

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: P952425

Luminaire Tested: **GALN-SB6B-740-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-740-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36797 lumens
Efficiency: N/A
Efficacy: 167.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

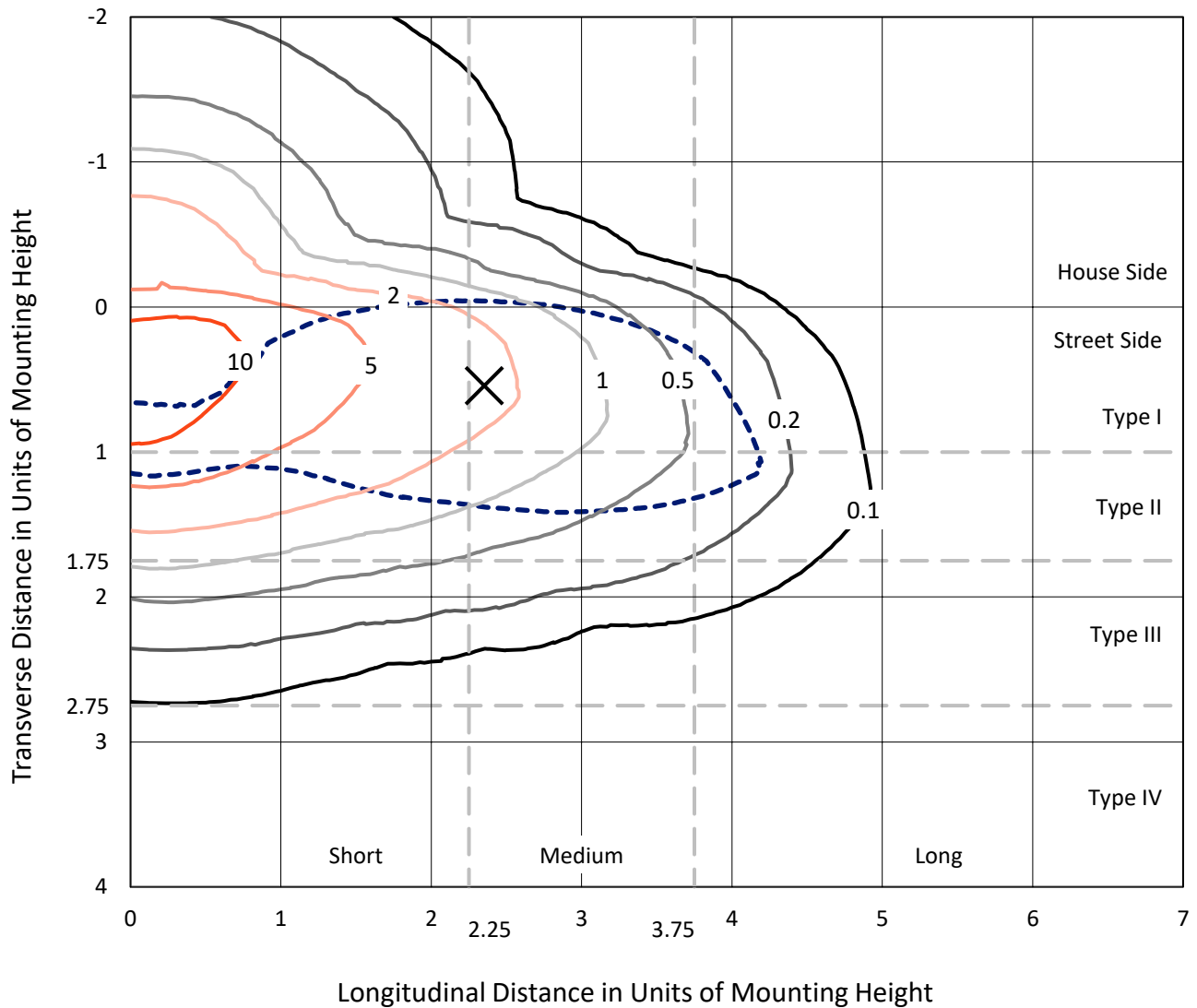
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

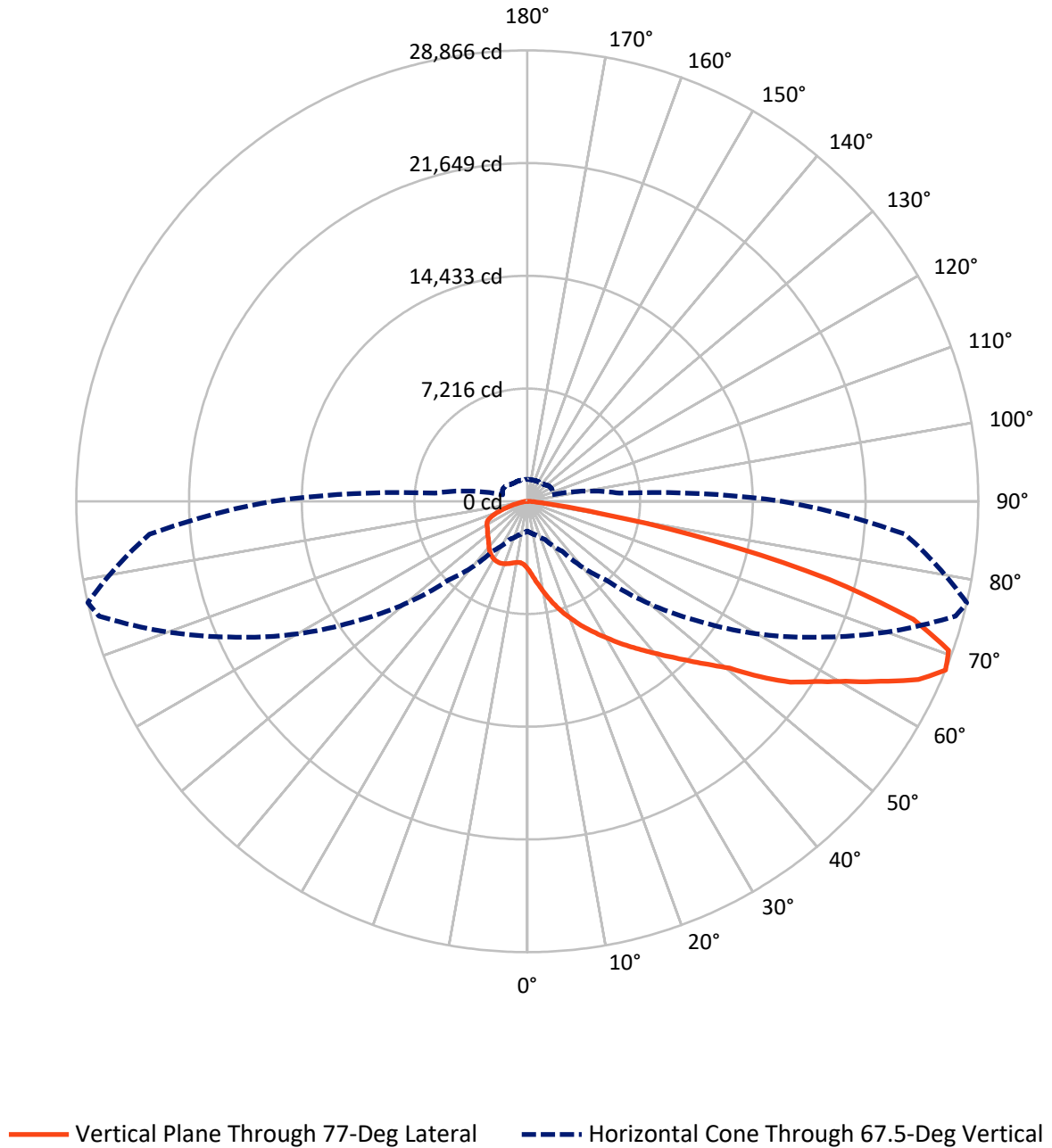
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	6960.5	0.0	6960.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	29836.5	0.0	29836.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	36797.0	0.0	36797.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.8	1.3
10°-20°	1662.5	4.5
20°-30°	3139.0	8.5
30°-40°	5057.0	13.7
40°-50°	6917.0	18.8
50°-60°	7802.4	21.2
60°-70°	7282.6	19.8
70°-80°	3992.1	10.8
80°-90°	481.5	1.3
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°	36797.0	100.0
0°-180°	36797.0	100.0



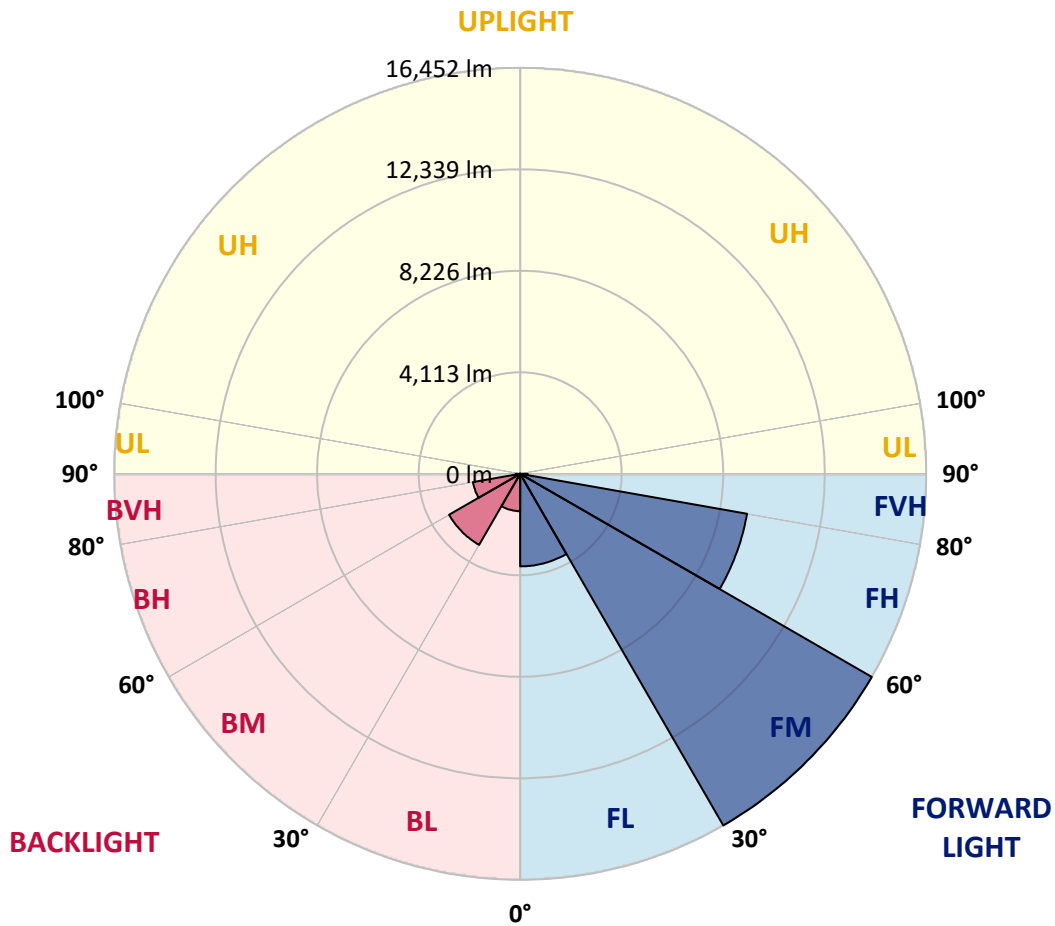
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3751.0	10.2			
FM (30°-60°)	16451.5	44.7			
FH (60°-80°)	9332.8	25.4			G4/12000
FVH (80°-90°)	301.1	0.8			G3/500
BL (0°-30°)	1513.4	4.1	B3/2500		
BM (30°-60°)	3324.9	9.0	B3/5000		
BH (60°-80°)	1941.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	180.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



REPORT NUMBER: P952425

CATALOG NUMBER: GALN-SB6B-740-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4317.4	4317.4	4317.4	4317.4	4317.4	4317.4	4317.4	4317.4	4317.4	4317.4
2.5°	5405.8	5443.8	5396.3	5396.3	5236.8	5153.2	4993.6	4872.1	4653.6	4615.6
5°	6389.7	6437.2	6370.7	6342.2	6154.2	5981.3	5713.5	5449.5	5060.1	5020.2
7.5°	7151.4	7212.2	7153.3	7122.9	6955.8	6762.0	6448.6	6080.1	5531.2	5453.3
10°	7772.5	7782.0	7763.0	7774.4	7643.4	7483.8	7162.8	6733.5	6047.8	5941.5
12.5°	8123.9	8167.6	8205.6	8274.0	8251.2	8152.4	7863.7	7350.8	6594.9	6458.1
15°	8289.2	8365.1	8450.6	8608.3	8735.5	8760.2	8539.9	8013.7	7151.4	6986.1
17.5°	8348.0	8420.2	8555.1	8783.0	9056.5	9240.8	9142.0	8657.7	7702.2	7512.3
20°	8646.3	8667.2	8748.8	8965.4	9261.7	9567.5	9641.6	9276.9	8247.4	8032.7
22.5°	9284.5	9242.7	9265.5	9364.2	9577.0	9873.3	10042.3	9823.9	8807.7	8560.8
25°	10338.7	10217.1	10095.5	9981.6	10089.8	10257.0	10448.8	10371.0	9394.6	9081.2
27.5°	11670.2	11522.0	11254.2	10880.0	10748.9	10807.8	10893.3	10878.1	9937.9	9620.7
30°	12980.8	12807.9	12488.8	11947.5	11601.8	11446.0	11381.5	11337.8	10528.6	10190.5
32.5°	14027.4	13890.6	13577.2	12971.3	12469.8	12203.9	11989.3	11833.5	11145.9	10807.8
35°	14942.9	14815.6	14456.7	13795.6	13250.5	12967.5	12686.4	12354.0	11787.9	11446.0
37.5°	15778.7	15651.4	15159.4	14471.8	13922.9	13727.3	13476.5	12912.4	12431.8	12108.9
40°	16306.7	16278.2	15818.6	15039.8	14469.9	14373.1	14289.5	13560.1	13146.0	12845.9
42.5°	16441.6	16504.3	16139.6	15499.4	14956.2	14878.3	15074.0	14293.3	13947.6	13660.8
45°	16116.8	16297.2	16057.9	15622.9	15301.9	15260.1	15769.2	15094.9	14834.6	14572.5
47.5°	15294.3	15600.1	15501.3	15440.6	15395.0	15575.4	16380.8	15945.8	15839.4	15611.5
50°	13634.2	14213.5	14386.4	14770.1	15210.7	15820.5	16937.3	16874.6	17013.3	16783.5
52.5°	10764.1	11561.9	12564.8	13525.9	14644.7	15738.8	17548.9	18208.0	18793.1	18667.7
55°	8885.6	9244.6	10015.8	11778.4	13546.8	15395.0	17824.4	19285.0	20559.6	20447.5
57.5°	7442.0	7763.0	8237.9	9709.9	11886.7	14614.3	17995.3	19942.2	21769.5	21758.1
60°	5894.0	6234.0	6720.2	7763.0	9947.4	13265.7	17957.3	20690.6	23313.7	23408.7
62.5°	4146.5	4520.7	5060.1	6032.6	7966.3	11518.2	17182.4	21232.0	25131.5	25389.8
65°	2725.7	2972.6	3379.1	4218.7	5935.8	9271.2	15702.7	21302.2	27076.5	27513.4
67.5°	1910.8	2005.8	2245.1	2701.0	3912.9	7109.6	13345.5	20574.8	28373.9	28865.8
70°	1491.1	1538.5	1660.1	1842.5	2457.9	4780.9	10226.6	18682.9	28096.5	28609.4
72.5°	1287.8	1333.4	1379.0	1401.8	1648.7	2951.7	6927.3	15621.0	25484.8	25832.4
75°	1168.2	1179.6	1217.5	1209.9	1257.4	1914.6	3998.3	11381.5	20107.5	19987.8
77.5°	982.0	997.2	1059.9	1050.4	1116.9	1308.7	2076.1	7345.1	13035.9	12222.9
80°	832.0	839.6	907.9	896.5	970.6	947.8	1059.9	3743.8	5529.3	4684.0
82.5°	288.7	357.1	693.3	714.2	740.8	573.6	611.6	1527.2	1688.6	1293.5
85°	140.6	150.1	353.3	501.5	499.6	288.7	298.2	545.1	531.8	417.9
87.5°	22.8	28.5	41.8	195.6	155.8	76.0	102.6	106.4	110.2	95.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P952425
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4317.4	0°	4317.4	4317.4	4317.4	4317.4	4317.4	4317.4	4317.4	4317.4	4317.4	4317.4
4471.3	2.5°	4364.9	4269.9	4070.5	3886.3	3741.9	3603.2	3525.4	3458.9	3420.9	3413.3
4680.2	5°	4482.7	4287.0	3924.2	3618.4	3419.0	3270.8	3193.0	3143.6	3118.9	3103.7
4961.3	7.5°	4651.7	4364.9	3848.3	3500.7	3291.7	3185.4	3145.5	3137.9	3136.0	3137.9
5301.3	10°	4885.4	4492.2	3840.7	3472.2	3297.4	3238.5	3236.6	3238.5	3246.1	3248.0
5671.7	12.5°	5138.0	4623.2	3871.1	3496.9	3369.6	3337.3	3331.6	3329.7	3335.4	3339.2
6045.9	15°	5413.4	4796.1	3922.3	3550.1	3449.4	3415.2	3409.5	3398.1	3396.2	3394.3
6439.1	17.5°	5696.4	4967.0	3979.3	3607.0	3500.7	3453.2	3432.3	3405.7	3384.8	3379.1
6845.6	20°	5983.2	5136.1	4019.2	3635.5	3504.5	3438.0	3396.2	3350.6	3314.5	3293.6
7255.9	22.5°	6289.1	5312.7	4043.9	3627.9	3470.3	3379.1	3303.1	3249.9	3194.9	3158.8
7669.9	25°	6587.3	5466.6	4042.0	3588.0	3403.8	3287.9	3191.1	3122.7	3046.7	3008.7
8097.3	27.5°	6874.1	5605.3	3994.5	3517.8	3308.8	3179.7	3063.8	2982.1	2908.0	2872.0
8528.5	30°	7170.4	5721.1	3920.4	3415.2	3196.8	3054.3	2927.0	2856.8	2790.3	2756.1
8984.4	32.5°	7464.8	5827.5	3816.0	3287.9	3067.6	2930.8	2805.5	2740.9	2701.0	2701.0
9474.4	35°	7776.3	5901.6	3677.3	3139.8	2930.8	2799.8	2701.0	2663.0	2659.2	2636.4
9993.0	37.5°	8104.9	5949.1	3508.3	2987.8	2796.0	2672.5	2642.1	2596.5	2558.5	2509.2
10562.8	40°	8450.6	5996.5	3305.0	2830.2	2653.5	2585.1	2571.8	2511.1	2402.8	2281.2
11208.6	42.5°	8870.4	6028.8	3094.2	2672.5	2503.5	2480.7	2499.7	2395.2	2222.3	2131.2
11987.4	45°	9356.7	6082.0	2900.4	2516.8	2349.6	2349.6	2429.4	2292.6	2150.2	2093.2
12876.3	47.5°	9987.3	6205.5	2720.0	2345.8	2207.2	2245.1	2273.6	2169.2	2089.4	2019.1
13959.0	50°	10899.0	6501.8	2533.9	2173.0	2098.9	2174.9	2135.0	2074.2	1981.1	1924.1
15679.9	52.5°	12031.1	6676.5	2368.6	2017.2	2005.8	2081.8	2024.8	1967.8	1897.5	1821.6
16984.8	55°	12802.2	6708.8	2229.9	1903.2	1943.1	1935.5	1914.6	1863.4	1825.4	1724.7
18272.6	57.5°	13664.6	6773.4	2116.0	1834.9	1903.2	1819.7	1812.1	1768.4	1719.0	1650.6
19843.5	60°	14696.0	6874.1	2017.2	1808.3	1869.1	1743.7	1705.7	1688.6	1639.2	1605.0
21733.4	62.5°	15820.5	6965.3	1916.5	1812.1	1829.2	1669.6	1612.6	1606.9	1576.5	1565.1
23507.5	65°	16587.8	6716.4	1791.2	1808.3	1766.5	1593.6	1521.5	1519.6	1494.9	1491.1
24276.8	67.5°	16320.0	5928.2	1622.1	1755.1	1701.9	1517.7	1437.9	1430.3	1398.0	1399.9
23473.3	70°	14979.0	4803.7	1388.5	1624.0	1622.1	1449.3	1350.5	1325.8	1282.1	1289.7
20409.5	72.5°	12464.1	3559.6	1075.1	1405.6	1494.9	1386.6	1249.8	1209.9	1154.9	1162.5
15066.4	75°	9001.5	2419.9	782.6	1069.4	1301.1	1312.5	1151.1	1082.7	1016.2	1027.6
8386.0	77.5°	4606.1	1371.4	575.5	737.0	1021.9	1192.8	1061.8	970.6	955.4	1061.8
2418.0	80°	1502.5	687.6	398.9	516.6	670.5	976.3	930.7	826.3	822.5	847.2
507.2	82.5°	448.3	290.6	256.4	340.0	370.4	748.4	803.5	624.9	537.5	566.0
169.1	85°	153.9	140.6	146.3	169.1	176.6	438.8	562.2	414.1	391.3	431.2
38.0	87.5°	36.1	49.4	41.8	38.0	38.0	106.4	218.4	172.8	239.3	159.6
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>
4317.4
3413.3
3101.8
3143.6
3249.9
3341.1
3392.4
3384.8
3301.2
3160.7
3008.7
2870.1
2754.2
2702.9
2630.7
2501.6
2264.1
2133.1
2102.7
2017.2
1918.4
1806.4
1726.6
1627.8
1614.5
1565.1
1489.2
1399.9
1297.3
1160.6
1031.4
1046.6
727.5
585.0
425.5
153.9
0.0

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