

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: P955973

Luminaire Tested: **GALN-SB8D-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955973
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-SB8D-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 900mA 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: 69669 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

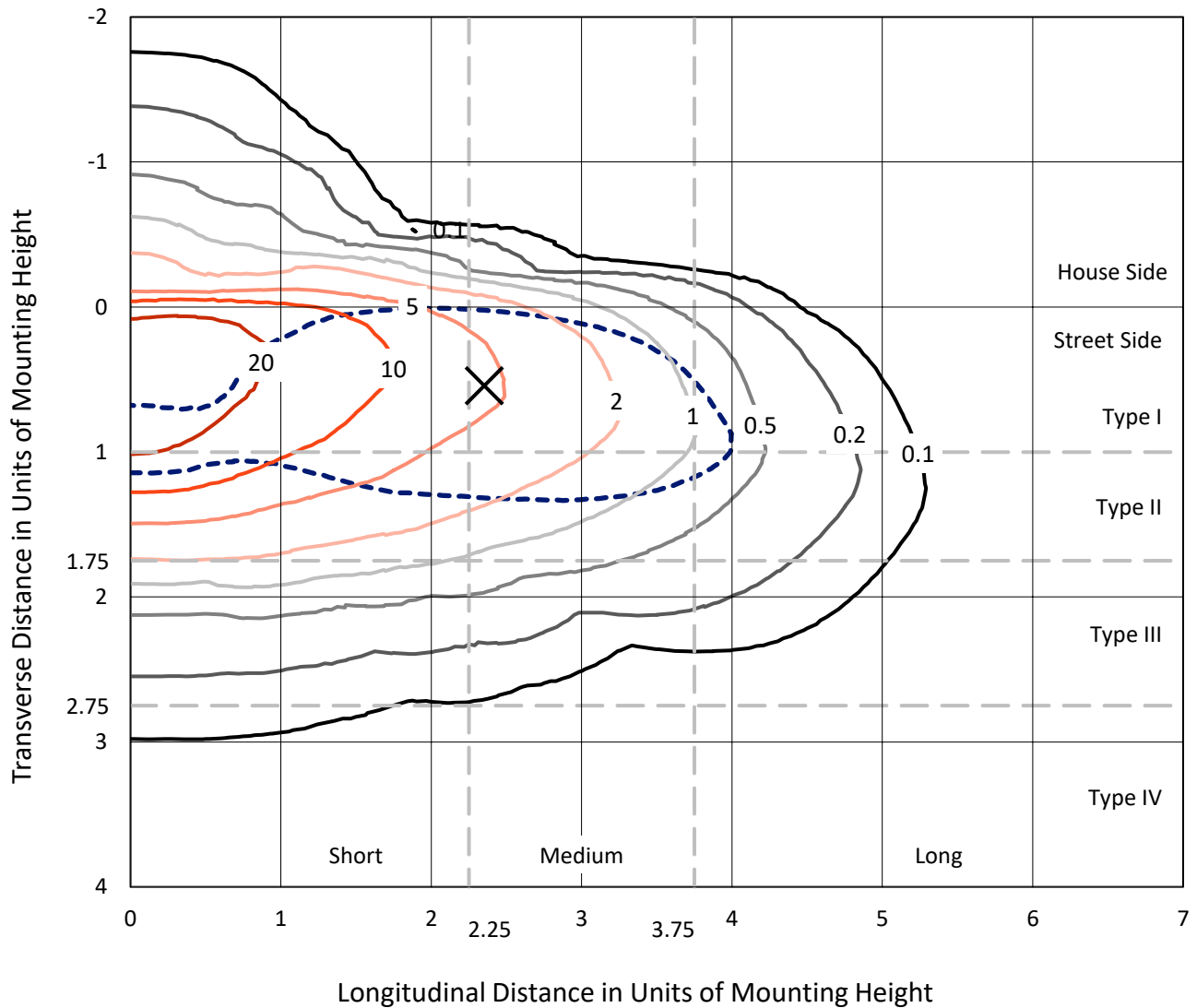
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

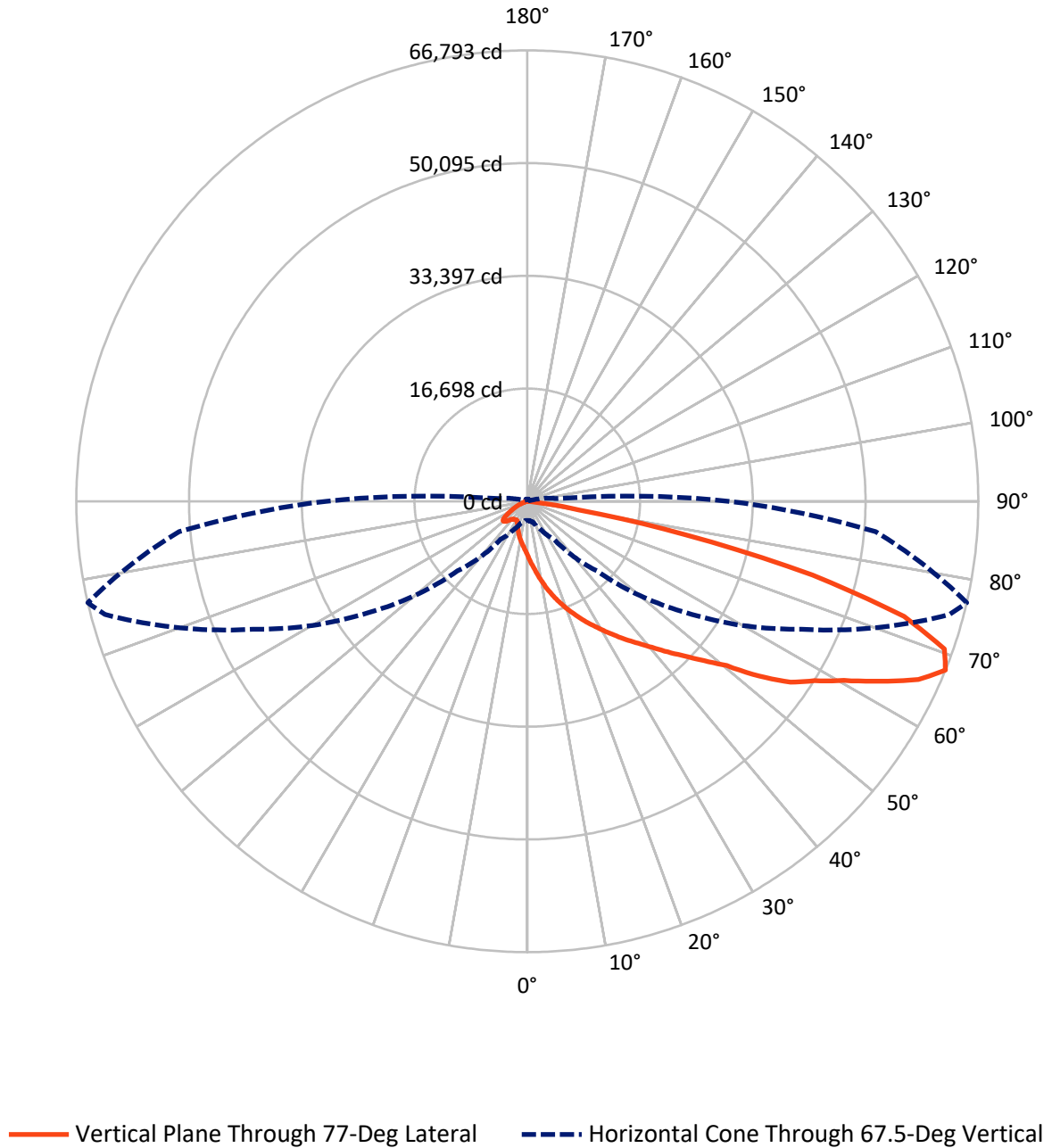
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.1 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	5125.6	0.0	5125.6
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	64543.4	0.0	64543.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	69669.0	0.0	69669.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	820.0	1.2
10°-20°	2871.5	4.1
20°-30°	5541.2	8.0
30°-40°	9619.8	13.8
40°-50°	13967.5	20.0
50°-60°	16039.9	23.0
60°-70°	13925.6	20.0
70°-80°	6559.1	9.4
80°-90°	324.4	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°	69669.0	100.0
0°-180°	69669.0	100.0

Coefficient of Utilization



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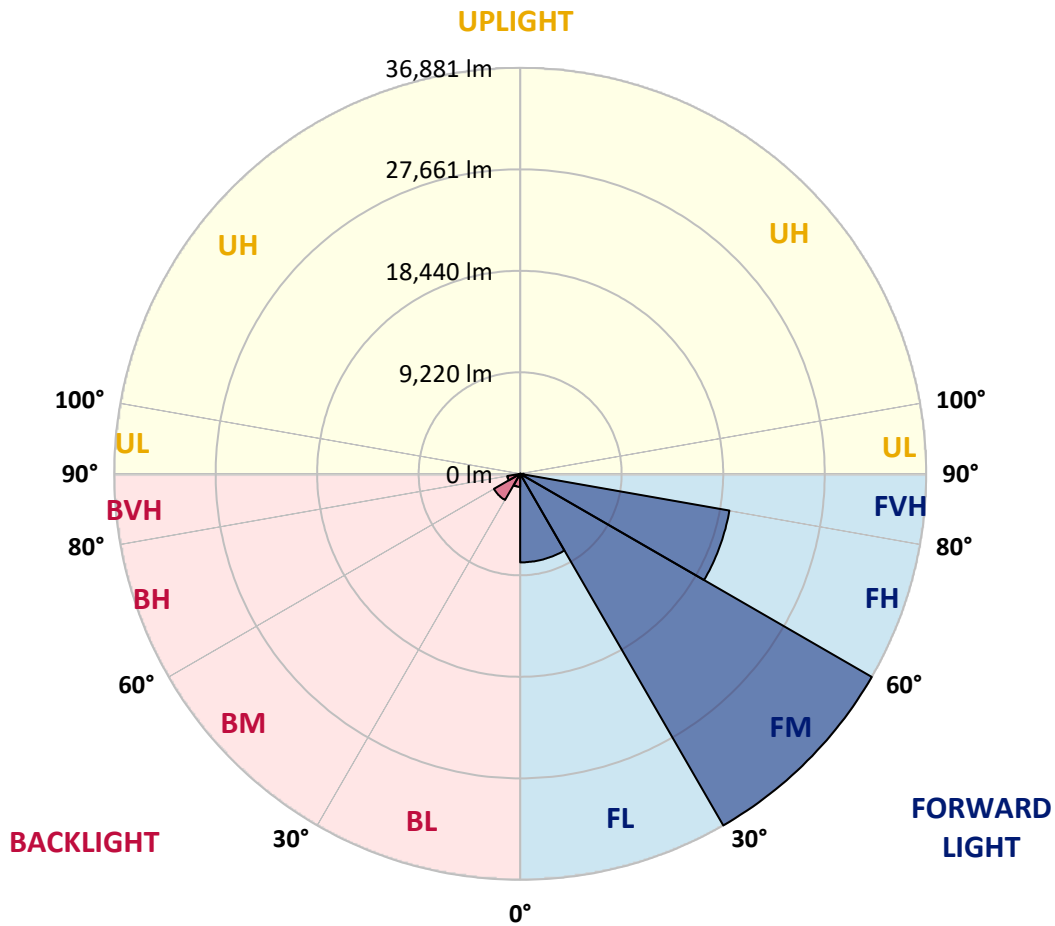
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8046.0	11.5			
FM (30°-60°)	36880.9	52.9			
FH (60°-80°)	19298.1	27.7			G5
FVH (80°-90°)	318.4	0.5			G3/500
BL (0°-30°)	1186.7	1.7	B3/2500		
BM (30°-60°)	2746.4	3.9	B3/5000		
BH (60°-80°)	1186.6	1.7	B3/2500		G3/2500
BVH (80°-90°)	6.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	8033.9	8033.9	8033.9	8033.9	8033.9	8033.9	8033.9	8033.9	8033.9	8033.9
2.5°	11122.8	11192.0	11092.5	10902.2	10616.6	10430.6	9976.3	9548.0	9072.2	8920.7
5°	13558.5	13619.1	13506.6	13298.9	12918.2	12554.8	11957.8	11062.2	10132.1	9833.6
7.5°	15362.5	15397.1	15353.9	15163.5	14800.1	14389.1	13722.9	12663.0	11282.9	10954.1
10°	16660.4	16772.9	16759.9	16686.4	16444.1	16111.0	15401.5	14194.5	12572.1	12148.1
12.5°	17521.3	17646.8	17720.3	17884.7	17871.8	17659.8	17036.8	15760.6	13857.0	13359.5
15°	17772.3	17906.4	18187.6	18568.3	18905.7	19013.9	18576.9	17296.4	15271.7	14635.7
17.5°	17629.5	17837.2	18174.6	18776.0	19515.7	20004.6	19957.0	18780.3	16556.6	15829.8
20°	17945.3	18144.3	18408.2	18914.4	19775.3	20662.2	21017.0	20199.3	17832.8	17071.4
22.5°	19693.1	19658.5	19684.5	19766.7	20281.5	21159.7	21890.9	21488.5	19096.1	18317.4
25°	22461.9	22306.2	22042.3	21596.7	21466.9	21890.9	22652.3	22630.7	20428.6	19593.6
27.5°	25637.4	25611.4	24992.8	23919.9	23314.2	23149.8	23513.2	23742.5	21748.1	20856.9
30°	28678.8	28748.0	27913.0	26719.0	25607.1	24962.5	24633.7	24798.1	23089.2	22219.7
32.5°	31326.4	31400.0	30491.5	29094.1	27718.3	26939.6	26247.4	25840.7	24551.5	23604.1
35°	33563.1	33636.7	32594.0	31049.5	29582.9	28877.8	28094.7	26982.9	26022.4	25139.9
37.5°	35561.8	35540.2	34142.8	32585.4	31144.7	30586.6	30175.6	28388.9	27536.6	26684.4
40°	36742.9	36833.8	35639.7	33922.2	32524.8	32118.1	32092.2	30132.4	29284.4	28458.1
42.5°	37089.0	37249.1	36383.8	34973.5	33705.9	33264.6	33943.8	32018.6	31317.8	30513.1
45°	36466.0	36621.8	36228.1	35250.3	34510.6	34225.0	35535.9	33974.1	33489.6	32693.5
47.5°	34649.0	34843.7	34938.9	34731.2	34722.5	35012.4	36963.5	36033.4	36068.0	35254.7
50°	31131.7	31460.5	32334.4	33069.9	34207.7	35635.4	38352.3	38265.7	38975.3	38274.4
52.5°	24737.5	25204.8	28215.9	30227.6	32784.4	35518.6	39879.4	41847.9	44075.9	43050.6
55°	19879.2	19879.2	22327.8	26091.7	30006.9	34748.5	40545.7	44175.4	47549.9	47307.6
57.5°	16206.2	16400.8	17962.6	21289.5	25987.8	32914.2	40956.7	45637.7	50349.0	50171.6
60°	10002.3	10422.0	13372.5	16656.1	21415.0	29647.8	40697.1	47117.3	53745.1	53887.9
62.5°	5632.8	5788.5	7103.7	11983.7	16651.8	25256.7	38711.4	47943.6	58088.7	58694.3
65°	3889.3	3967.2	4473.4	7458.5	11542.5	20108.4	34830.7	47428.8	62440.9	63665.2
67.5°	2825.0	2864.0	3179.8	4555.5	6848.5	14579.5	28748.0	44833.0	64746.8	66793.1
70°	2171.8	2197.7	2427.0	2993.8	4045.1	8998.6	20878.5	39671.8	63076.8	65521.2
72.5°	1765.1	1791.1	1968.4	2215.0	2682.3	5321.3	12654.3	32217.6	55704.9	58343.9
75°	1488.2	1522.8	1682.9	1843.0	2102.6	3417.7	5935.6	22436.0	41891.1	43621.7
77.5°	826.3	761.4	1367.1	1527.2	1773.8	2163.1	2777.5	13203.7	23461.3	23941.5
80°	514.8	532.1	1085.9	1228.7	1362.8	1090.2	1271.9	5083.4	8133.4	7726.7
82.5°	30.3	69.2	835.0	886.9	934.5	467.2	480.2	1726.2	1959.8	1799.7
85°	0.0	0.0	380.7	307.2	324.5	134.1	138.4	402.3	263.9	285.5
87.5°	0.0	0.0	0.0	8.7	0.0	13.0	26.0	34.6	13.0	17.3
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°
8033.9	0°	8033.9	8033.9	8033.9	8033.9	8033.9	8033.9	8033.9	8033.9	8033.9	8033.9
8444.9	2.5°	8142.0	7839.2	7224.8	6623.5	6134.6	5680.4	5355.9	5048.7	4893.0	4884.3
8990.0	5°	8388.6	7752.7	6524.0	5438.1	4564.2	3863.3	3409.1	3084.6	2920.2	2864.0
9660.5	7.5°	8734.7	7778.6	5909.7	4399.8	3370.2	2768.8	2509.2	2405.4	2370.8	2331.9
10417.6	10°	9171.7	7839.2	5360.2	3543.2	2656.3	2353.5	2249.7	2206.4	2180.4	2154.5
11269.9	12.5°	9660.5	7895.4	4815.1	2941.9	2336.2	2180.4	2106.9	2055.0	2020.4	1990.1
12143.8	15°	10136.4	7930.0	4248.4	2522.2	2171.8	2046.3	1968.4	1912.2	1864.6	1830.0
13000.4	17.5°	10608.0	7977.6	3716.3	2271.3	2037.7	1912.2	1834.3	1765.1	1726.2	1687.2
13900.3	20°	11131.5	7969.0	3214.4	2093.9	1903.6	1778.1	1695.9	1631.0	1592.1	1548.8
14852.0	22.5°	11616.0	7925.7	2773.1	1942.5	1765.1	1644.0	1553.1	1488.2	1449.3	1414.7
15825.4	25°	12174.1	7891.1	2405.4	1804.0	1635.3	1514.2	1414.7	1354.1	1310.9	1280.6
16803.2	27.5°	12710.5	7839.2	2137.2	1678.6	1509.9	1393.1	1297.9	1228.7	1189.7	1168.1
17811.2	30°	13238.3	7826.2	2037.7	1557.5	1397.4	1280.6	1185.4	1120.5	1090.2	1081.6
18918.7	32.5°	13874.3	7860.8	2080.9	1514.2	1293.6	1176.7	1085.9	1038.3	1008.0	1008.0
20151.7	35°	14553.5	7852.2	2145.8	1553.1	1224.3	1072.9	1003.7	973.4	943.1	943.1
21518.8	37.5°	15405.8	7865.1	2197.7	1618.0	1198.4	986.4	947.5	908.5	891.2	891.2
23015.7	40°	16677.7	8293.4	2171.8	1674.3	1189.7	925.8	847.9	835.0	822.0	822.0
24707.3	42.5°	18235.2	9223.6	2206.4	1678.6	1185.4	882.6	778.7	804.7	774.4	770.1
26615.1	45°	19939.7	10240.3	2427.0	1587.7	1181.1	860.9	744.1	774.4	726.8	726.8
28825.9	47.5°	21631.3	11248.3	2652.0	1457.9	1168.1	856.6	713.8	696.5	683.5	687.9
31707.1	50°	23963.1	12070.3	2738.5	1280.6	1137.8	847.9	657.6	661.9	653.3	661.9
35769.5	52.5°	26502.7	12243.3	2634.7	1081.6	1051.3	822.0	618.7	636.0	631.6	640.3
38629.2	55°	28086.1	12057.3	2176.1	899.9	917.2	718.2	579.7	614.3	614.3	614.3
41423.9	57.5°	29721.4	11265.6	1544.5	731.1	761.4	588.4	545.1	592.7	588.4	584.0
44789.7	60°	30898.1	9985.0	1016.7	601.3	605.7	484.5	506.2	558.1	553.8	532.1
48259.4	62.5°	31776.4	8570.3	653.3	510.5	462.9	437.0	462.9	506.2	488.9	441.3
51201.3	65°	31676.9	6610.5	501.8	437.0	380.7	380.7	402.3	441.3	389.4	311.5
51763.7	67.5°	29829.5	4473.4	415.3	367.7	320.1	315.8	333.1	367.7	333.1	263.9
48882.4	70°	26528.6	2924.5	333.1	285.5	255.2	233.6	268.2	315.8	281.2	212.0
41614.3	72.5°	21531.8	1782.4	250.9	207.7	186.0	151.4	212.0	259.6	225.0	155.7
28938.3	75°	13930.5	908.5	173.1	134.1	99.5	90.9	155.7	194.7	155.7	95.2
12840.3	77.5°	5329.9	380.7	95.2	60.6	51.9	43.3	86.5	116.8	64.9	21.6
2487.6	80°	1025.3	160.1	47.6	30.3	26.0	17.3	13.0	8.7	0.0	0.0
441.3	82.5°	177.4	51.9	17.3	8.7	0.0	0.0	0.0	0.0	0.0	0.0
86.5	85°	60.6	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.3	87.5°	21.6	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

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180°
8033.9
4875.7
2855.3
2323.2
2145.8
1981.4
1825.7
1682.9
1544.5
1410.4
1276.2
1168.1
1077.2
1008.0
943.1
891.2
822.0
765.7
726.8
687.9
661.9
640.3
614.3
584.0
532.1
432.6
302.8
255.2
203.3
147.1
82.2
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