

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: P954924

Luminaire Tested: **GALN-SB8A-740-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954924
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-SB8A-740-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39087 lumens
Efficiency: N/A
Efficacy: 172.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

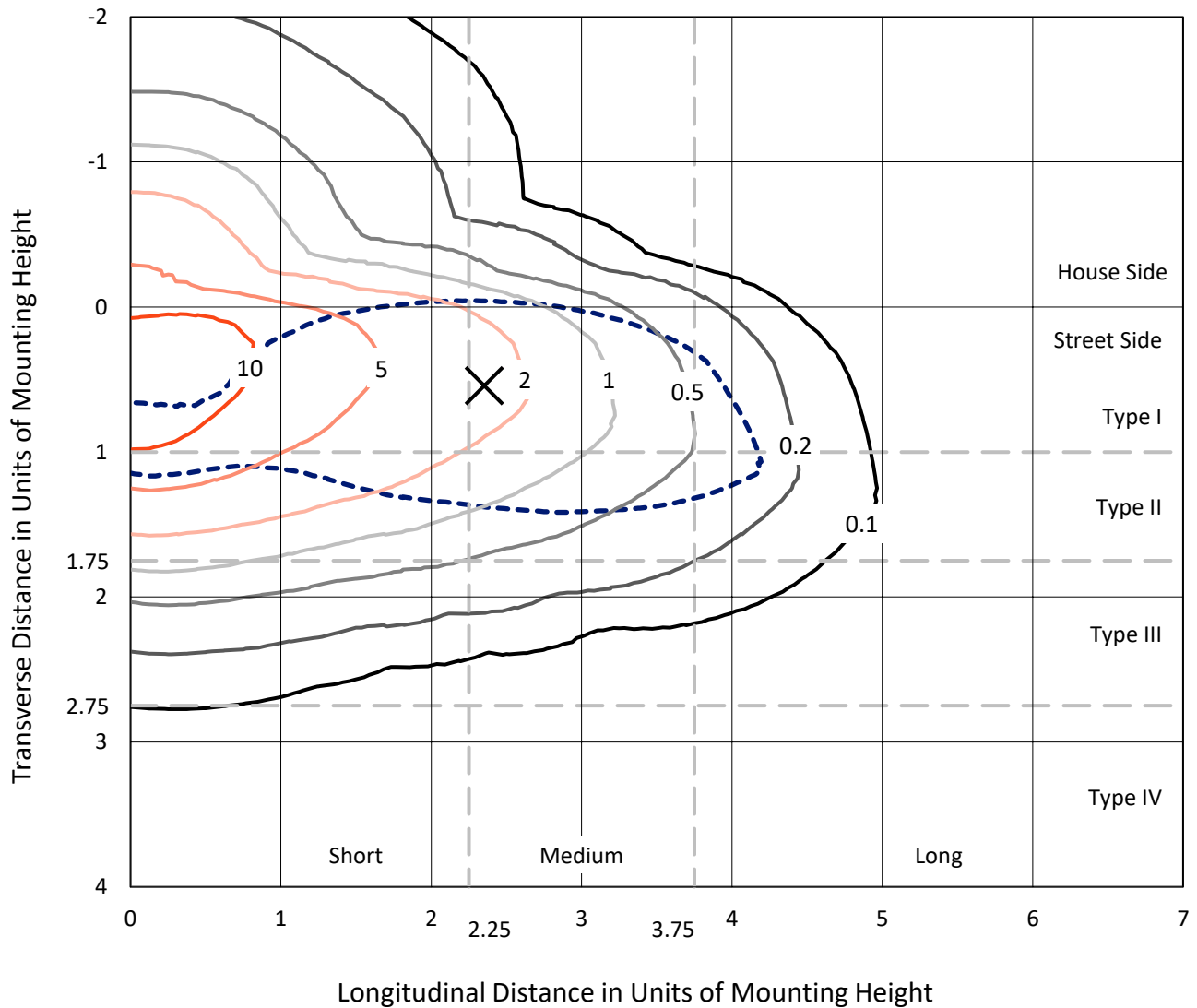
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

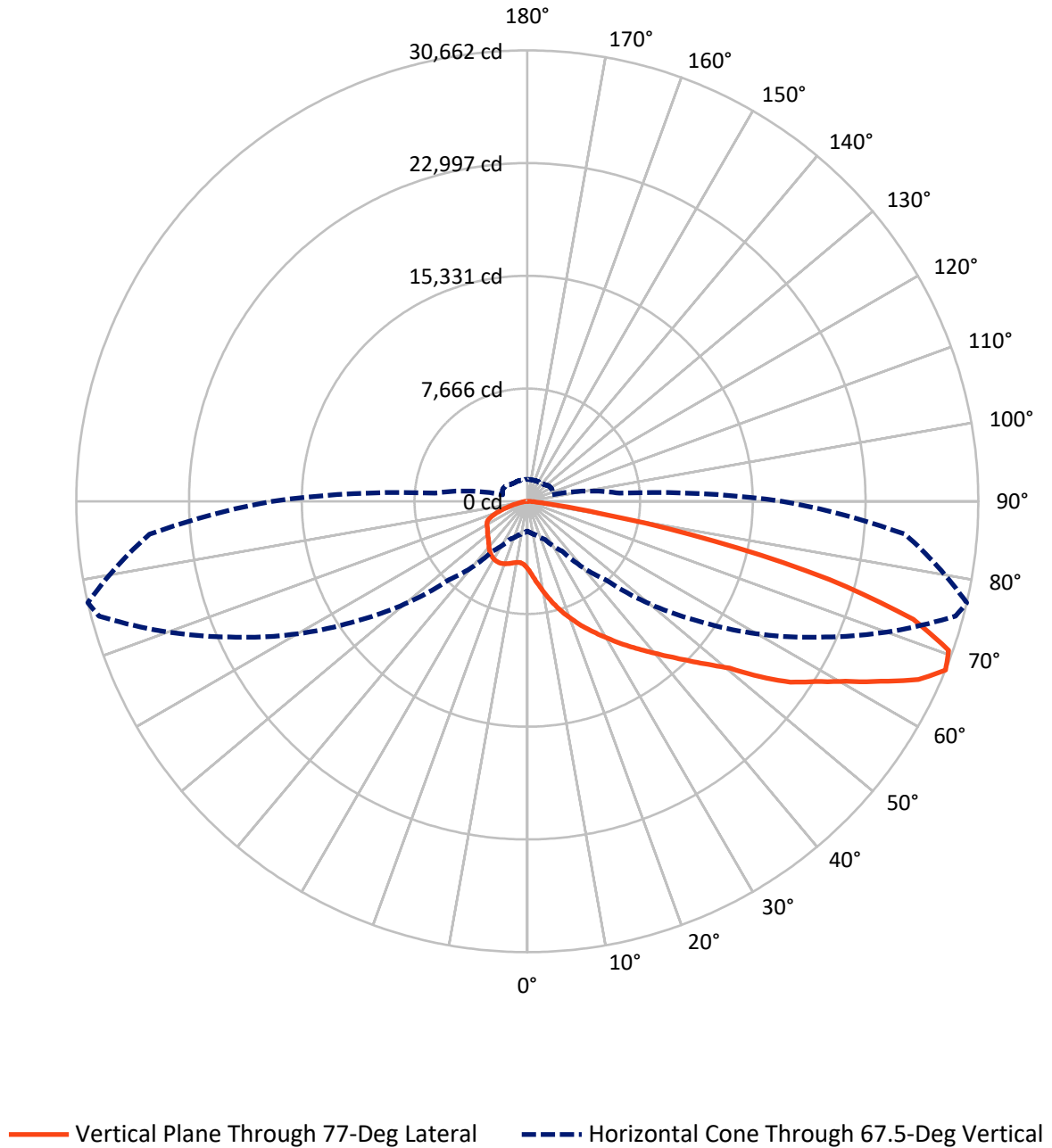
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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	7393.7	0.0	7393.7
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	31693.3	0.0	31693.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	39087.0	0.0	39087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.6	1.3
10°-20°	1766.0	4.5
20°-30°	3334.4	8.5
30°-40°	5371.7	13.7
40°-50°	7347.5	18.8
50°-60°	8288.0	21.2
60°-70°	7735.8	19.8
70°-80°	4240.5	10.8
80°-90°	511.5	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°	39087.0	100.0
0°-180°	39087.0	100.0

Coefficient of Utilization



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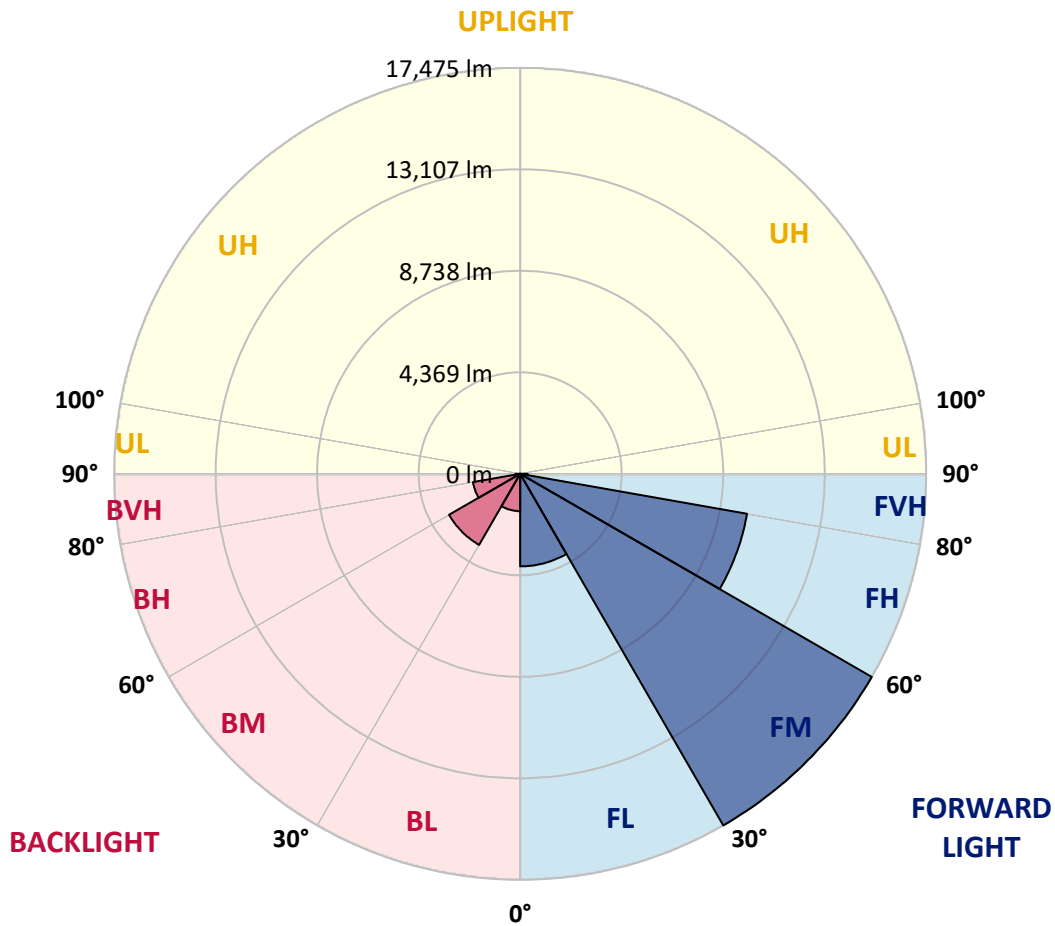
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3984.4	10.2			
FM (30°-60°)	17475.4	44.7			
FH (60°-80°)	9913.6	25.4			G4/12000
FVH (80°-90°)	319.9	0.8			G3/500
BL (0°-30°)	1607.6	4.1	B3/2500		
BM (30°-60°)	3531.8	9.0	B3/5000		
BH (60°-80°)	2062.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	191.6	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4586.1	4586.1	4586.1	4586.1	4586.1	4586.1	4586.1	4586.1	4586.1	4586.1
2.5°	5742.2	5782.6	5732.1	5732.1	5562.7	5473.9	5304.4	5175.3	4943.2	4902.9
5°	6787.4	6837.8	6767.2	6736.9	6537.2	6353.6	6069.1	5788.6	5375.0	5332.7
7.5°	7596.5	7661.0	7598.5	7566.2	7388.6	7182.8	6849.9	6458.5	5875.4	5792.7
10°	8256.2	8266.3	8246.1	8258.2	8119.0	7949.5	7608.6	7152.6	6424.2	6311.2
12.5°	8629.5	8675.9	8716.2	8788.9	8764.7	8659.8	8353.1	7808.3	7005.3	6860.0
15°	8805.0	8885.7	8976.5	9144.0	9279.2	9305.4	9071.4	8512.5	7596.5	7420.9
17.5°	8867.6	8944.2	9087.5	9329.6	9620.2	9815.9	9711.0	9196.5	8181.6	7979.8
20°	9184.3	9206.5	9293.3	9523.3	9838.1	10162.9	10241.6	9854.2	8760.6	8532.6
22.5°	9862.3	9817.9	9842.1	9947.0	10173.0	10487.7	10667.3	10435.3	9355.8	9093.6
25°	10982.1	10852.9	10723.8	10602.8	10717.8	10895.3	11099.1	11016.4	9979.3	9646.4
27.5°	12396.4	12239.1	11954.6	11557.1	11417.9	11480.4	11571.2	11555.1	10556.3	10219.4
30°	13788.6	13605.0	13266.1	12691.0	12323.8	12158.4	12089.8	12043.4	11183.8	10824.7
32.5°	14900.3	14755.1	14422.2	13778.5	13245.9	12963.4	12735.4	12570.0	11839.6	11480.4
35°	15872.9	15737.7	15356.3	14654.2	14075.1	13774.5	13475.9	13122.8	12521.5	12158.4
37.5°	16760.6	16625.4	16102.9	15372.5	14789.4	14581.6	14315.2	13716.0	13205.5	12862.5
40°	17321.5	17291.3	16803.0	15975.8	15370.5	15267.6	15178.8	14404.0	13964.2	13645.4
42.5°	17464.8	17531.4	17144.0	16464.0	15887.0	15804.3	16012.1	15182.8	14815.6	14510.9
45°	17119.8	17311.4	17057.2	16595.2	16254.2	16209.8	16750.5	16034.3	15757.8	15479.4
47.5°	16246.1	16571.0	16466.0	16401.5	16353.1	16544.7	17400.2	16938.2	16825.2	16583.1
50°	14482.7	15098.1	15281.7	15689.2	16157.3	16805.0	17991.4	17924.8	18072.1	17828.0
52.5°	11434.0	12281.4	13346.8	14367.7	15556.1	16718.3	18641.1	19341.2	19962.6	19829.5
55°	9438.6	9819.9	10639.1	12511.5	14389.9	16353.1	18933.6	20485.2	21839.0	21720.0
57.5°	7905.2	8246.1	8750.5	10314.2	12626.5	15523.8	19115.2	21183.3	23124.3	23112.2
60°	6260.8	6621.9	7138.4	8246.1	10566.4	14091.3	19074.9	21978.3	24764.6	24865.5
62.5°	4404.5	4802.0	5375.0	6408.1	8462.0	12235.0	18251.7	22553.3	26695.5	26969.9
65°	2895.3	3157.6	3589.4	4481.2	6305.2	9848.2	16679.9	22627.9	28761.6	29225.7
67.5°	2029.8	2130.6	2384.9	2869.1	4156.4	7552.1	14176.0	21855.2	30139.7	30662.2
70°	1583.9	1634.3	1763.4	1957.1	2610.8	5078.4	10863.0	19845.6	29845.1	30389.9
72.5°	1368.0	1416.4	1464.8	1489.0	1751.3	3135.4	7358.4	16593.2	27070.8	27440.0
75°	1240.9	1253.0	1293.3	1285.2	1335.7	2033.8	4247.2	12089.8	21358.8	21231.7
77.5°	1043.1	1059.3	1125.8	1115.8	1186.4	1390.2	2205.3	7802.3	13847.1	12983.6
80°	883.7	891.8	964.4	952.3	1031.0	1006.8	1125.8	3976.8	5873.4	4975.5
82.5°	306.7	379.3	736.4	758.6	786.9	609.3	649.7	1622.2	1793.7	1374.0
85°	149.3	159.4	375.3	532.7	530.6	306.7	316.8	579.1	564.9	443.9
87.5°	24.2	30.3	44.4	207.8	165.4	80.7	109.0	113.0	117.0	100.9
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°
4586.1	0°	4586.1	4586.1	4586.1	4586.1	4586.1	4586.1	4586.1	4586.1	4586.1	4586.1
4749.5	2.5°	4636.6	4535.7	4323.8	4128.1	3974.8	3827.5	3744.8	3674.1	3633.8	3625.7
4971.5	5°	4761.7	4553.8	4168.5	3843.6	3631.8	3474.4	3391.7	3339.2	3313.0	3296.8
5270.1	7.5°	4941.2	4636.6	4087.8	3718.5	3496.6	3383.6	3341.2	3333.2	3331.1	3333.2
5631.3	10°	5189.4	4771.7	4079.7	3688.3	3502.6	3440.1	3438.1	3440.1	3448.2	3450.2
6024.7	12.5°	5457.7	4911.0	4112.0	3714.5	3579.3	3545.0	3539.0	3536.9	3543.0	3547.0
6422.2	15°	5750.3	5094.6	4166.4	3771.0	3664.1	3627.7	3621.7	3609.6	3607.6	3605.5
6839.8	17.5°	6050.9	5276.2	4227.0	3831.5	3718.5	3668.1	3645.9	3617.6	3595.5	3589.4
7271.6	20°	6355.6	5455.7	4269.3	3861.8	3722.6	3651.9	3607.6	3559.1	3520.8	3498.6
7707.4	22.5°	6680.4	5643.4	4295.6	3853.7	3686.2	3589.4	3508.7	3452.2	3393.7	3355.4
8147.3	25°	6997.2	5806.8	4293.6	3811.3	3615.6	3492.6	3389.7	3317.0	3236.3	3196.0
8601.2	27.5°	7301.9	5954.1	4243.1	3736.7	3514.7	3377.5	3254.5	3167.7	3089.0	3050.7
9059.3	30°	7616.6	6077.2	4164.4	3627.7	3395.7	3244.4	3109.2	3034.5	2963.9	2927.6
9543.5	32.5°	7929.4	6190.2	4053.5	3492.6	3258.5	3113.2	2980.1	2911.5	2869.1	2869.1
10064.0	35°	8260.3	6268.8	3906.2	3335.2	3113.2	2974.0	2869.1	2828.7	2824.7	2800.5
10614.9	37.5°	8609.3	6319.3	3726.6	3173.8	2970.0	2838.8	2806.6	2758.1	2717.8	2665.3
11220.2	40°	8976.5	6369.7	3510.7	3006.3	2818.7	2746.0	2731.9	2667.3	2552.3	2423.2
11906.2	42.5°	9422.4	6404.0	3286.8	2838.8	2659.3	2635.1	2655.2	2544.3	2360.7	2263.8
12733.4	45°	9938.9	6460.5	3081.0	2673.4	2495.8	2495.8	2580.6	2435.3	2284.0	2223.5
13677.7	47.5°	10608.8	6591.7	2889.3	2491.8	2344.5	2384.9	2415.1	2304.2	2219.4	2144.8
14827.7	50°	11577.3	6906.4	2691.5	2308.2	2229.5	2310.2	2267.8	2203.3	2104.4	2043.9
16655.7	52.5°	12779.8	7092.0	2516.0	2142.7	2130.6	2211.3	2150.8	2090.3	2015.6	1934.9
18041.8	55°	13599.0	7126.3	2368.7	2021.7	2064.1	2056.0	2033.8	1979.3	1939.0	1832.0
19409.8	57.5°	14515.0	7194.9	2247.7	1949.1	2021.7	1932.9	1924.8	1878.4	1826.0	1753.3
21078.4	60°	15610.6	7301.9	2142.7	1920.8	1985.4	1852.2	1811.9	1793.7	1741.2	1704.9
23086.0	62.5°	16805.0	7398.7	2035.8	1924.8	1943.0	1773.5	1713.0	1706.9	1674.6	1662.5
24970.4	65°	17620.1	7134.4	1902.6	1920.8	1876.4	1692.8	1616.1	1614.1	1587.9	1583.9
25787.6	67.5°	17335.7	6297.1	1723.1	1864.3	1807.8	1612.1	1527.4	1519.3	1485.0	1487.0
24934.1	70°	15911.2	5102.6	1474.9	1725.1	1723.1	1539.5	1434.5	1408.3	1361.9	1370.0
21679.7	72.5°	13239.8	3781.1	1142.0	1493.1	1587.9	1472.9	1327.6	1285.2	1226.7	1234.8
16004.0	75°	9561.6	2570.5	831.3	1135.9	1382.1	1394.2	1222.7	1150.1	1079.4	1091.5
8907.9	77.5°	4892.8	1456.7	611.3	782.8	1085.5	1267.1	1127.9	1031.0	1014.9	1127.9
2568.5	80°	1596.0	730.4	423.7	548.8	712.2	1037.1	988.6	877.7	873.6	899.9
538.7	82.5°	476.2	308.7	272.4	361.2	393.4	795.0	853.5	663.8	571.0	601.3
179.6	85°	163.4	149.3	155.4	179.6	187.6	466.1	597.2	439.8	415.6	458.0
40.4	87.5°	38.3	52.5	44.4	40.4	40.4	113.0	232.0	183.6	254.2	169.5
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>
4586.1
3625.7
3294.8
3339.2
3452.2
3549.0
3603.5
3595.5
3506.7
3357.4
3196.0
3048.7
2925.6
2871.1
2794.4
2657.2
2405.0
2265.8
2233.5
2142.7
2037.8
1918.8
1834.0
1729.1
1715.0
1662.5
1581.8
1487.0
1378.1
1232.8
1095.6
1111.7
772.8
621.4
452.0
163.4
0.0

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