

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: P951837

Luminaire Tested: **GALN-SB5D-840-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951837
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-SB5D-840-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50081 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

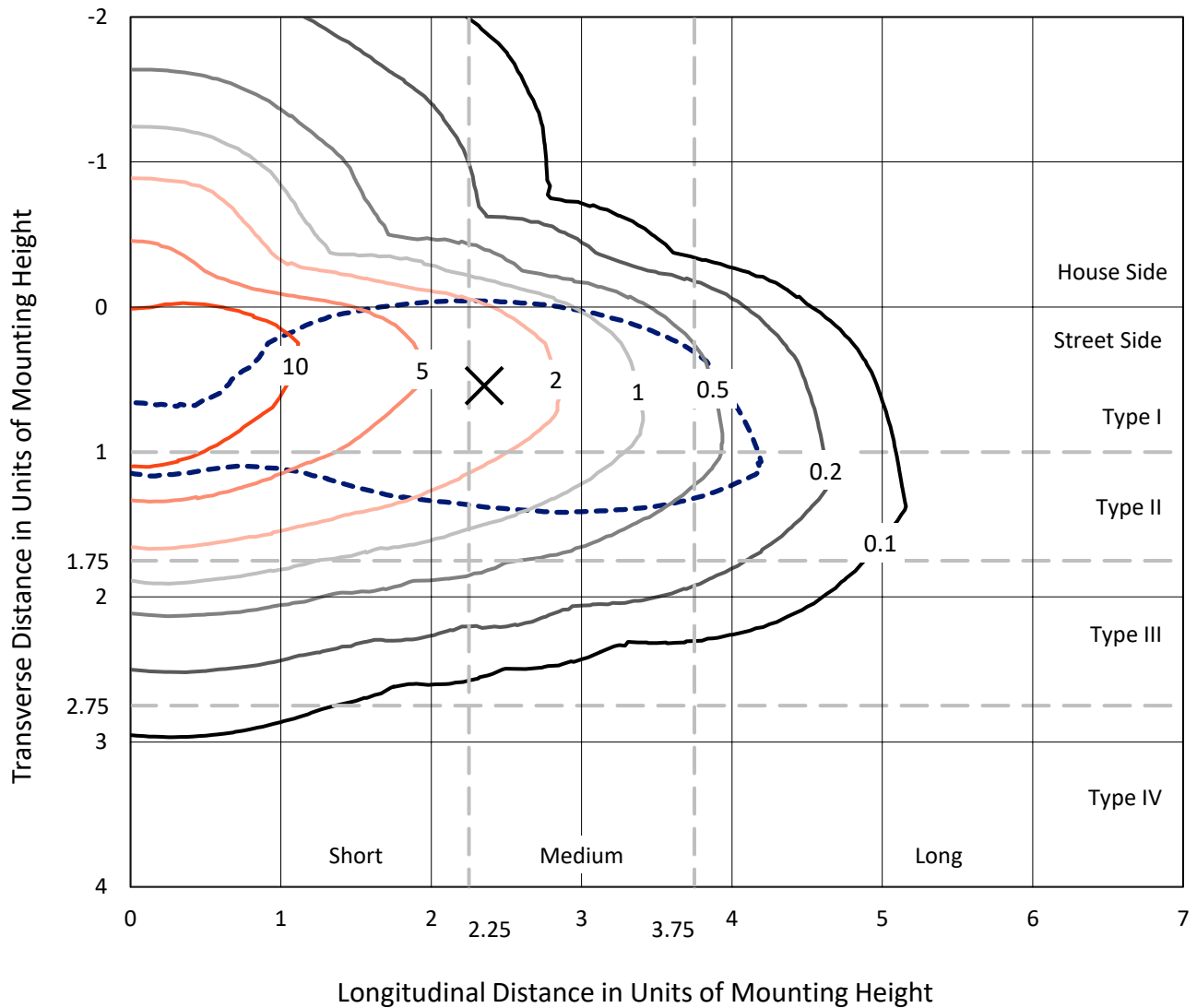
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

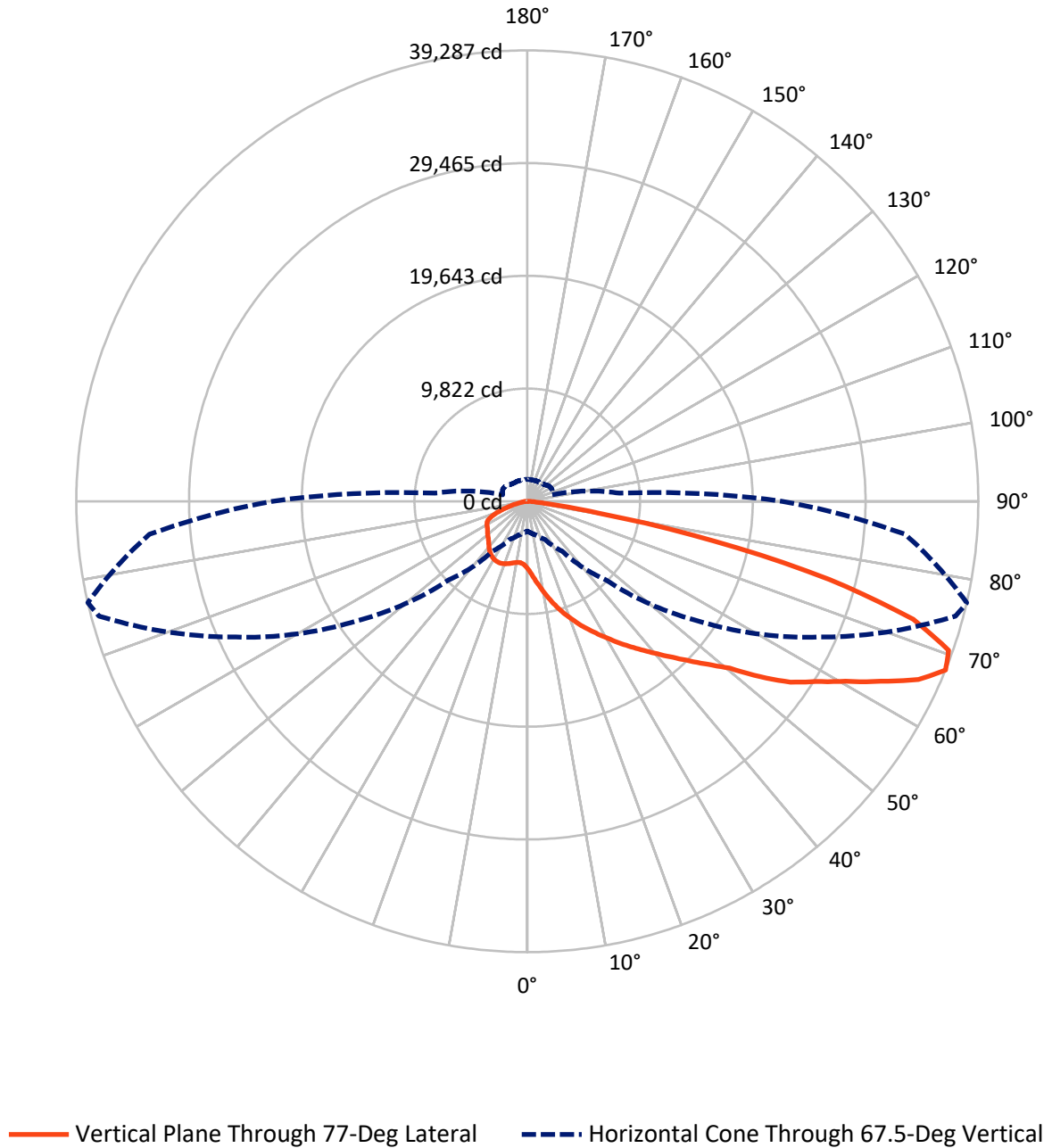
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 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	9473.3	0.0	9473.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	40607.7	0.0	40607.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	50081.0	0.0	50081.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.8	1.3
10°-20°	2262.7	4.5
20°-30°	4272.3	8.5
30°-40°	6882.6	13.7
40°-50°	9414.1	18.8
50°-60°	10619.2	21.2
60°-70°	9911.7	19.8
70°-80°	5433.3	10.8
80°-90°	655.4	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°	50081.0	100.0
0°-180°	50081.0	100.0

Coefficient of Utilization

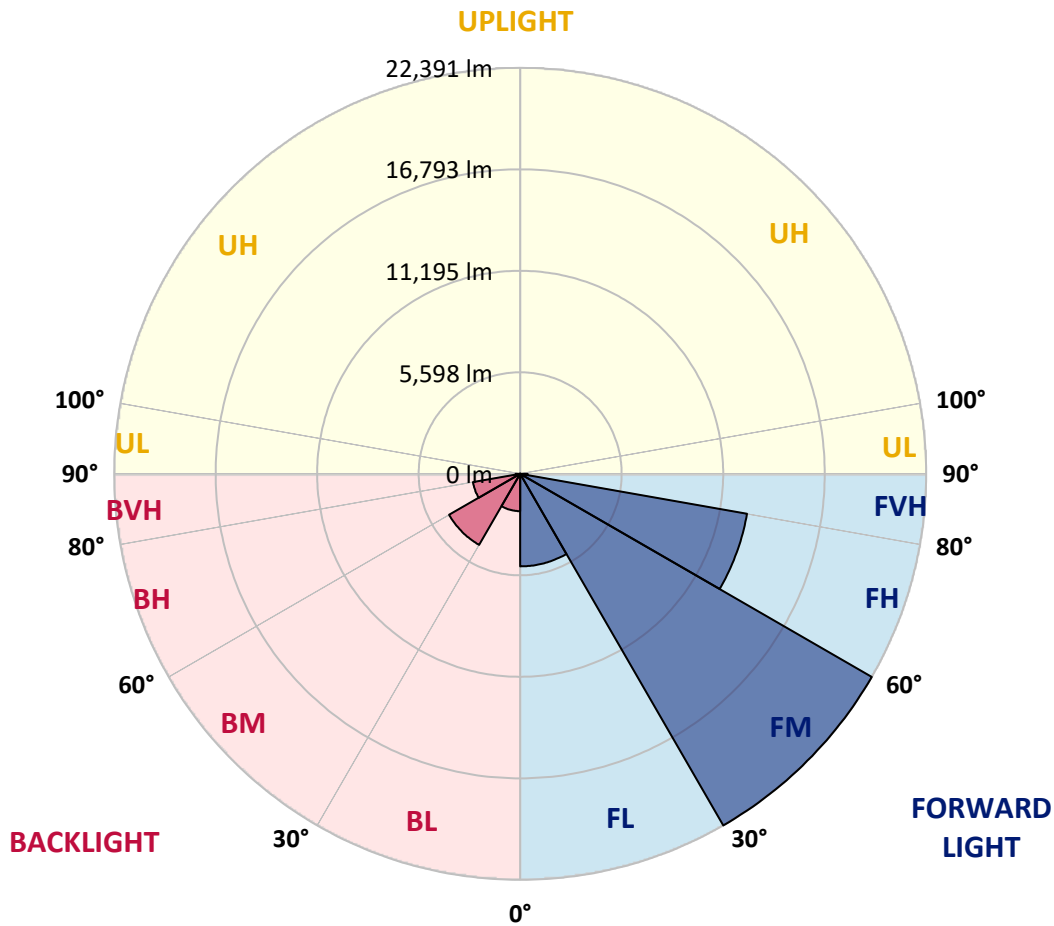


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5105.1	10.2			
FM (30°-60°)	22390.7	44.7			
FH (60°-80°)	12702.0	25.4			G5
FVH (80°-90°)	409.9	0.8			G3/500
BL (0°-30°)	2059.7	4.1	B3/2500		
BM (30°-60°)	4525.2	9.0	B3/5000		
BH (60°-80°)	2642.9	5.3	B4/5000		G4/5000
BVH (80°-90°)	245.5	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5876.1	5876.1	5876.1	5876.1	5876.1	5876.1	5876.1	5876.1	5876.1	5876.1
2.5°	7357.4	7409.1	7344.4	7344.4	7127.3	7013.5	6796.4	6630.9	6333.6	6281.9
5°	8696.5	8761.1	8670.6	8631.8	8375.9	8140.7	7776.1	7416.8	6886.9	6832.6
7.5°	9733.1	9815.8	9735.7	9694.3	9466.8	9203.2	8776.6	8275.1	7528.0	7422.0
10°	10578.5	10591.4	10565.5	10581.0	10402.7	10185.5	9748.6	9164.4	8231.1	8086.4
12.5°	11056.7	11116.2	11167.9	11260.9	11229.9	11095.5	10702.5	10004.5	8975.7	8789.5
15°	11281.6	11385.0	11501.4	11715.9	11889.1	11922.7	11622.9	10906.8	9733.1	9508.2
17.5°	11361.8	11460.0	11643.5	11953.8	12326.0	12576.8	12442.4	11783.1	10482.8	10224.3
20°	11767.6	11796.1	11907.2	12201.9	12605.2	13021.4	13122.2	12625.9	11224.7	10932.6
22.5°	12636.2	12579.4	12610.4	12744.8	13034.4	13437.6	13667.7	13370.4	11987.4	11651.3
25°	14071.0	13905.5	13740.1	13585.0	13732.3	13959.8	14220.9	14114.9	12786.2	12359.6
27.5°	15883.2	15681.5	15317.0	14807.8	14629.4	14709.5	14825.9	14805.2	13525.5	13093.8
30°	17666.9	17431.7	16997.4	16260.6	15790.1	15578.1	15490.2	15430.8	14329.5	13869.4
32.5°	19091.4	18905.2	18478.7	17654.0	16971.5	16609.6	16317.5	16105.5	15169.7	14709.5
35°	20337.4	20164.2	19675.6	18776.0	18034.0	17648.9	17266.2	16813.8	16043.5	15578.1
37.5°	21474.9	21301.7	20632.1	19696.3	18949.2	18682.9	18341.7	17573.9	16919.8	16480.4
40°	22193.6	22154.8	21529.2	20469.3	19693.7	19561.9	19448.1	18455.4	17891.9	17483.4
42.5°	22377.1	22462.4	21966.1	21094.9	20355.5	20249.5	20515.8	19453.3	18982.8	18592.4
45°	21935.0	22180.6	21854.9	21262.9	20826.0	20769.1	21462.0	20544.2	20190.1	19833.3
47.5°	20815.7	21231.9	21097.4	21014.7	20952.7	21198.3	22294.4	21702.4	21557.6	21247.4
50°	18556.2	19344.7	19580.0	20102.2	20701.9	21531.8	23051.8	22966.5	23155.2	22842.4
52.5°	14650.1	15735.8	17100.8	18408.9	19931.5	21420.6	23884.2	24781.3	25577.5	25406.9
55°	12093.4	12581.9	13631.5	16030.5	18437.3	20952.7	24259.1	26247.1	27981.7	27829.2
57.5°	10128.6	10565.5	11211.8	13215.3	16177.9	19890.2	24491.8	27141.5	29628.5	29612.9
60°	8021.7	8484.5	9146.3	10565.5	13538.5	18054.7	24440.1	28160.1	31730.2	31859.4
62.5°	5643.4	6152.7	6886.9	8210.5	10842.1	15676.4	23385.3	28896.9	34204.2	34555.8
65°	3709.7	4045.8	4599.0	5741.6	8078.6	12618.1	21371.5	28992.5	36851.4	37446.0
67.5°	2600.7	2729.9	3055.7	3676.1	5325.4	9676.2	18163.3	28002.4	38617.0	39286.6
70°	2029.3	2094.0	2259.4	2507.6	3345.2	6506.8	13918.5	25427.6	38239.6	38937.6
72.5°	1752.7	1814.8	1876.8	1907.8	2243.9	4017.3	9428.1	21260.3	34685.0	35158.1
75°	1589.9	1605.4	1657.1	1646.7	1711.4	2605.8	5441.8	15490.2	27366.5	27203.6
77.5°	1336.5	1357.2	1442.5	1429.6	1520.1	1781.2	2825.6	9996.8	17741.9	16635.5
80°	1132.3	1142.6	1235.7	1220.2	1321.0	1290.0	1442.5	5095.3	7525.4	6375.0
82.5°	392.9	486.0	943.6	972.0	1008.2	780.7	832.4	2078.5	2298.2	1760.5
85°	191.3	204.2	480.8	682.5	679.9	392.9	405.9	741.9	723.8	568.7
87.5°	31.0	38.8	56.9	266.3	212.0	103.4	139.6	144.8	149.9	129.3
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°
5876.1	0°	5876.1	5876.1	5876.1	5876.1	5876.1	5876.1	5876.1	5876.1	5876.1	5876.1
6085.5	2.5°	5940.7	5811.4	5540.0	5289.2	5092.8	4904.0	4798.0	4707.6	4655.9	4645.5
6369.8	5°	6101.0	5834.7	5340.9	4924.7	4653.3	4451.6	4345.6	4278.4	4244.8	4224.1
6752.4	7.5°	6331.0	5940.7	5237.5	4764.4	4480.1	4335.3	4281.0	4270.7	4268.1	4270.7
7215.2	10°	6649.0	6113.9	5227.2	4725.7	4487.8	4407.7	4405.1	4407.7	4418.0	4420.6
7719.3	12.5°	6992.8	6292.3	5268.5	4759.3	4586.1	4542.1	4534.4	4531.8	4539.5	4544.7
8228.5	15°	7367.7	6527.5	5338.3	4831.7	4694.6	4648.1	4640.4	4624.8	4622.3	4619.7
8763.7	17.5°	7752.9	6760.2	5415.9	4909.2	4764.4	4699.8	4671.4	4635.2	4606.7	4599.0
9316.9	20°	8143.2	6990.3	5470.2	4948.0	4769.6	4679.1	4622.3	4560.2	4511.1	4482.7
9875.3	22.5°	8559.4	7230.7	5503.8	4937.6	4723.1	4599.0	4495.6	4423.2	4348.2	4299.1
10438.9	25°	8965.3	7440.1	5501.2	4883.4	4632.6	4474.9	4343.1	4250.0	4146.6	4094.9
11020.5	27.5°	9355.7	7628.8	5436.6	4787.7	4503.3	4327.5	4169.9	4058.7	3957.9	3908.8
11607.3	30°	9759.0	7786.5	5335.8	4648.1	4350.8	4156.9	3983.7	3888.1	3797.6	3751.1
12227.8	32.5°	10159.7	7931.3	5193.6	4474.9	4175.0	3988.9	3818.3	3730.4	3676.1	3676.1
12894.8	35°	10583.6	8032.1	5004.9	4273.3	3988.9	3810.5	3676.1	3624.4	3619.2	3588.2
13600.5	37.5°	11030.9	8096.7	4774.8	4066.4	3805.3	3637.3	3596.0	3533.9	3482.2	3415.0
14376.0	40°	11501.4	8161.3	4498.2	3851.9	3611.5	3518.4	3500.3	3417.6	3270.2	3104.8
15255.0	42.5°	12072.7	8205.3	4211.2	3637.3	3407.2	3376.2	3402.1	3259.9	3024.6	2900.5
16314.9	45°	12734.5	8277.7	3947.5	3425.3	3197.8	3197.8	3306.4	3120.3	2926.4	2848.8
17524.8	47.5°	13592.7	8445.7	3701.9	3192.7	3004.0	3055.7	3094.4	2952.2	2843.7	2748.0
18998.3	50°	14833.6	8849.0	3448.6	2957.4	2856.6	2960.0	2905.7	2823.0	2696.3	2618.8
21340.5	52.5°	16374.4	9086.8	3223.7	2745.4	2729.9	2833.3	2755.8	2678.2	2582.6	2479.2
23116.5	55°	17423.9	9130.8	3035.0	2590.3	2644.6	2634.3	2605.8	2536.0	2484.3	2347.3
24869.2	57.5°	18597.6	9218.7	2879.9	2497.3	2590.3	2476.6	2466.2	2406.8	2339.6	2246.5
27007.1	60°	20001.3	9355.7	2745.4	2461.1	2543.8	2373.2	2321.5	2298.2	2231.0	2184.5
29579.3	62.5°	21531.8	9479.8	2608.4	2466.2	2489.5	2272.4	2194.8	2187.0	2145.7	2130.2
31993.9	65°	22576.2	9141.1	2437.8	2461.1	2404.2	2168.9	2070.7	2068.1	2034.5	2029.3
33040.9	67.5°	22211.7	8068.3	2207.7	2388.7	2316.3	2065.5	1957.0	1946.6	1902.7	1905.3
31947.3	70°	20386.5	6537.9	1889.7	2210.3	2207.7	1972.5	1838.0	1804.4	1745.0	1755.3
27777.5	72.5°	16963.8	4844.6	1463.2	1913.0	2034.5	1887.2	1701.0	1646.7	1571.8	1582.1
20505.4	75°	12251.0	3293.5	1065.1	1455.4	1770.8	1786.3	1566.6	1473.5	1383.1	1398.6
11413.5	77.5°	6269.0	1866.5	783.3	1003.0	1390.8	1623.5	1445.1	1321.0	1300.3	1445.1
3290.9	80°	2044.9	935.8	542.9	703.2	912.6	1328.8	1266.7	1124.5	1119.4	1153.0
690.2	82.5°	610.1	395.5	349.0	462.7	504.1	1018.6	1093.5	850.5	731.6	770.4
230.1	85°	209.4	191.3	199.1	230.1	240.4	597.2	765.2	563.6	532.5	586.8
51.7	87.5°	49.1	67.2	56.9	51.7	51.7	144.8	297.3	235.2	325.7	217.2
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>
5876.1
4645.5
4221.6
4278.4
4423.2
4547.3
4617.1
4606.7
4493.0
4301.7
4094.9
3906.2
3748.5
3678.7
3580.4
3404.6
3081.5
2903.1
2861.8
2745.4
2611.0
2458.5
2349.9
2215.5
2197.4
2130.2
2026.8
1905.3
1765.7
1579.5
1403.7
1424.4
990.1
796.2
579.1
209.4
0.0

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