

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: P951332

Luminaire Tested: **GALN-SB5C-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951332
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-SB5C-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 615mA 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: 32031 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

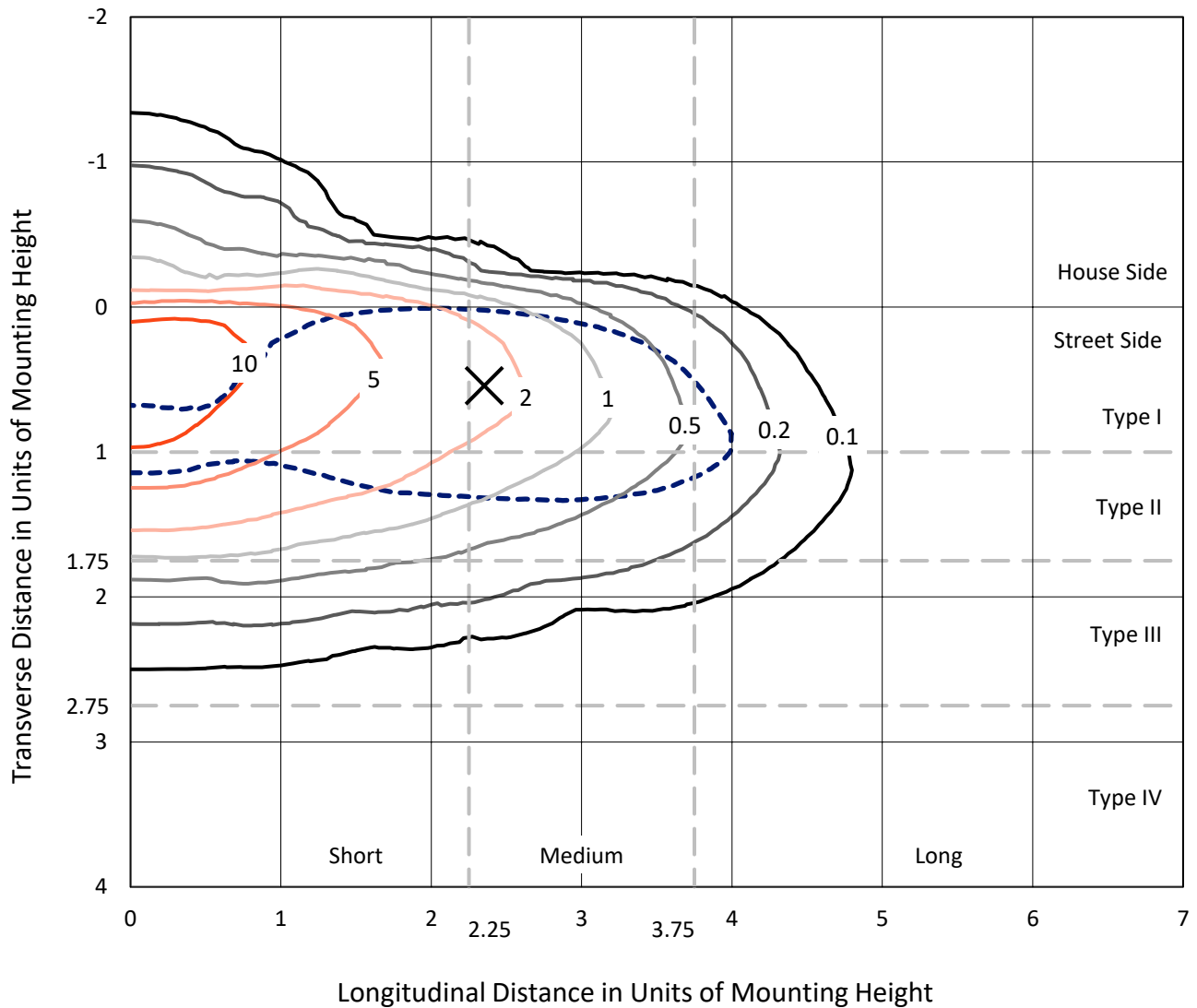
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

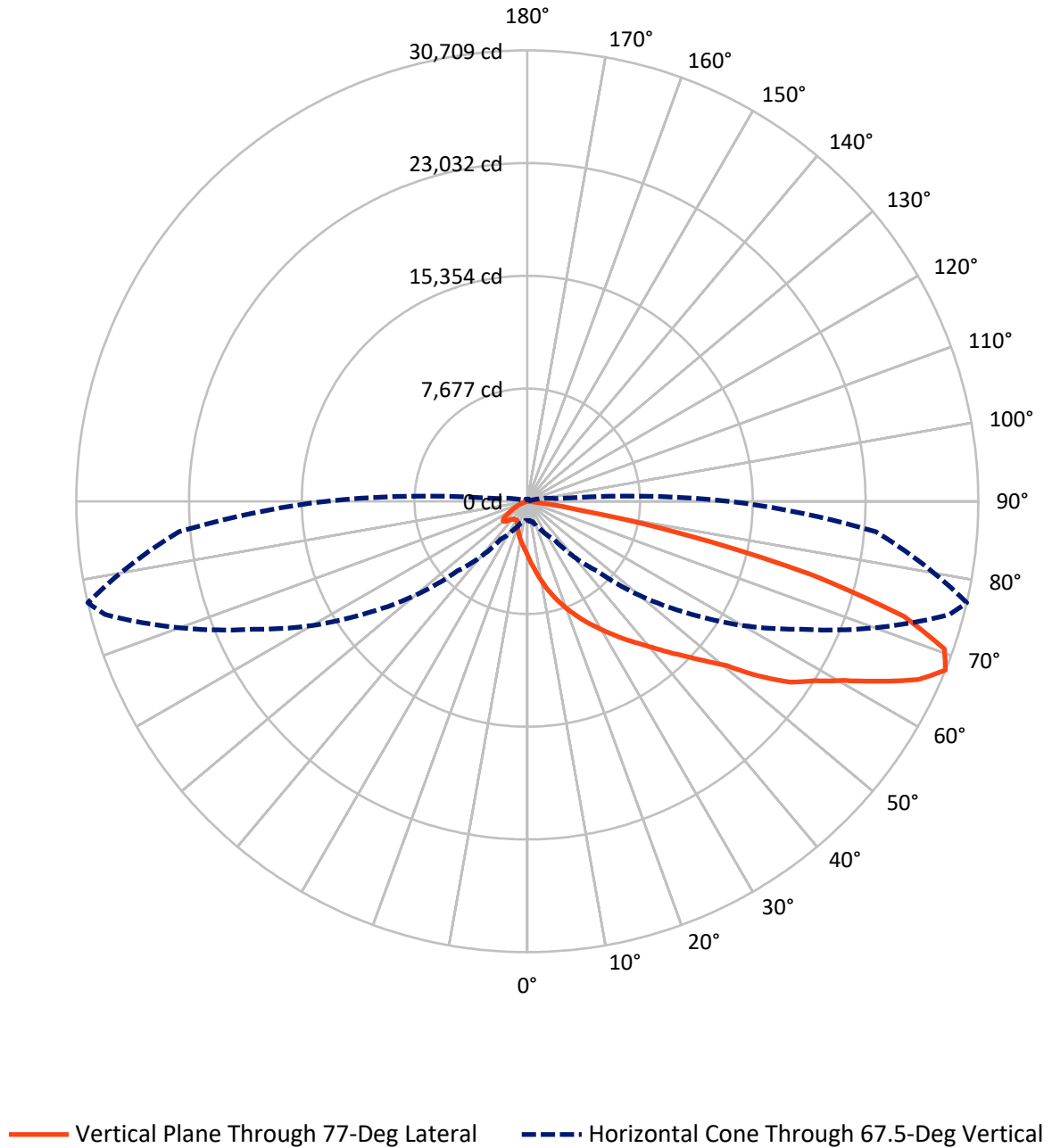
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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	2356.5	0.0	2356.5
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	29674.5	0.0	29674.5
	% Fixture	92.6	0.0	92.6
Total	Lumens	32031.0	0.0	32031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.0	1.2
10°-20°	1320.2	4.1
20°-30°	2547.6	8.0
30°-40°	4422.8	13.8
40°-50°	6421.7	20.0
50°-60°	7374.5	23.0
60°-70°	6402.4	20.0
70°-80°	3015.6	9.4
80°-90°	149.1	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°	32031.0	100.0
0°-180°	32031.0	100.0

Coefficient of Utilization



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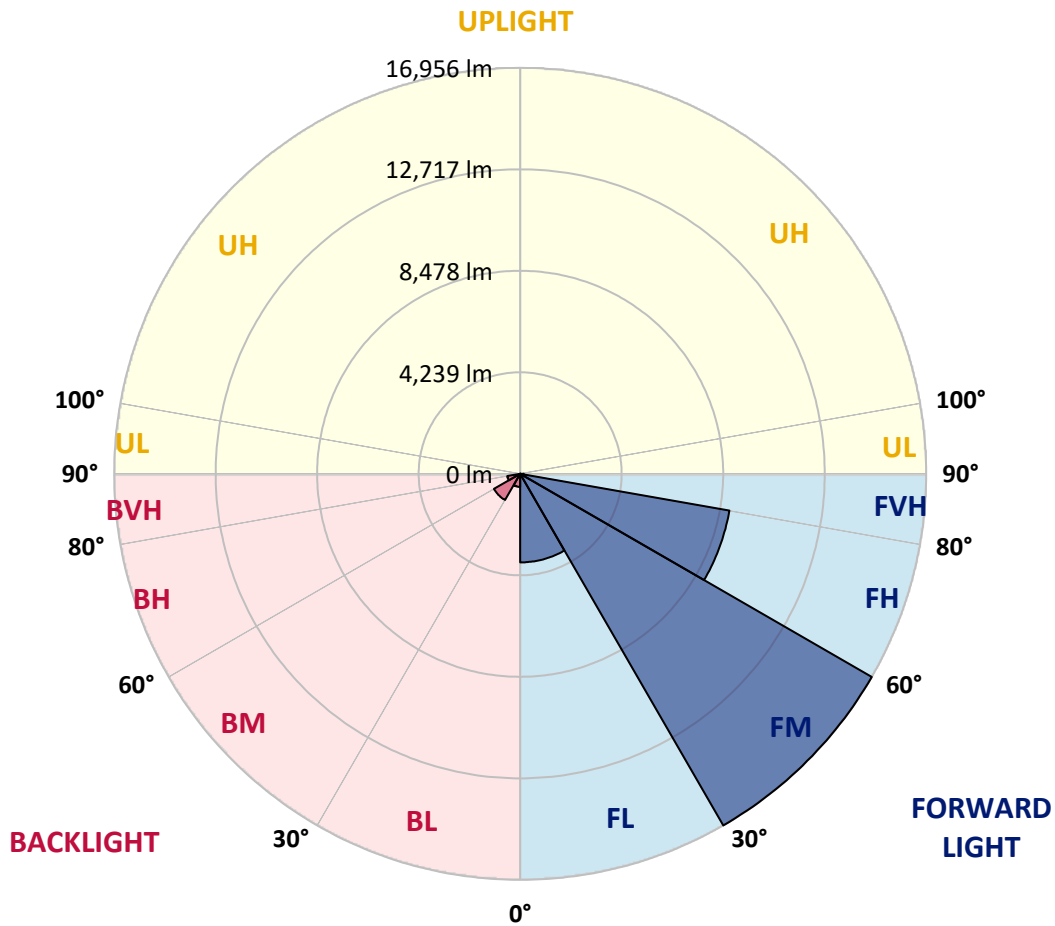
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3699.2	11.5			
FM (30°-60°)	16956.3	52.9			
FH (60°-80°)	8872.5	27.7			G4/12000
FVH (80°-90°)	146.4	0.5			G2/225
BL (0°-30°)	545.6	1.7	B2/1000		
BM (30°-60°)	1262.7	3.9	B2/2500		
BH (60°-80°)	545.6	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3693.6	3693.6	3693.6	3693.6	3693.6	3693.6	3693.6	3693.6	3693.6	3693.6
2.5°	5113.8	5145.6	5099.9	5012.4	4881.1	4795.6	4586.7	4389.8	4171.0	4101.4
5°	6233.6	6261.5	6209.8	6114.3	5939.3	5772.2	5497.7	5086.0	4658.3	4521.1
7.5°	7063.1	7079.0	7059.1	6971.6	6804.5	6615.5	6309.2	5821.9	5187.4	5036.2
10°	7659.8	7711.5	7705.5	7671.7	7560.3	7407.2	7081.0	6526.0	5780.1	5585.2
12.5°	8055.6	8113.3	8147.1	8222.7	8216.7	8119.3	7832.8	7246.1	6370.9	6142.2
15°	8171.0	8232.6	8361.9	8537.0	8692.1	8741.8	8540.9	7952.2	7021.3	6728.9
17.5°	8105.3	8200.8	8356.0	8632.4	8972.6	9197.3	9175.4	8634.4	7612.1	7277.9
20°	8250.5	8342.0	8463.4	8696.1	9091.9	9499.6	9662.8	9286.8	8198.8	7848.7
22.5°	9054.1	9038.2	9050.1	9087.9	9324.6	9728.4	10064.5	9879.6	8779.6	8421.6
25°	10327.1	10255.5	10134.2	9929.3	9869.6	10064.5	10414.6	10404.7	9392.2	9008.4
27.5°	11787.0	11775.1	11490.7	10997.4	10718.9	10643.3	10810.4	10915.8	9998.9	9589.2
30°	13185.3	13217.2	12833.3	12284.3	11773.1	11476.8	11325.6	11401.2	10615.5	10215.7
32.5°	14402.6	14436.4	14018.7	13376.3	12743.8	12385.7	12067.5	11880.5	11287.8	10852.2
35°	15431.0	15464.8	14985.4	14275.3	13601.0	13276.8	12916.8	12405.6	11964.1	11558.3
37.5°	16349.9	16340.0	15697.5	14981.4	14319.1	14062.5	13873.5	13052.1	12660.2	12268.4
40°	16892.9	16934.7	16385.7	15596.1	14953.6	14766.6	14754.7	13853.7	13463.8	13083.9
42.5°	17052.0	17125.6	16727.8	16079.4	15496.6	15293.7	15606.0	14720.9	14398.7	14028.7
45°	16765.6	16837.2	16656.2	16206.7	15866.6	15735.3	16338.0	15619.9	15397.1	15031.2
47.5°	15930.2	16019.7	16063.5	15968.0	15964.0	16097.3	16994.3	16566.7	16582.6	16208.7
50°	14313.1	14464.3	14866.1	15204.2	15727.3	16383.7	17632.8	17593.0	17919.3	17597.0
52.5°	11373.3	11588.1	12972.5	13897.4	15072.9	16330.0	18335.0	19240.0	20264.3	19792.9
55°	9139.6	9139.6	10265.4	11995.9	13796.0	15976.0	18641.3	20310.1	21861.5	21750.1
57.5°	7450.9	7540.4	8258.5	9788.1	11948.2	15132.6	18830.2	20982.4	23148.4	23066.9
60°	4598.7	4791.6	6148.1	7657.8	9845.7	13630.9	18710.9	21662.6	24709.8	24775.5
62.5°	2589.7	2661.3	3266.0	5509.6	7655.8	11612.0	17797.9	22042.5	26706.8	26985.3
65°	1788.1	1823.9	2056.7	3429.1	5306.8	9245.1	16013.8	21805.8	28707.8	29270.7
67.5°	1298.8	1316.7	1461.9	2094.5	3148.6	6703.1	13217.2	20612.4	29768.0	30708.8
70°	998.5	1010.4	1115.9	1376.4	1859.8	4137.2	9599.1	18239.5	29000.2	30124.0
72.5°	811.5	823.5	905.0	1018.4	1233.2	2446.5	5817.9	14812.4	25610.9	26824.2
75°	684.2	700.1	773.7	847.3	966.7	1571.3	2729.0	10315.2	19259.9	20055.5
77.5°	379.9	350.1	628.5	702.1	815.5	994.5	1277.0	6070.5	10786.6	11007.3
80°	236.7	244.7	499.2	564.9	626.5	501.2	584.8	2337.1	3739.4	3552.4
82.5°	13.9	31.8	383.9	407.8	429.6	214.8	220.8	793.6	901.0	827.4
85°	0.0	0.0	175.0	141.2	149.2	61.7	63.6	185.0	121.3	131.3
87.5°	0.0	0.0	0.0	4.0	0.0	6.0	11.9	15.9	6.0	8.0
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°
3693.6	0°	3693.6	3693.6	3693.6	3693.6	3693.6	3693.6	3693.6	3693.6	3693.6	3693.6
3882.6	2.5°	3743.4	3604.1	3321.7	3045.2	2820.5	2611.6	2462.4	2321.2	2249.6	2245.6
4133.2	5°	3856.7	3564.4	2999.5	2500.2	2098.4	1776.2	1567.4	1418.2	1342.6	1316.7
4441.5	7.5°	4015.9	3576.3	2717.0	2022.9	1549.5	1273.0	1153.6	1105.9	1090.0	1072.1
4789.6	10°	4216.8	3604.1	2464.4	1629.0	1221.3	1082.0	1034.3	1014.4	1002.5	990.5
5181.4	12.5°	4441.5	3630.0	2213.8	1352.5	1074.1	1002.5	968.7	944.8	928.9	915.0
5583.2	15°	4660.3	3645.9	1953.2	1159.6	998.5	940.8	905.0	879.2	857.3	841.4
5977.1	17.5°	4877.1	3667.8	1708.6	1044.2	936.8	879.2	843.4	811.5	793.6	775.7
6390.8	20°	5117.8	3663.8	1477.9	962.7	875.2	817.5	779.7	749.9	732.0	712.1
6828.4	22.5°	5340.6	3643.9	1275.0	893.1	811.5	755.8	714.1	684.2	666.3	650.4
7275.9	25°	5597.2	3628.0	1105.9	829.4	751.9	696.2	650.4	622.6	602.7	588.8
7725.4	27.5°	5843.8	3604.1	982.6	771.7	694.2	640.5	596.7	564.9	547.0	537.0
8188.9	30°	6086.5	3598.2	936.8	716.1	642.5	588.8	545.0	515.2	501.2	497.3
8698.1	32.5°	6378.8	3614.1	956.7	696.2	594.7	541.0	499.2	477.4	463.4	463.4
9264.9	35°	6691.1	3610.1	986.6	714.1	562.9	493.3	461.5	447.5	433.6	433.6
9893.5	37.5°	7083.0	3616.1	1010.4	743.9	551.0	453.5	435.6	417.7	409.7	409.7
10581.7	40°	7667.7	3813.0	998.5	769.8	547.0	425.7	389.9	383.9	377.9	377.9
11359.4	42.5°	8383.8	4240.6	1014.4	771.7	545.0	405.8	358.0	370.0	356.0	354.0
12236.6	45°	9167.5	4708.1	1115.9	730.0	543.0	395.8	342.1	356.0	334.2	334.2
13253.0	47.5°	9945.2	5171.5	1219.3	670.3	537.0	393.8	328.2	320.2	314.3	316.3
14577.7	50°	11017.3	5549.4	1259.1	588.8	523.1	389.9	302.3	304.3	300.3	304.3
16445.4	52.5°	12184.9	5629.0	1211.3	497.3	483.3	377.9	284.4	292.4	290.4	294.4
17760.1	55°	12912.8	5543.5	1000.5	413.7	421.7	330.2	266.5	282.4	282.4	282.4
19045.0	57.5°	13664.7	5179.5	710.1	336.1	350.1	270.5	250.6	272.5	270.5	268.5
20592.5	60°	14205.7	4590.7	467.4	276.5	278.5	222.8	232.7	256.6	254.6	244.7
22187.7	62.5°	14609.5	3940.3	300.3	234.7	212.8	200.9	212.8	232.7	224.8	202.9
23540.3	65°	14563.7	3039.3	230.7	200.9	175.0	175.0	185.0	202.9	179.0	143.2
23798.8	67.5°	13714.4	2056.7	190.9	169.1	147.2	145.2	153.2	169.1	153.2	121.3
22474.1	70°	12196.8	1344.6	153.2	131.3	117.4	107.4	123.3	145.2	129.3	97.5
19132.6	72.5°	9899.4	819.5	115.4	95.5	85.5	69.6	97.5	119.3	103.4	71.6
13304.7	75°	6404.7	417.7	79.6	61.7	45.7	41.8	71.6	89.5	71.6	43.8
5903.5	77.5°	2450.5	175.0	43.8	27.8	23.9	19.9	39.8	53.7	29.8	9.9
1143.7	80°	471.4	73.6	21.9	13.9	11.9	8.0	6.0	4.0	0.0	0.0
202.9	82.5°	81.6	23.9	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
39.8	85°	27.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.9	87.5°	9.9	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

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<u>180°</u>
3693.6
2241.6
1312.8
1068.1
986.6
911.0
839.4
773.7
710.1
648.4
586.8
537.0
495.3
463.4
433.6
409.7
377.9
352.1
334.2
316.3
304.3
294.4
282.4
268.5
244.7
198.9
139.2
117.4
93.5
67.6
37.8
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