2	1667.6	6303.2	11769.0	12255.2
77.5°	232.1	213.9	384.1	429.0	498.3	607.7	780.3	3709.5	6591.3	6726.2
80°	144.6	149.5	305.1	345.2	382.9	306.3	357.3	1428.1	2285.0	2170.8
82.5°	8.5	19.4	234.6	249.2	262.5	131.3	134.9	485.0	550.6	505.6
85°	0.0	0.0	107.0	86.3	91.2	37.7	38.9	113.0	74.1	80.2
87.5°	0.0	0.0	0.0	2.4	0.0	3.6	7.3	9.7	3.6	4.9
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°
2257.1	0°	2257.1	2257.1	2257.1	2257.1	2257.1	2257.1	2257.1	2257.1	2257.1	2257.1
2372.5	2.5°	2287.4	2202.4	2029.8	1860.8	1723.5	1595.9	1504.7	1418.4	1374.7	1372.2
2525.7	5°	2356.7	2178.1	1832.9	1527.8	1282.3	1085.4	957.8	866.6	820.4	804.6
2714.1	7.5°	2454.0	2185.3	1660.3	1236.1	946.8	777.9	704.9	675.8	666.1	655.1
2926.8	10°	2576.7	2202.4	1505.9	995.4	746.3	661.2	632.0	619.9	612.6	605.3
3166.2	12.5°	2714.1	2218.2	1352.8	826.5	656.3	612.6	591.9	577.3	567.6	559.1
3411.7	15°	2847.8	2227.9	1193.6	708.6	610.1	574.9	553.0	537.2	523.9	514.1
3652.4	17.5°	2980.2	2241.3	1044.1	638.1	572.5	537.2	515.3	495.9	485.0	474.0
3905.2	20°	3127.3	2238.8	903.1	588.3	534.8	499.5	476.4	458.2	447.3	435.1
4172.6	22.5°	3263.4	2226.7	779.1	545.7	495.9	461.9	436.3	418.1	407.2	397.4
4446.0	25°	3420.2	2216.9	675.8	506.8	459.4	425.4	397.4	380.4	368.3	359.8
4720.7	27.5°	3570.9	2202.4	600.4	471.6	424.2	391.4	364.6	345.2	334.2	328.2
5003.9	30°	3719.2	2198.7	572.5	437.6	392.6	359.8	333.0	314.8	306.3	303.9
5315.1	32.5°	3897.9	2208.4	584.6	425.4	363.4	330.6	305.1	291.7	283.2	283.2
5661.5	35°	4088.7	2206.0	602.9	436.3	344.0	301.4	282.0	273.5	265.0	265.0
6045.6	37.5°	4328.1	2209.7	617.4	454.6	336.7	277.1	266.2	255.2	250.4	250.4
6466.1	40°	4685.5	2330.0	610.1	470.4	334.2	260.1	238.2	234.6	230.9	230.9
6941.3	42.5°	5123.0	2591.3	619.9	471.6	333.0	247.9	218.8	226.1	217.6	216.3
7477.3	45°	5601.9	2876.9	681.9	446.1	331.8	241.9	209.1	217.6	204.2	204.2
8098.4	47.5°	6077.2	3160.1	745.1	409.6	328.2	240.7	200.5	195.7	192.0	193.3
8907.9	50°	6732.3	3391.1	769.4	359.8	319.7	238.2	184.7	186.0	183.5	186.0
10049.2	52.5°	7445.7	3439.7	740.2	303.9	295.3	230.9	173.8	178.7	177.5	179.9
10852.6	55°	7890.6	3387.4	611.4	252.8	257.7	201.8	162.9	172.6	172.6	172.6
11637.7	57.5°	8350.0	3165.0	433.9	205.4	213.9	165.3	153.1	166.5	165.3	164.1
12583.4	60°	8680.6	2805.2	285.6	168.9	170.2	136.1	142.2	156.8	155.6	149.5
13558.1	62.5°	8927.3	2407.8	183.5	143.4	130.1	122.8	130.1	142.2	137.3	124.0
14384.6	65°	8899.4	1857.2	141.0	122.8	107.0	107.0	113.0	124.0	109.4	87.5
14542.6	67.5°	8380.4	1256.8	116.7	103.3	89.9	88.7	93.6	103.3	93.6	74.1
13733.2	70°	7453.0	821.6	93.6	80.2	71.7	65.6	75.4	88.7	79.0	59.6
11691.2	72.5°	6049.2	500.8	70.5	58.3	52.3	42.5	59.6	72.9	63.2	43.8
8130.0	75°	3913.7	255.2	48.6	37.7	28.0	25.5	43.8	54.7	43.8	26.7
3607.4	77.5°	1497.4	107.0	26.7	17.0	14.6	12.2	24.3	32.8	18.2	6.1
698.9	80°	288.1	45.0	13.4	8.5	7.3	4.9	3.6	2.4	0.0	0.0
124.0	82.5°	49.8	14.6	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
24.3	85°	17.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.5	87.5°	6.1	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

180°
2257.1
1369.8
802.2
652.7
602.9
556.7
512.9
472.8
433.9
396.2
358.6
328.2
302.6
283.2
265.0
250.4
230.9
215.1
204.2
193.3
186.0
179.9
172.6
164.1
149.5
121.5
85.1
71.7
57.1
41.3
23.1
4.9
0.0
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