

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: P951396

Luminaire Tested: **GALN-SB5C-760-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951396
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-SB5C-760-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40766 lumens
Efficiency: N/A
Efficacy: 163.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

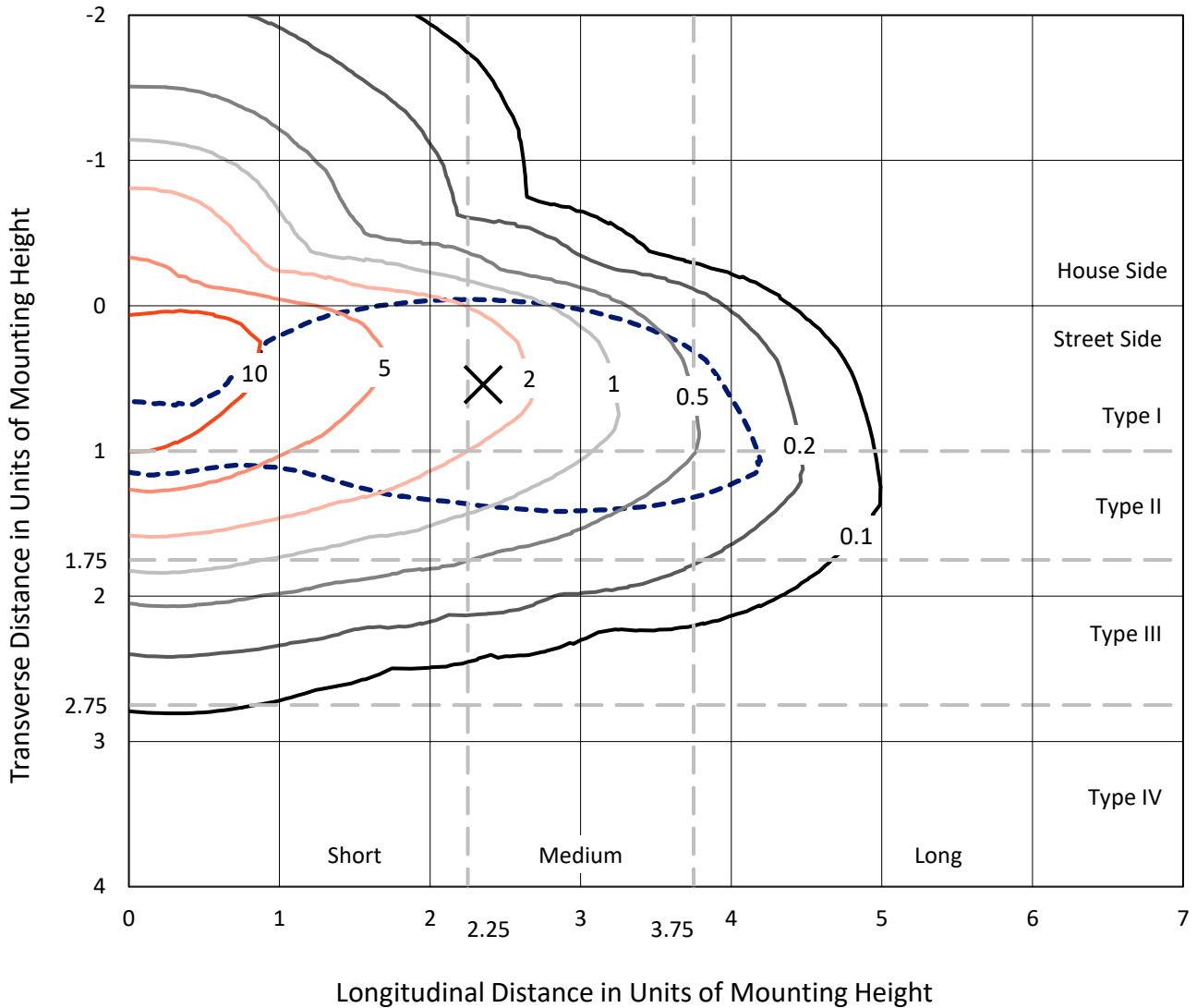
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

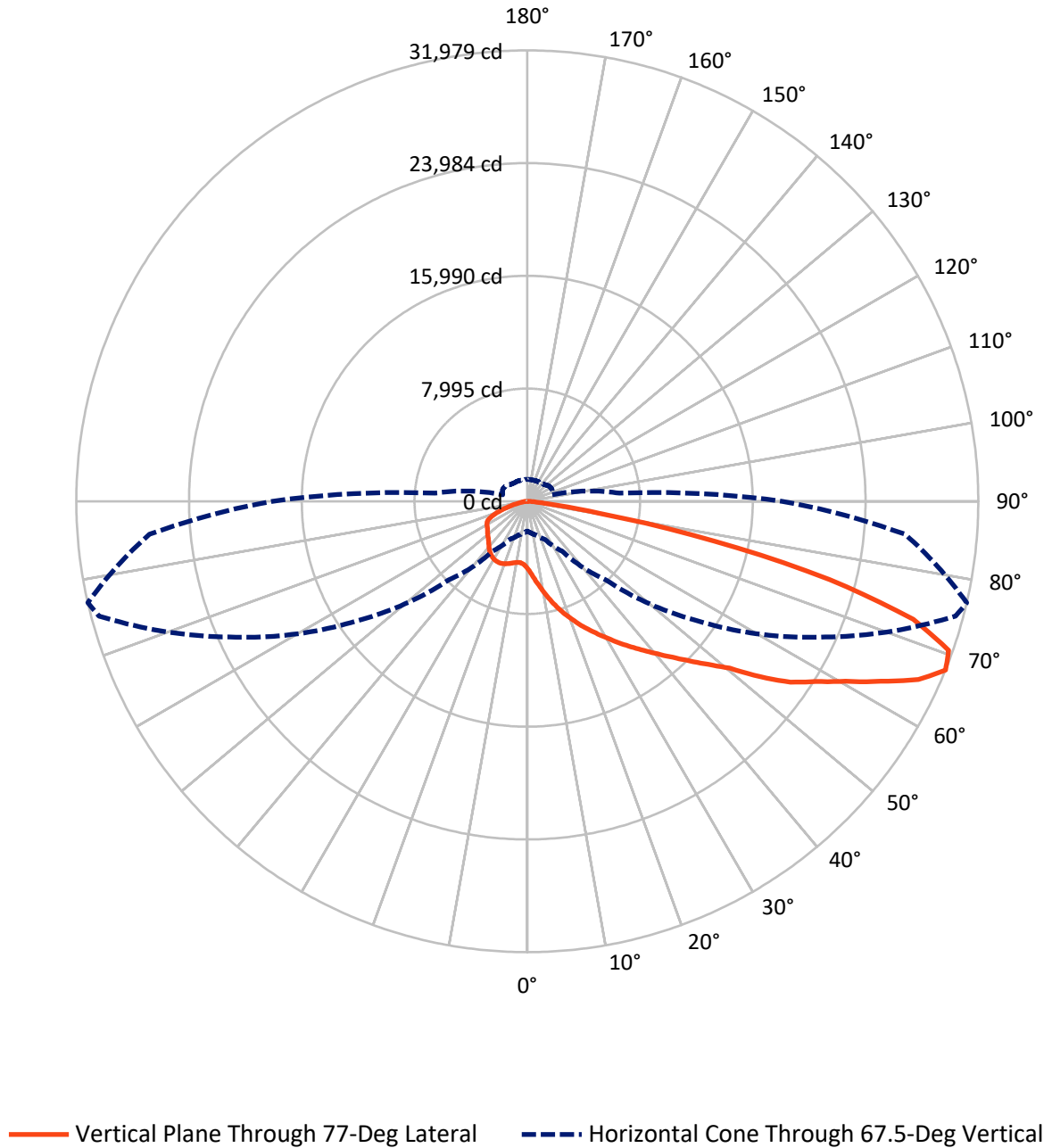
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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	7711.3	0.0	7711.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	33054.7	0.0	33054.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	40766.0	0.0	40766.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.7	1.3
10°-20°	1841.9	4.5
20°-30°	3477.6	8.5
30°-40°	5602.4	13.7
40°-50°	7663.1	18.8
50°-60°	8644.0	21.2
60°-70°	8068.1	19.8
70°-80°	4422.7	10.8
80°-90°	533.5	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°	40766.0	100.0
0°-180°	40766.0	100.0



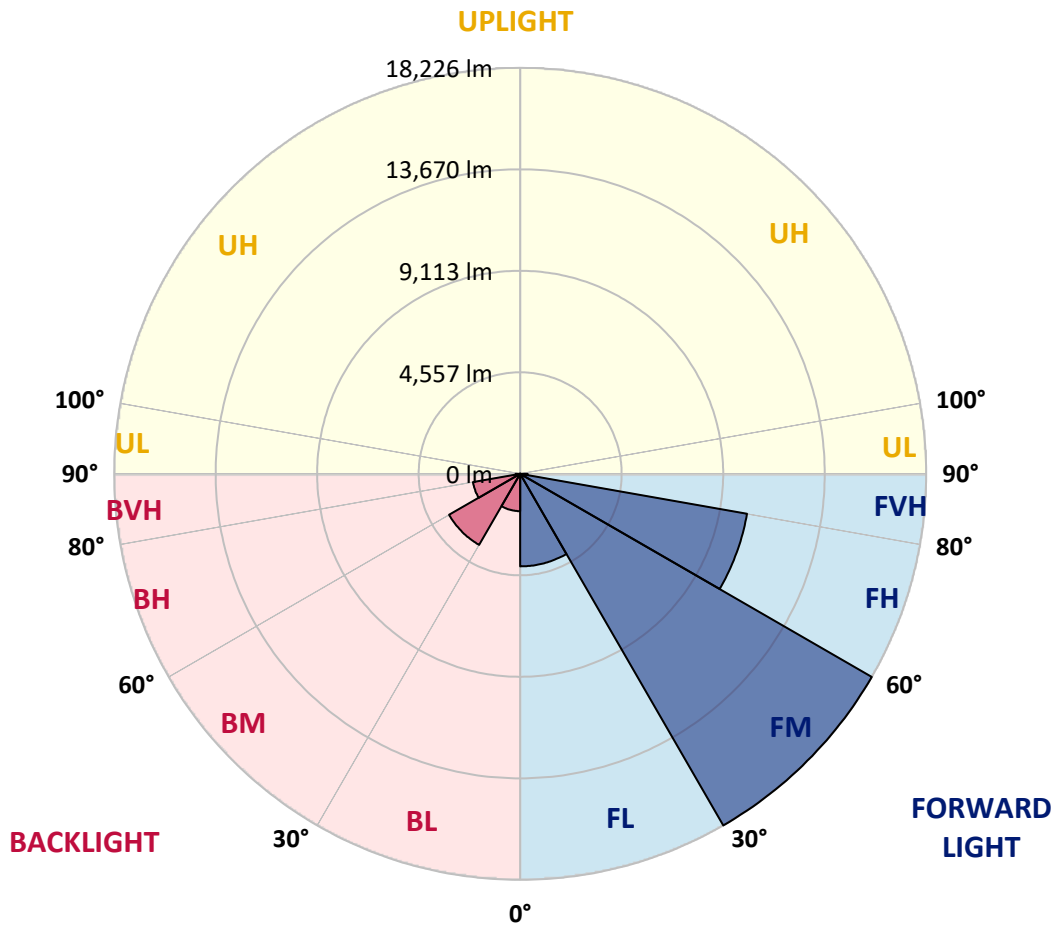
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4155.6	10.2			
FM (30°-60°)	18226.0	44.7			
FH (60°-80°)	10339.5	25.4			G4/12000
FVH (80°-90°)	333.6	0.8			G3/500
BL (0°-30°)	1676.6	4.1	B3/2500		
BM (30°-60°)	3683.5	9.0	B3/5000		
BH (60°-80°)	2151.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	199.9	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°	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1
2.5°	5988.9	6031.0	5978.4	5978.4	5801.6	5709.0	5532.3	5397.6	5155.6	5113.5
5°	7078.9	7131.5	7057.9	7026.3	6818.0	6626.5	6329.8	6037.3	5605.9	5561.7
7.5°	7922.8	7990.1	7924.9	7891.2	7706.0	7491.4	7144.2	6735.9	6127.8	6041.5
10°	8610.9	8621.4	8600.4	8613.0	8467.8	8291.0	7935.4	7459.8	6700.2	6582.3
12.5°	9000.2	9048.6	9090.7	9166.4	9141.2	9031.7	8711.9	8143.7	7306.2	7154.7
15°	9183.3	9267.4	9362.1	9536.8	9677.8	9705.1	9461.0	8878.1	7922.8	7739.7
17.5°	9248.5	9328.4	9477.9	9730.4	10033.4	10237.5	10128.1	9591.5	8533.0	8322.6
20°	9578.9	9602.0	9692.5	9932.4	10260.7	10599.5	10681.5	10277.5	9137.0	8899.2
22.5°	10285.9	10239.6	10264.9	10374.3	10610.0	10938.3	11125.5	10883.5	9757.7	9484.2
25°	11453.8	11319.1	11184.5	11058.2	11178.1	11363.3	11575.9	11489.6	10408.0	10060.8
27.5°	12928.9	12764.8	12468.1	12053.5	11908.3	11973.6	12068.3	12051.4	11009.8	10658.4
30°	14380.9	14189.4	13835.9	13236.2	12853.2	12680.6	12609.1	12560.7	11664.2	11289.7
32.5°	15540.4	15388.9	15041.7	14370.4	13814.9	13520.3	13282.5	13109.9	12348.1	11973.6
35°	16554.7	16413.7	16016.0	15283.7	14679.7	14366.2	14054.8	13686.5	13059.4	12680.6
37.5°	17480.6	17339.6	16794.6	16032.8	15424.7	15207.9	14930.1	14305.2	13772.8	13415.0
40°	18065.6	18034.0	17524.8	16662.0	16030.7	15923.4	15830.8	15022.7	14564.0	14231.5
42.5°	18215.0	18284.4	17880.4	17171.2	16569.4	16483.1	16699.9	15835.0	15452.0	15134.3
45°	17855.2	18055.1	17789.9	17308.0	16952.4	16906.1	17470.1	16723.0	16434.7	16144.3
47.5°	16944.0	17282.8	17173.4	17106.0	17055.5	17255.4	18147.7	17665.8	17547.9	17295.4
50°	15104.8	15746.6	15938.1	16363.2	16851.4	17526.9	18764.2	18694.8	18848.4	18593.8
52.5°	11925.2	12809.0	13920.1	14984.9	16224.3	17436.4	19441.8	20172.0	20820.1	20681.3
55°	9844.0	10241.7	11096.1	13048.9	15008.0	17055.5	19746.9	21365.2	22777.2	22653.0
57.5°	8244.7	8600.4	9126.4	10757.3	13168.8	16190.6	19936.3	22093.3	24117.6	24105.0
60°	6529.7	6906.4	7445.1	8600.4	11020.3	14696.6	19894.2	22922.4	25828.4	25933.6
62.5°	4593.7	5008.3	5605.9	6683.3	8825.5	12760.6	19035.7	23522.1	27842.3	28128.4
65°	3019.7	3293.3	3743.6	4673.7	6576.0	10271.2	17396.4	23599.9	29997.1	30481.1
67.5°	2116.9	2222.2	2487.3	2992.3	4334.9	7876.5	14784.9	22794.0	31434.3	31979.3
70°	1651.9	1704.5	1839.2	2041.2	2723.0	5296.6	11329.7	20698.1	31127.1	31695.3
72.5°	1426.7	1477.2	1527.7	1553.0	1826.5	3270.1	7674.5	17305.9	28233.7	28618.7
75°	1294.2	1306.8	1348.9	1340.5	1393.1	2121.2	4429.6	12609.1	22276.3	22143.8
77.5°	1087.9	1104.8	1174.2	1163.7	1237.3	1449.9	2300.0	8137.4	14441.9	13541.3
80°	921.7	930.1	1005.9	993.2	1075.3	1050.1	1174.2	4147.6	6125.7	5189.3
82.5°	319.9	395.6	768.1	791.2	820.7	635.5	677.6	1691.9	1870.7	1433.0
85°	155.7	166.2	391.4	555.5	553.4	319.9	330.4	603.9	589.2	463.0
87.5°	25.3	31.6	46.3	216.7	172.6	84.2	113.6	117.8	122.1	105.2
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°
4783.1	0°	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1
4953.6	2.5°	4835.7	4730.5	4509.6	4305.4	4145.5	3991.9	3905.6	3832.0	3789.9	3781.5
5185.0	5°	4966.2	4749.4	4347.5	4008.7	3787.8	3623.6	3537.4	3482.6	3455.3	3438.5
5496.5	7.5°	5153.5	4835.7	4263.4	3878.3	3646.8	3528.9	3484.8	3476.3	3474.2	3476.3
5873.2	10°	5412.3	4976.7	4254.9	3846.7	3653.1	3587.9	3585.8	3587.9	3596.3	3598.4
6283.5	12.5°	5692.2	5121.9	4288.6	3874.1	3733.1	3697.3	3691.0	3688.9	3695.2	3699.4
6698.0	15°	5997.3	5313.4	4345.4	3933.0	3821.4	3783.6	3777.3	3764.6	3762.5	3760.4
7133.6	17.5°	6310.9	5502.8	4408.5	3996.1	3878.3	3825.7	3802.5	3773.0	3749.9	3743.6
7584.0	20°	6628.6	5690.1	4452.7	4027.7	3882.5	3808.8	3762.5	3712.0	3672.0	3648.9
8038.5	22.5°	6967.4	5885.8	4480.1	4019.3	3844.6	3743.6	3659.4	3600.5	3539.5	3499.5
8497.2	25°	7297.8	6056.2	4478.0	3975.1	3770.9	3642.6	3535.3	3459.5	3375.3	3333.2
8970.7	27.5°	7615.5	6209.8	4425.4	3897.2	3665.7	3522.6	3394.3	3303.8	3221.7	3181.7
9448.4	30°	7943.8	6338.2	4343.3	3783.6	3541.6	3383.7	3242.8	3164.9	3091.2	3053.4
9953.4	32.5°	8270.0	6456.1	4227.6	3642.6	3398.5	3247.0	3108.1	3036.5	2992.3	2992.3
10496.3	35°	8615.1	6538.1	4074.0	3478.4	3247.0	3101.8	2992.3	2950.3	2946.0	2920.8
11070.8	37.5°	8979.1	6590.7	3886.7	3310.1	3097.6	2960.8	2927.1	2876.6	2834.5	2779.8
11702.1	40°	9362.1	6643.3	3661.5	3135.4	2939.7	2864.0	2849.2	2781.9	2662.0	2527.3
12417.6	42.5°	9827.2	6679.1	3427.9	2960.8	2773.5	2748.2	2769.3	2653.5	2462.1	2361.0
13280.4	45°	10365.9	6738.0	3213.3	2788.2	2603.0	2603.0	2691.4	2539.9	2382.1	2319.0
14265.2	47.5°	11064.5	6874.8	3013.4	2598.8	2445.2	2487.3	2518.9	2403.1	2314.8	2236.9
15464.6	50°	12074.6	7203.1	2807.2	2407.3	2325.3	2409.4	2365.3	2297.9	2194.8	2131.7
17371.2	52.5°	13328.8	7396.7	2624.1	2234.8	2222.2	2306.3	2243.2	2180.1	2102.2	2018.0
18816.8	55°	14183.1	7432.5	2470.5	2108.5	2152.7	2144.3	2121.2	2064.3	2022.3	1910.7
20243.6	57.5°	15138.5	7504.0	2344.2	2032.8	2108.5	2015.9	2007.5	1959.1	1904.4	1828.7
21983.8	60°	16281.1	7615.5	2234.8	2003.3	2070.7	1931.8	1889.7	1870.7	1816.0	1778.2
24077.6	62.5°	17526.9	7716.5	2123.3	2007.5	2026.5	1849.7	1786.6	1780.3	1746.6	1734.0
26043.1	65°	18377.0	7440.9	1984.4	2003.3	1957.0	1765.5	1685.6	1683.5	1656.1	1651.9
26895.3	67.5°	18080.3	6567.6	1797.1	1944.4	1885.5	1681.4	1593.0	1584.6	1548.8	1550.9
26005.2	70°	16594.7	5321.8	1538.3	1799.2	1797.1	1605.6	1496.2	1468.8	1420.4	1428.8
22610.9	72.5°	13808.5	3943.5	1191.0	1557.2	1656.1	1536.2	1384.6	1340.5	1279.4	1287.8
16691.5	75°	9972.4	2680.9	867.0	1184.7	1441.5	1454.1	1275.2	1199.5	1125.8	1138.4
9290.6	77.5°	5103.0	1519.3	637.6	816.5	1132.1	1321.5	1176.3	1075.3	1058.5	1176.3
2678.8	80°	1664.5	761.8	441.9	572.4	742.8	1081.6	1031.1	915.4	911.2	938.5
561.9	82.5°	496.6	322.0	284.1	376.7	410.3	829.1	890.1	692.3	595.5	627.1
187.3	85°	170.4	155.7	162.0	187.3	195.7	486.1	622.9	458.7	433.5	477.7
42.1	87.5°	40.0	54.7	46.3	42.1	42.1	117.8	242.0	191.5	265.1	176.8
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°
4783.1
3781.5
3436.4
3482.6
3600.5
3701.5
3758.3
3749.9
3657.3
3501.6
3333.2
3179.6
3051.3
2994.4
2914.5
2771.4
2508.3
2363.2
2329.5
2234.8
2125.4
2001.2
1912.8
1803.4
1788.7
1734.0
1649.8
1550.9
1437.3
1285.7
1142.6
1159.5
806.0
648.1
471.4
170.4
0.0

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