

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: P949715

Luminaire Tested: **GALN-SB4B-850-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949715
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-SB4B-850-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 18277 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

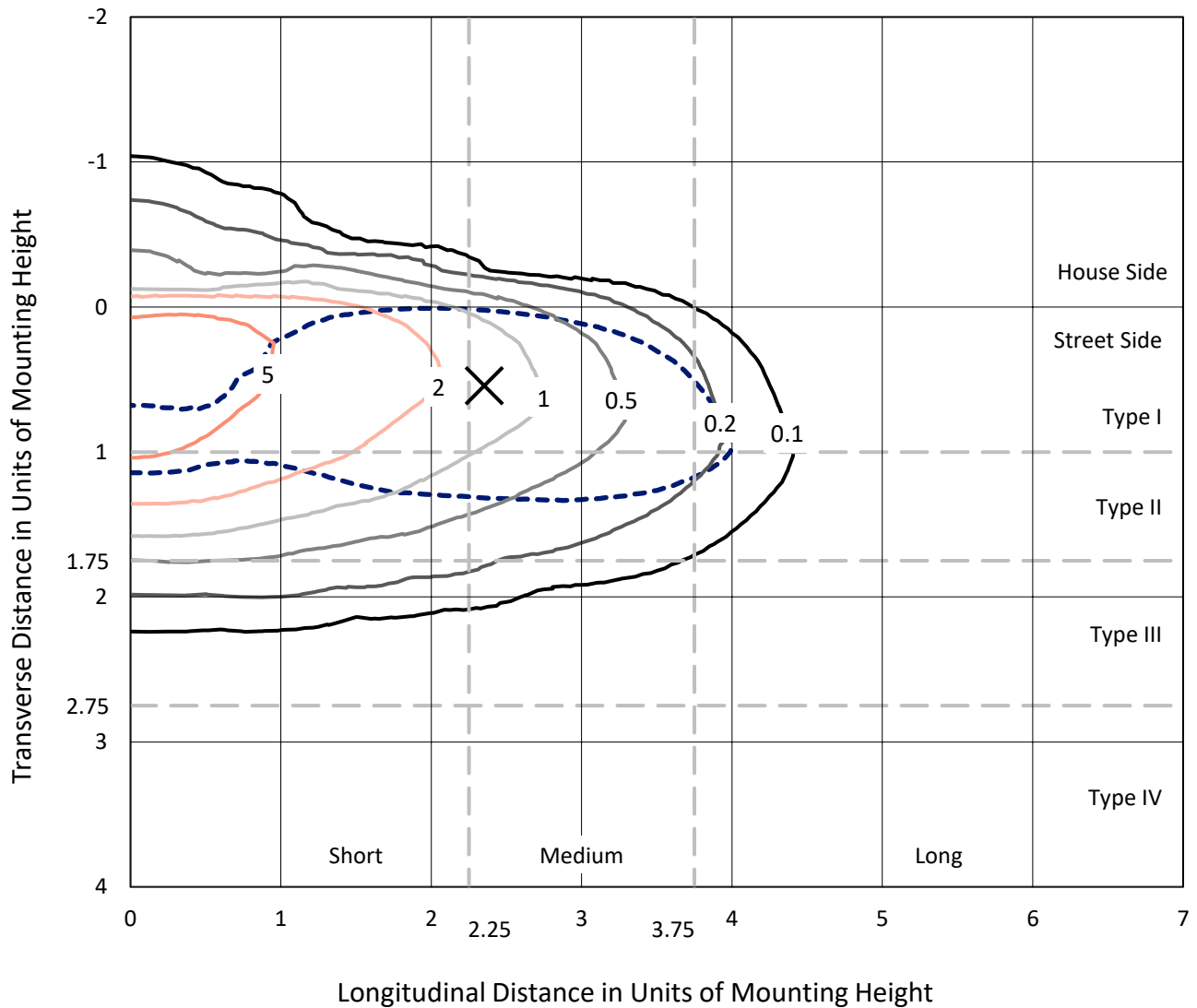
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

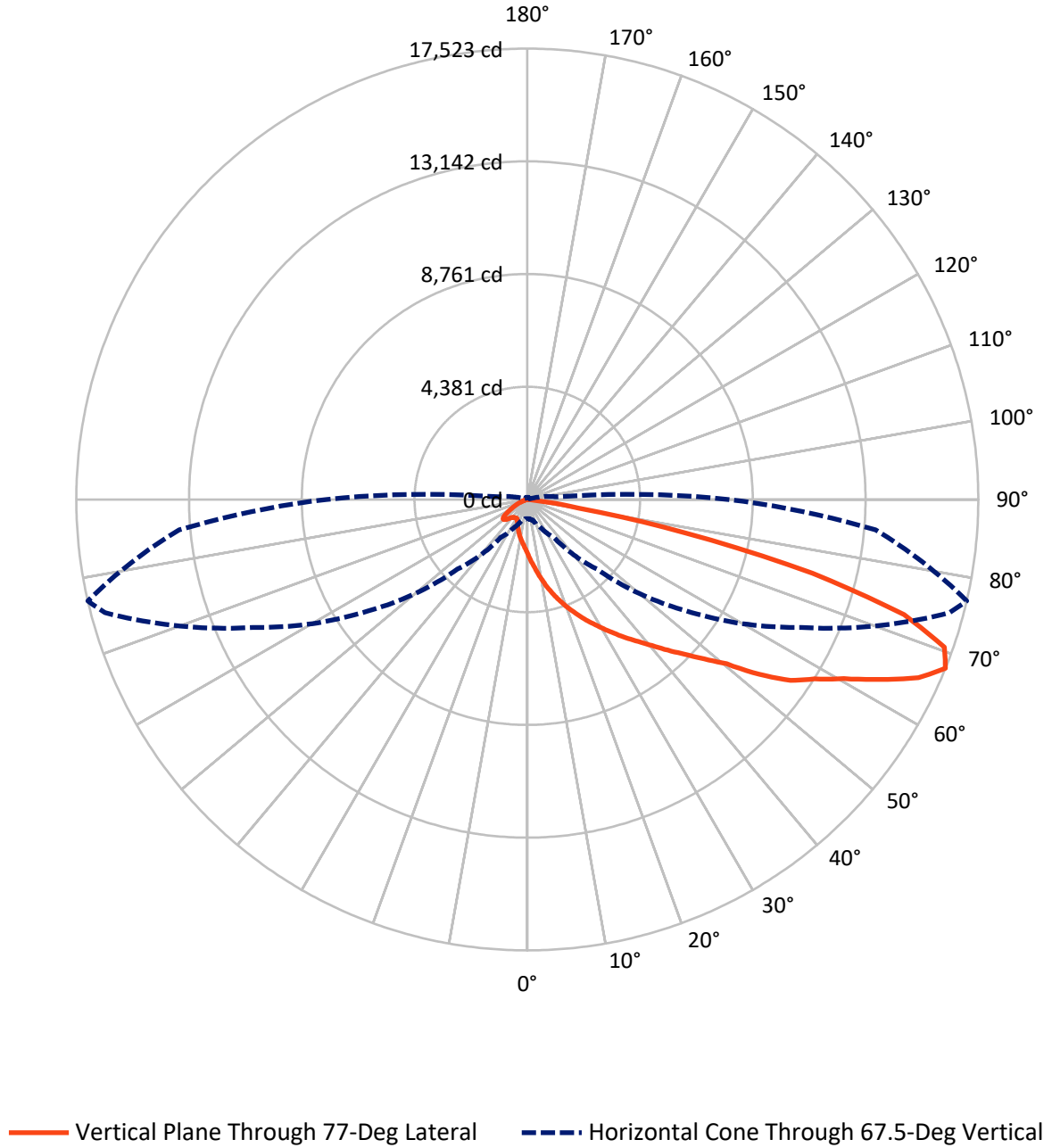
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	1344.6	0.0	1344.6
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	16932.4	0.0	16932.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	18277.0	0.0	18277.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.1	1.2
10°-20°	753.3	4.1
20°-30°	1453.7	8.0
30°-40°	2523.7	13.8
40°-50°	3664.2	20.0
50°-60°	4207.9	23.0
60°-70°	3653.3	20.0
70°-80°	1720.7	9.4
80°-90°	85.1	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°	18277.0	100.0
0°-180°	18277.0	100.0

Coefficient of Utilization



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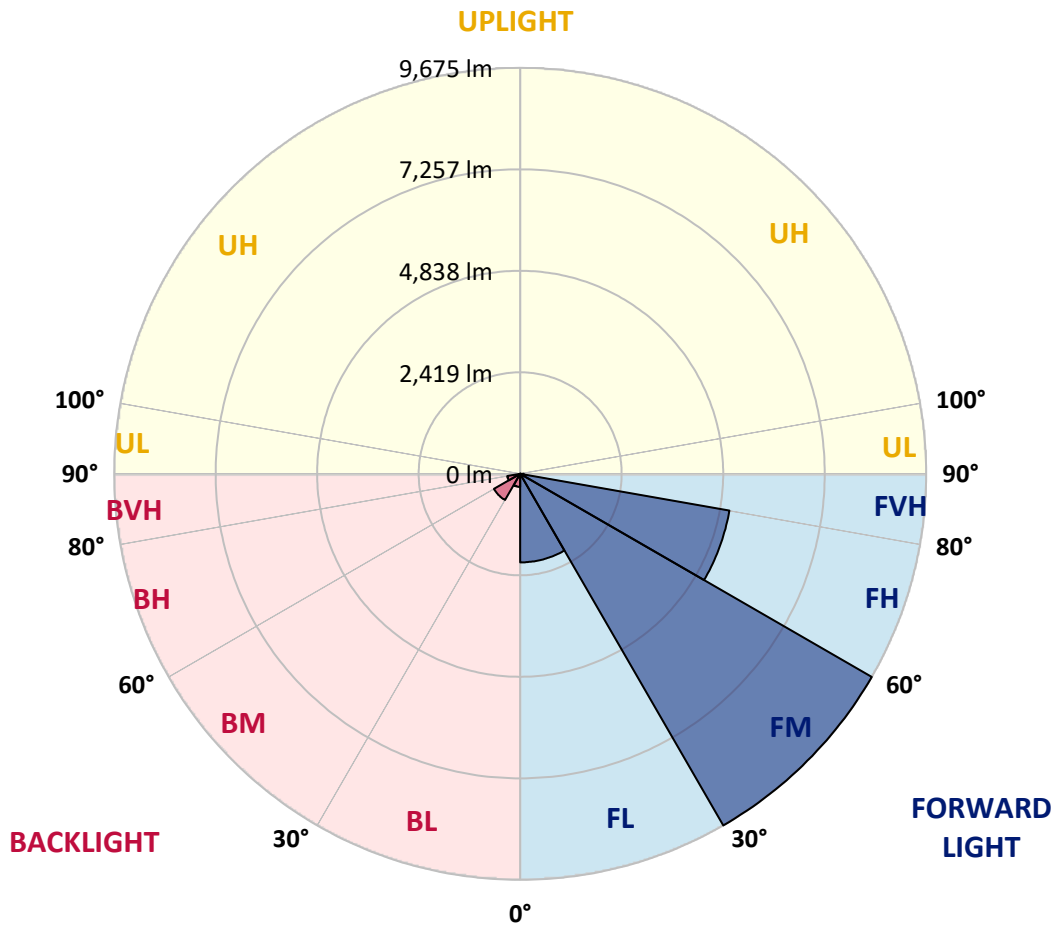
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2110.8	11.5			
FM (30°-60°)	9675.4	52.9			
FH (60°-80°)	5062.7	27.7			G3/7500
FVH (80°-90°)	83.5	0.5			G1/100
BL (0°-30°)	311.3	1.7	B1/500		
BM (30°-60°)	720.5	3.9	B1/1000		
BH (60°-80°)	311.3	1.7	B1/500		G1/500
BVH (80°-90°)	1.6	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°	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6
2.5°	2918.0	2936.1	2910.0	2860.1	2785.2	2736.4	2617.2	2504.8	2380.0	2340.3
5°	3556.9	3572.8	3543.3	3488.8	3389.0	3293.6	3137.0	2902.1	2658.1	2579.7
7.5°	4030.2	4039.3	4027.9	3978.0	3882.7	3774.9	3600.1	3322.0	2960.0	2873.7
10°	4370.7	4400.2	4396.8	4377.5	4314.0	4226.6	4040.4	3723.8	3298.2	3186.9
12.5°	4596.6	4629.5	4648.8	4691.9	4688.5	4632.9	4469.4	4134.6	3635.3	3504.7
15°	4662.4	4697.6	4771.3	4871.2	4959.7	4988.1	4873.5	4537.5	4006.4	3839.5
17.5°	4624.9	4679.4	4767.9	4925.7	5119.8	5248.0	5235.5	4926.8	4343.5	4152.8
20°	4707.8	4760.0	4829.2	4962.0	5187.9	5420.5	5513.6	5299.1	4678.3	4478.5
22.5°	5166.3	5157.2	5164.0	5185.6	5320.7	5551.1	5742.9	5637.3	5009.7	4805.4
25°	5892.7	5851.8	5782.6	5665.7	5631.6	5742.9	5942.6	5936.9	5359.2	5140.2
27.5°	6725.7	6718.9	6556.6	6275.2	6116.3	6073.1	6168.5	6228.6	5705.4	5471.6
30°	7523.6	7541.8	7322.7	7009.5	6717.8	6548.7	6462.4	6505.5	6057.2	5829.1
32.5°	8218.2	8237.5	7999.1	7632.6	7271.6	7067.3	6885.8	6779.1	6440.9	6192.3
35°	8805.0	8824.3	8550.7	8145.6	7760.8	7575.8	7370.4	7078.7	6826.7	6595.2
37.5°	9329.3	9323.6	8957.0	8548.5	8170.5	8024.1	7916.3	7447.6	7224.0	7000.4
40°	9639.2	9663.0	9349.7	8899.2	8532.6	8425.9	8419.1	7904.9	7682.5	7465.7
42.5°	9729.9	9771.9	9545.0	9175.0	8842.4	8726.6	8904.8	8399.8	8215.9	8004.8
45°	9566.5	9607.4	9504.1	9247.6	9053.5	8978.6	9322.5	8912.8	8785.7	8576.8
47.5°	9089.8	9140.9	9165.9	9111.4	9109.1	9185.2	9697.0	9453.0	9462.1	9248.7
50°	8167.1	8253.4	8482.6	8675.6	8974.1	9348.6	10061.4	10038.7	10224.8	10040.9
52.5°	6489.7	6612.2	7402.2	7929.9	8600.7	9318.0	10462.0	10978.4	11562.9	11293.9
55°	5215.1	5215.1	5857.5	6844.9	7872.0	9115.9	10636.8	11589.0	12474.3	12410.7
57.5°	4251.5	4302.6	4712.3	5585.1	6817.7	8634.7	10744.6	11972.6	13208.6	13162.0
60°	2624.0	2734.1	3508.1	4369.6	5618.0	7777.8	10676.5	12360.8	14099.5	14137.0
62.5°	1477.7	1518.6	1863.6	3143.8	4368.4	6625.9	10155.6	12577.5	15239.0	15397.9
65°	1020.3	1040.8	1173.5	1956.7	3028.1	5275.3	9137.5	12442.5	16380.8	16702.0
67.5°	741.1	751.3	834.2	1195.1	1796.6	3824.8	7541.8	11761.5	16985.7	17522.5
70°	569.7	576.6	636.7	785.4	1061.2	2360.7	5477.3	10407.5	16547.6	17188.9
72.5°	463.1	469.9	516.4	581.1	703.7	1396.0	3319.7	8452.0	14613.6	15306.0
75°	390.4	399.5	441.5	483.5	551.6	896.6	1557.2	5885.9	10989.7	11443.7
77.5°	216.8	199.8	358.6	400.6	465.3	567.5	728.6	3463.9	6154.8	6280.8
80°	135.1	139.6	284.9	322.3	357.5	286.0	333.7	1333.6	2133.7	2027.0
82.5°	7.9	18.2	219.0	232.7	245.1	122.6	126.0	452.8	514.1	472.1
85°	0.0	0.0	99.9	80.6	85.1	35.2	36.3	105.6	69.2	74.9
87.5°	0.0	0.0	0.0	2.3	0.0	3.4	6.8	9.1	3.4	4.5
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°
2107.6	0°	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6
2215.4	2.5°	2136.0	2056.5	1895.4	1737.6	1609.4	1490.2	1405.1	1324.5	1283.6	1281.4
2358.4	5°	2200.7	2033.8	1711.5	1426.6	1197.4	1013.5	894.3	809.2	766.1	751.3
2534.3	7.5°	2291.5	2040.6	1550.3	1154.2	884.1	726.4	658.3	631.0	622.0	611.7
2733.0	10°	2406.1	2056.5	1406.2	929.5	696.9	617.4	590.2	578.8	572.0	565.2
2956.6	12.5°	2534.3	2071.3	1263.2	771.8	612.9	572.0	552.7	539.1	530.0	522.1
3185.8	15°	2659.2	2080.4	1114.5	661.7	569.7	536.8	516.4	501.6	489.2	480.1
3410.5	17.5°	2782.9	2092.9	974.9	595.9	534.6	501.6	481.2	463.1	452.8	442.6
3646.6	20°	2920.2	2090.6	843.3	549.3	499.4	466.5	444.9	427.9	417.7	406.3
3896.3	22.5°	3047.3	2079.2	727.5	509.6	463.1	431.3	407.4	390.4	380.2	371.1
4151.7	25°	3193.8	2070.2	631.0	473.3	429.0	397.2	371.1	355.2	343.9	335.9
4408.2	27.5°	3334.5	2056.5	560.7	440.4	396.1	365.5	340.5	322.3	312.1	306.4
4672.6	30°	3473.0	2053.1	534.6	408.6	366.6	335.9	311.0	294.0	286.0	283.7
4963.1	32.5°	3639.8	2062.2	545.9	397.2	339.4	308.7	284.9	272.4	264.4	264.4
5286.6	35°	3818.0	2059.9	562.9	407.4	321.2	281.5	263.3	255.4	247.4	247.4
5645.3	37.5°	4041.6	2063.3	576.6	424.5	314.4	258.8	248.6	238.3	233.8	233.8
6037.9	40°	4375.2	2175.7	569.7	439.2	312.1	242.9	222.5	219.0	215.6	215.6
6481.7	42.5°	4783.8	2419.7	578.8	440.4	311.0	231.5	204.3	211.1	203.2	202.0
6982.2	45°	5231.0	2686.4	636.7	416.5	309.8	225.9	195.2	203.2	190.7	190.7
7562.2	47.5°	5674.8	2950.9	695.7	382.5	306.4	224.7	187.3	182.7	179.3	180.5
8318.1	50°	6286.5	3166.5	718.4	335.9	298.5	222.5	172.5	173.6	171.4	173.6
9383.8	52.5°	6952.7	3211.9	691.2	283.7	275.8	215.6	162.3	166.8	165.7	168.0
10134.0	55°	7368.1	3163.1	570.9	236.1	240.6	188.4	152.1	161.2	161.2	161.2
10867.2	57.5°	7797.1	2955.4	405.2	191.8	199.8	154.4	143.0	155.5	154.4	153.2
11750.2	60°	8105.8	2619.5	266.7	157.8	158.9	127.1	132.8	146.4	145.3	139.6
12660.4	62.5°	8336.2	2248.3	171.4	133.9	121.4	114.6	121.4	132.8	128.2	115.8
13432.2	65°	8310.1	1734.2	131.7	114.6	99.9	99.9	105.6	115.8	102.1	81.7
13579.7	67.5°	7825.5	1173.5	109.0	96.5	84.0	82.9	87.4	96.5	87.4	69.2
12823.8	70°	6959.5	767.2	87.4	74.9	67.0	61.3	70.4	82.9	73.8	55.6
10917.1	72.5°	5648.7	467.6	65.8	54.5	48.8	39.7	55.6	68.1	59.0	40.9
7591.7	75°	3654.5	238.3	45.4	35.2	26.1	23.8	40.9	51.1	40.9	25.0
3368.5	77.5°	1398.3	99.9	25.0	15.9	13.6	11.3	22.7	30.6	17.0	5.7
652.6	80°	269.0	42.0	12.5	7.9	6.8	4.5	3.4	2.3	0.0	0.0
115.8	82.5°	46.5	13.6	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
22.7	85°	15.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.9	87.5°	5.7	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°
2107.6
1279.1
749.1
609.5
562.9
519.8
478.9
441.5
405.2
370.0
334.8
306.4
282.6
264.4
247.4
233.8
215.6
200.9
190.7
180.5
173.6
168.0
161.2
153.2
139.6
113.5
79.4
67.0
53.3
38.6
21.6
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