

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: P956813

Luminaire Tested: **GALN-SB9B-835-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956813
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-SB9B-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3500K, 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: 40279 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

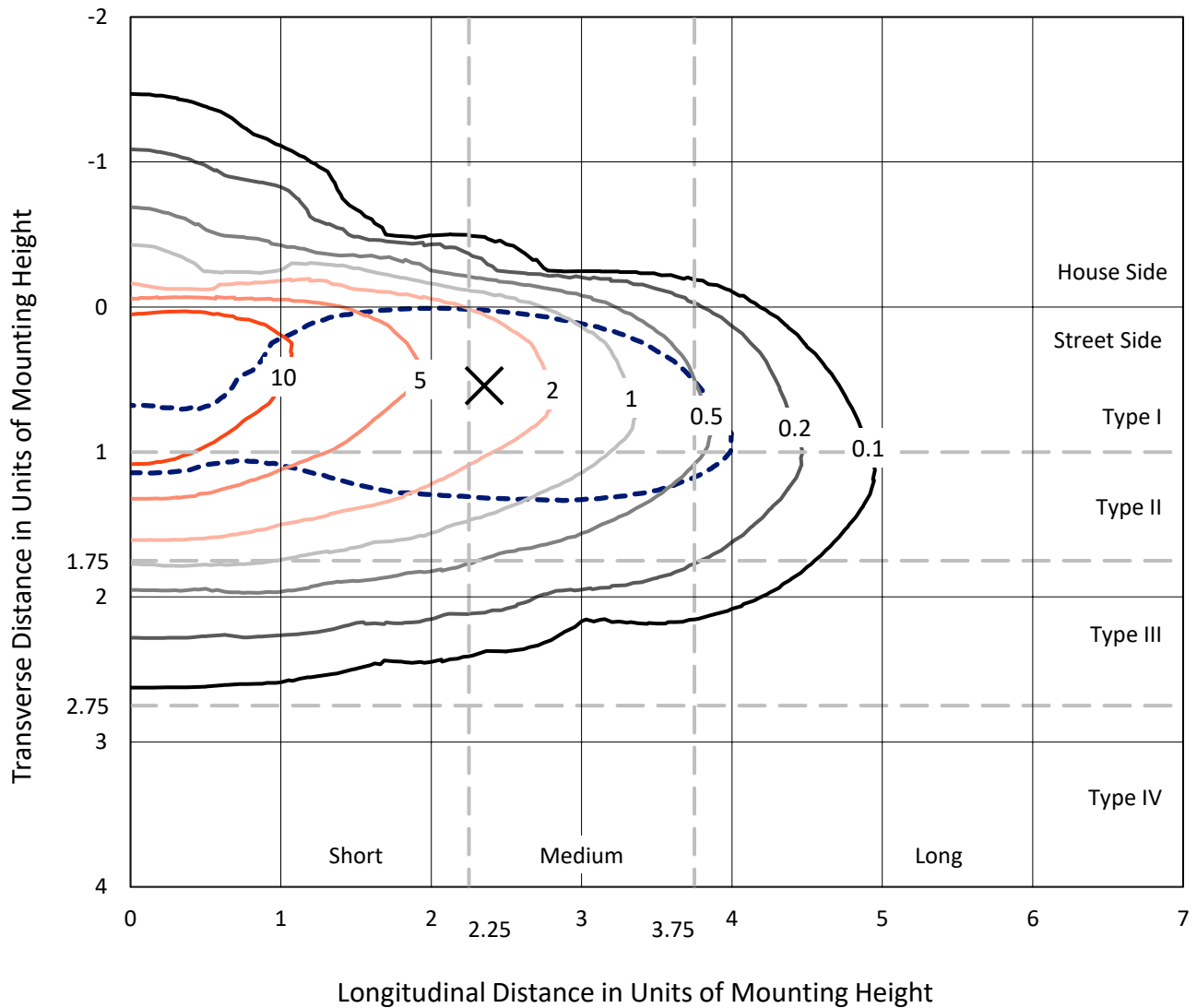
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

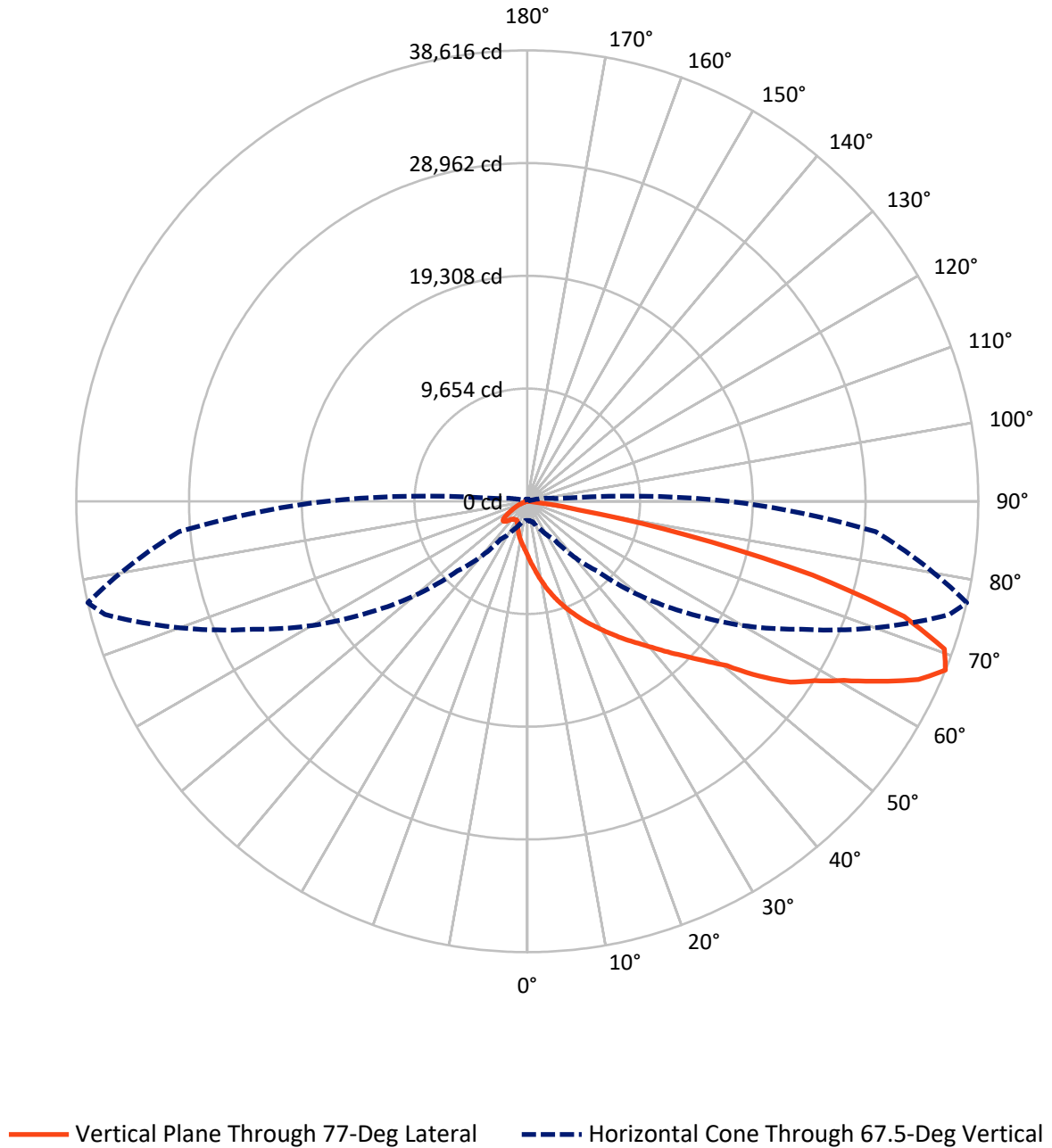
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 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	2963.3	0.0	2963.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	37315.7	0.0	37315.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	40279.0	0.0	40279.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.1	1.2
10°-20°	1660.1	4.1
20°-30°	3203.6	8.0
30°-40°	5561.7	13.8
40°-50°	8075.3	20.0
50°-60°	9273.4	23.0
60°-70°	8051.1	20.0
70°-80°	3792.1	9.4
80°-90°	187.5	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°	40279.0	100.0
0°-180°	40279.0	100.0

Coefficient of Utilization



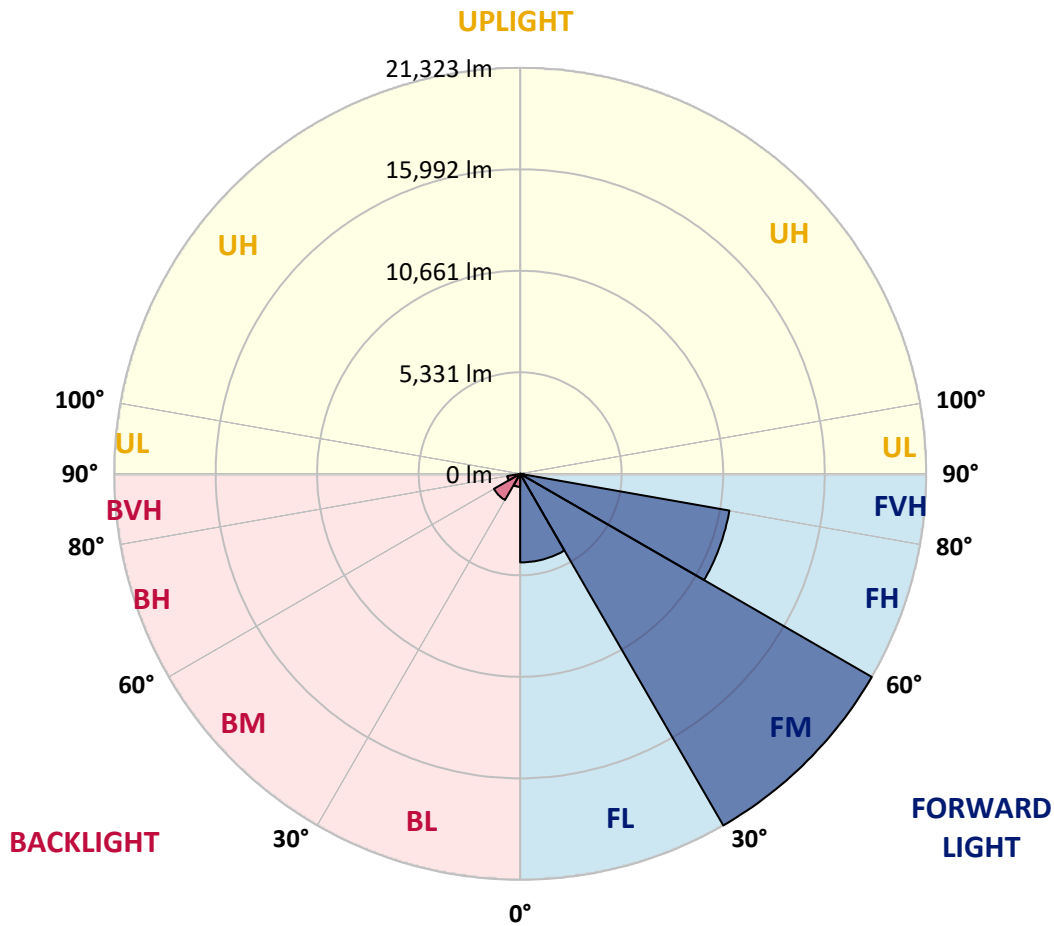
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4651.8	11.5			
FM (30°-60°)	21322.6	52.9			
FH (60°-80°)	11157.2	27.7			G4/12000
FVH (80°-90°)	184.1	0.5			G2/225
BL (0°-30°)	686.1	1.7	B2/1000		
BM (30°-60°)	1587.8	3.9	B2/2500		
BH (60°-80°)	686.0	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.4	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°	4644.8	4644.8	4644.8	4644.8	4644.8	4644.8	4644.8	4644.8	4644.8	4644.8
2.5°	6430.6	6470.6	6413.1	6303.1	6138.0	6030.4	5767.8	5520.2	5245.1	5157.5
5°	7838.8	7873.8	7808.8	7688.7	7468.6	7258.5	6913.4	6395.6	5857.9	5685.3
7.5°	8881.8	8901.8	8876.8	8766.8	8556.7	8319.0	7933.9	7321.1	6523.2	6333.1
10°	9632.2	9697.2	9689.7	9647.2	9507.1	9314.5	8904.3	8206.5	7268.5	7023.4
12.5°	10129.9	10202.5	10245.0	10340.0	10332.5	10210.0	9849.8	9111.9	8011.4	7723.8
15°	10275.0	10352.5	10515.1	10735.2	10930.3	10992.9	10740.2	9999.9	8829.3	8461.6
17.5°	10192.5	10312.5	10507.6	10855.3	11283.0	11565.6	11538.1	10857.8	9572.2	9152.0
20°	10375.0	10490.1	10642.7	10935.3	11433.1	11945.8	12150.9	11678.2	10310.0	9869.8
22.5°	11385.5	11365.5	11380.5	11428.1	11725.7	12233.5	12656.2	12423.5	11040.4	10590.2
25°	12986.3	12896.3	12743.7	12486.1	12411.0	12656.2	13096.4	13083.9	11810.7	11328.0
27.5°	14822.2	14807.2	14449.5	13829.2	13479.1	13384.0	13594.1	13726.7	12573.6	12058.4
30°	16580.6	16620.6	16137.9	15447.5	14804.7	14432.0	14241.9	14337.0	13349.0	12846.3
32.5°	18111.3	18153.8	17628.6	16820.7	16025.3	15575.1	15174.9	14939.8	14194.4	13646.6
35°	19404.4	19447.0	18844.2	17951.2	17103.3	16695.6	16242.9	15600.1	15044.8	14534.6
37.5°	20560.0	20547.5	19739.6	18839.2	18006.3	17683.6	17446.0	16413.0	15920.2	15427.5
40°	21242.8	21295.4	20605.0	19612.0	18804.2	18569.0	18554.0	17421.0	16930.7	16453.0
42.5°	21442.9	21535.5	21035.2	20219.8	19487.0	19231.9	19624.6	18511.5	18106.3	17641.1
45°	21082.8	21172.8	20945.2	20379.9	19952.2	19787.1	20545.0	19642.1	19361.9	18901.7
47.5°	20032.3	20144.8	20199.8	20079.8	20074.8	20242.4	21370.4	20832.6	20852.6	20382.4
50°	17998.8	18188.9	18694.1	19119.3	19777.1	20602.5	22173.3	22123.3	22533.5	22128.3
52.5°	14302.0	14572.1	16312.9	17476.0	18954.2	20535.0	23056.2	24194.3	25482.4	24889.6
55°	11493.1	11493.1	12908.8	15084.8	17348.4	20089.8	23441.4	25539.9	27490.9	27350.8
57.5°	9369.6	9482.1	10385.1	12308.5	15024.8	19029.3	23679.0	26385.3	29109.2	29006.6
60°	5782.8	6025.4	7731.3	9629.7	12381.0	17140.8	23529.0	27240.8	31072.6	31155.2
62.5°	3256.6	3346.6	4107.0	6928.4	9627.2	14602.1	22380.9	27718.5	33583.8	33934.0
65°	2248.6	2293.6	2586.3	4312.1	6673.2	11625.7	20137.3	27420.8	36100.1	36807.9
67.5°	1633.3	1655.8	1838.4	2633.8	3959.4	8429.1	16620.6	25920.1	37433.2	38616.3
70°	1255.6	1270.6	1403.2	1730.8	2338.6	5202.5	12070.9	22936.2	36467.8	37880.9
72.5°	1020.5	1035.5	1138.1	1280.6	1550.8	3076.5	7316.1	18626.6	32205.7	33731.4
75°	860.4	880.4	973.0	1065.5	1215.6	1976.0	3431.7	12971.3	24219.3	25219.8
77.5°	477.7	440.2	790.4	882.9	1025.5	1250.6	1605.8	7633.7	13564.1	13841.7
80°	297.6	307.6	627.8	710.3	787.9	630.3	735.4	2938.9	4702.3	4467.2
82.5°	17.5	40.0	482.7	512.7	540.3	270.1	277.6	998.0	1133.1	1040.5
85°	0.0	0.0	220.1	177.6	187.6	77.5	80.0	232.6	152.6	165.1
87.5°	0.0	0.0	0.0	5.0	0.0	7.5	15.0	20.0	7.5	10.0
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°
4644.8	0°	4644.8	4644.8	4644.8	4644.8	4644.8	4644.8	4644.8	4644.8	4644.8	4644.8
4882.4	2.5°	4707.3	4532.2	4177.0	3829.4	3546.7	3284.1	3096.5	2918.9	2828.9	2823.9
5197.5	5°	4849.9	4482.2	3771.8	3144.0	2638.8	2233.6	1971.0	1783.4	1688.3	1655.8
5585.2	7.5°	5050.0	4497.2	3416.7	2543.7	1948.4	1600.8	1450.7	1390.7	1370.7	1348.2
6022.9	10°	5302.6	4532.2	3099.0	2048.5	1535.7	1360.7	1300.6	1275.6	1260.6	1245.6
6515.7	12.5°	5585.2	4564.7	2783.9	1700.8	1350.7	1260.6	1218.1	1188.1	1168.1	1150.6
7020.9	15°	5860.4	4584.7	2456.2	1458.2	1255.6	1183.1	1138.1	1105.5	1078.0	1058.0
7516.2	17.5°	6133.0	4612.2	2148.5	1313.1	1178.1	1105.5	1060.5	1020.5	998.0	975.5
8036.4	20°	6435.6	4607.2	1858.4	1210.6	1100.5	1028.0	980.5	943.0	920.4	895.4
8586.7	22.5°	6715.8	4582.2	1603.3	1123.0	1020.5	950.5	897.9	860.4	837.9	817.9
9149.5	25°	7038.4	4562.2	1390.7	1043.0	945.5	875.4	817.9	782.9	757.9	740.4
9714.7	27.5°	7348.6	4532.2	1235.6	970.5	872.9	805.4	750.4	710.3	687.8	675.3
10297.5	30°	7653.7	4524.7	1178.1	900.4	807.9	740.4	685.3	647.8	630.3	625.3
10937.8	32.5°	8021.4	4544.7	1203.1	875.4	747.9	680.3	627.8	600.3	582.8	582.8
11650.7	35°	8414.1	4539.7	1240.6	897.9	707.8	620.3	580.3	562.8	545.3	545.3
12441.1	37.5°	8906.8	4547.2	1270.6	935.5	692.8	570.3	547.8	525.3	515.3	515.3
13306.5	40°	9642.2	4794.8	1255.6	968.0	687.8	535.3	490.2	482.7	475.2	475.2
14284.5	42.5°	10542.6	5332.6	1275.6	970.5	685.3	510.2	450.2	465.2	447.7	445.2
15387.5	45°	11528.1	5920.4	1403.2	917.9	682.8	497.7	430.2	447.7	420.2	420.2
16665.6	47.5°	12506.1	6503.2	1533.2	842.9	675.3	495.2	412.7	402.7	395.2	397.7
18331.4	50°	13854.2	6978.4	1583.3	740.4	657.8	490.2	380.2	382.7	377.7	382.7
20680.1	52.5°	15322.5	7078.4	1523.2	625.3	607.8	475.2	357.7	367.7	365.2	370.2
22333.4	55°	16237.9	6970.9	1258.1	520.3	530.3	415.2	335.2	355.2	355.2	355.2
23949.2	57.5°	17183.4	6513.2	892.9	422.7	440.2	340.2	315.2	342.7	340.2	337.7
25895.1	60°	17863.7	5772.8	587.8	347.7	350.2	280.1	292.6	322.7	320.2	307.6
27901.1	62.5°	18371.4	4954.9	377.7	295.1	267.6	252.6	267.6	292.6	282.6	255.1
29601.9	65°	18313.9	3821.9	290.1	252.6	220.1	220.1	232.6	255.1	225.1	180.1
29927.1	67.5°	17245.9	2586.3	240.1	212.6	185.1	182.6	192.6	212.6	192.6	152.6
28261.3	70°	15337.5	1690.8	192.6	165.1	147.6	135.1	155.1	182.6	162.6	122.6
24059.2	72.5°	12448.6	1030.5	145.1	120.1	107.6	87.5	122.6	150.1	130.1	90.0
16730.6	75°	8053.9	525.3	100.0	77.5	57.5	52.5	90.0	112.6	90.0	55.0
7423.6	77.5°	3081.5	220.1	55.0	35.0	30.0	25.0	50.0	67.5	37.5	12.5
1438.2	80°	592.8	92.5	27.5	17.5	15.0	10.0	7.5	5.0	0.0	0.0
255.1	82.5°	102.5	30.0	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
50.0	85°	35.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5	87.5°	12.5	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>
4644.8
2818.9
1650.8
1343.2
1240.6
1145.6
1055.5
973.0
892.9
815.4
737.9
675.3
622.8
582.8
545.3
515.3
475.2
442.7
420.2
397.7
382.7
370.2
355.2
337.7
307.6
250.1
175.1
147.6
117.6
85.0
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