

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: P950976

Luminaire Tested: **GALN-SB5B-735-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950976
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-SB5B-735-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28973 lumens
Efficiency: N/A
Efficacy: 158.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

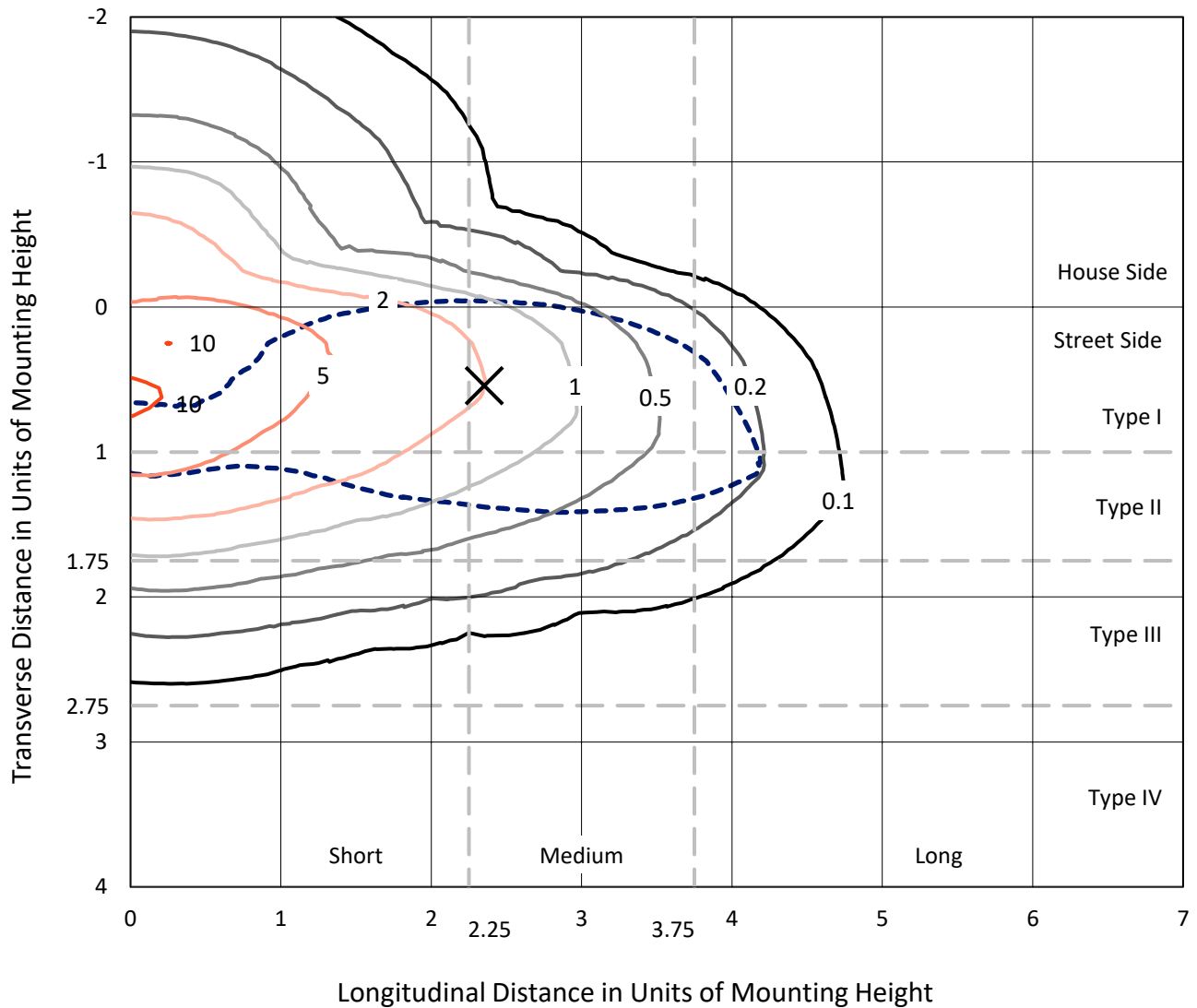
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

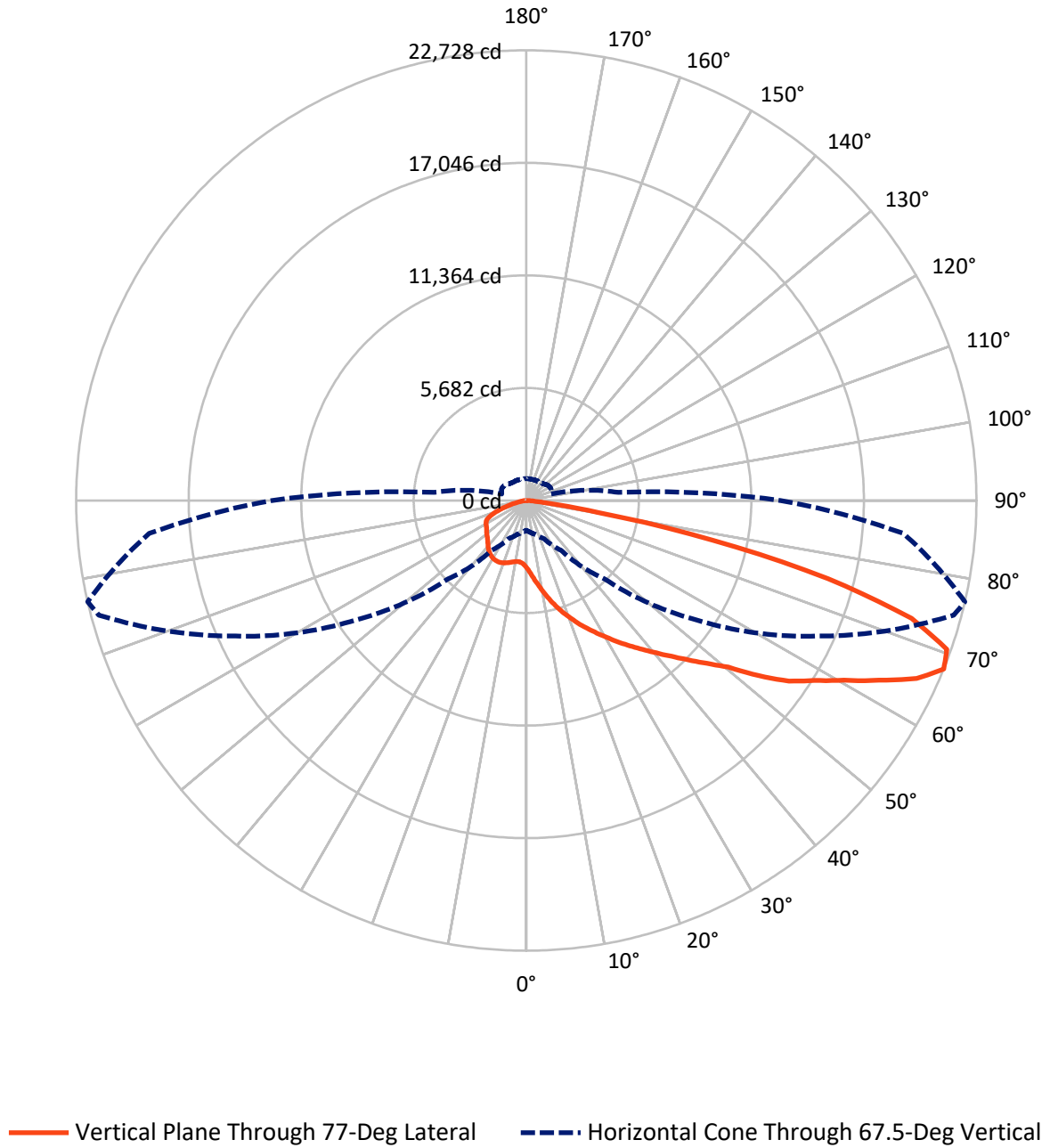
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	5480.5	0.0	5480.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	23492.5	0.0	23492.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	28973.0	0.0	28973.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.4	1.3
10°-20°	1309.0	4.5
20°-30°	2471.6	8.5
30°-40°	3981.7	13.7
40°-50°	5446.3	18.8
50°-60°	6143.4	21.2
60°-70°	5734.1	19.8
70°-80°	3143.3	10.8
80°-90°	379.1	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°	28973.0	100.0
0°-180°	28973.0	100.0

Coefficient of Utilization



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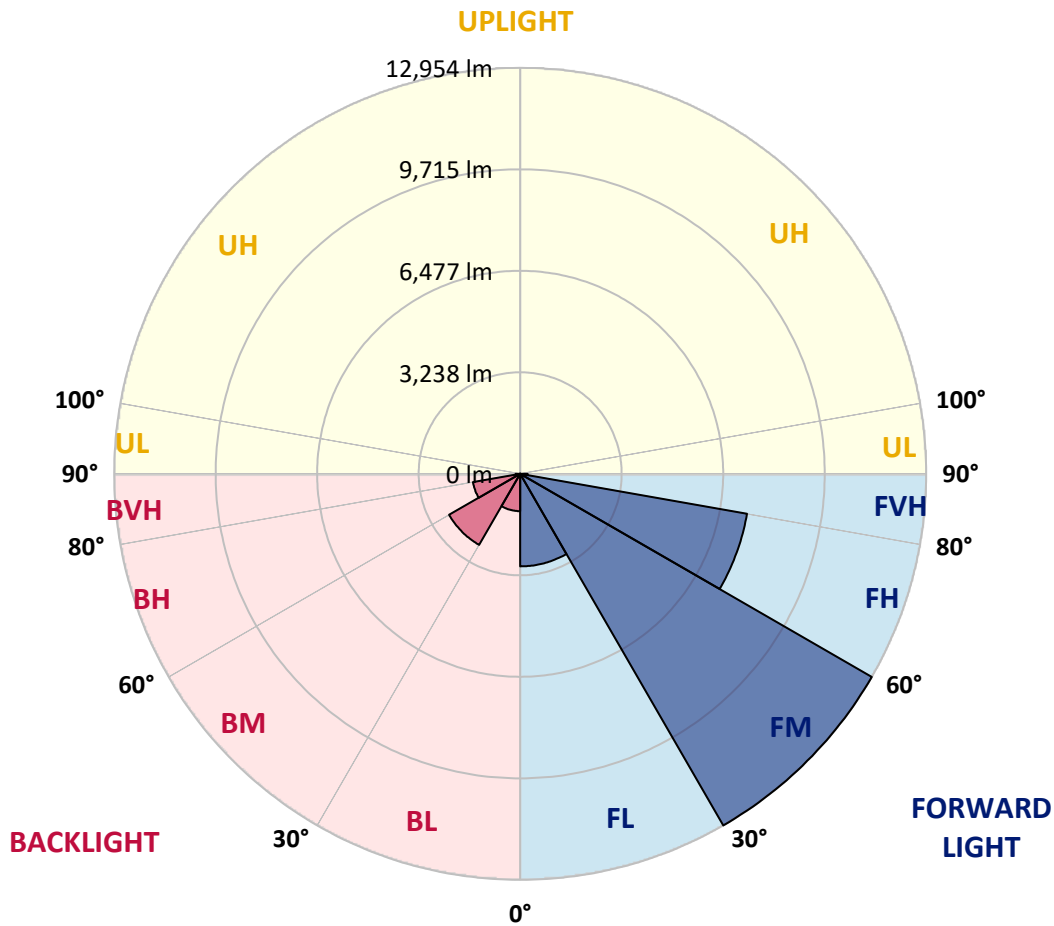
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2953.4	10.2			
FM (30°-60°)	12953.5	44.7			
FH (60°-80°)	7348.4	25.4			G3/7500
FVH (80°-90°)	237.1	0.8			G3/500
BL (0°-30°)	1191.6	4.1	B3/2500		
BM (30°-60°)	2617.9	9.0	B3/5000		
BH (60°-80°)	1529.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	142.0	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3399.4	3399.4	3399.4	3399.4	3399.4	3399.4	3399.4	3399.4	3399.4	3399.4
2.5°	4256.4	4286.3	4248.9	4248.9	4123.3	4057.5	3931.9	3836.1	3664.1	3634.2
5°	5031.1	5068.5	5016.1	4993.7	4845.7	4709.6	4498.7	4290.8	3984.2	3952.8
7.5°	5630.8	5678.7	5632.3	5608.4	5476.8	5324.2	5077.5	4787.3	4355.1	4293.8
10°	6119.9	6127.4	6112.4	6121.4	6018.2	5892.5	5639.8	5301.8	4761.9	4678.1
12.5°	6396.6	6431.0	6460.9	6514.7	6496.8	6419.0	6191.7	5787.9	5192.6	5084.9
15°	6526.7	6586.5	6653.8	6777.9	6878.1	6897.6	6724.1	6309.8	5630.8	5500.7
17.5°	6573.0	6629.9	6736.1	6915.5	7130.9	7276.0	7198.2	6816.8	6064.5	5915.0
20°	6807.8	6824.3	6888.6	7059.1	7292.4	7533.2	7591.5	7304.4	6493.8	6324.8
22.5°	7310.4	7277.4	7295.4	7373.2	7540.7	7774.0	7907.1	7735.1	6935.0	6740.5
25°	8140.4	8044.7	7949.0	7859.2	7944.5	8076.1	8227.1	8165.8	7397.1	7150.3
27.5°	9188.8	9072.1	8861.3	8566.6	8463.4	8509.8	8577.1	8565.1	7824.8	7575.1
30°	10220.7	10084.6	9833.4	9407.1	9134.9	9012.3	8961.5	8927.1	8290.0	8023.7
32.5°	11044.8	10937.1	10690.3	10213.3	9818.4	9609.0	9440.0	9317.4	8776.0	8509.8
35°	11765.7	11665.5	11382.8	10862.3	10433.1	10210.3	9988.9	9727.2	9281.5	9012.3
37.5°	12423.7	12323.5	11936.2	11394.8	10962.5	10808.5	10611.1	10166.9	9788.5	9534.3
40°	12839.5	12817.0	12455.1	11841.9	11393.3	11317.0	11251.2	10676.9	10350.8	10114.5
42.5°	12945.7	12995.0	12707.9	12203.9	11776.1	11714.8	11868.9	11254.2	10982.0	10756.1
45°	12689.9	12832.0	12643.6	12301.1	12048.3	12015.4	12416.2	11885.3	11680.4	11474.0
47.5°	12042.3	12283.1	12205.4	12157.5	12121.6	12263.7	12897.8	12555.3	12471.6	12292.1
50°	10735.2	11191.4	11327.5	11629.6	11976.5	12456.6	13336.0	13286.7	13395.8	13214.9
52.5°	8475.4	9103.5	9893.2	10650.0	11530.9	12392.3	13817.6	14336.5	14797.2	14698.5
55°	6996.3	7278.9	7886.1	9274.0	10666.4	12121.6	14034.4	15184.5	16188.1	16099.8
57.5°	5859.6	6112.4	6486.3	7645.4	9359.3	11506.9	14169.0	15702.0	17140.7	17131.8
60°	4640.8	4908.5	5291.3	6112.4	7832.3	10445.1	14139.1	16291.3	18356.6	18431.4
62.5°	3264.8	3559.5	3984.2	4749.9	6272.4	9069.1	13528.9	16717.5	19787.9	19991.3
65°	2146.1	2340.6	2660.6	3321.7	4673.7	7299.9	12363.9	16772.8	21319.4	21663.3
67.5°	1504.5	1579.3	1767.8	2126.7	3080.9	5597.9	10507.9	16200.0	22340.8	22728.2
70°	1174.0	1211.4	1307.1	1450.7	1935.3	3764.4	8052.2	14710.4	22122.5	22526.3
72.5°	1014.0	1049.9	1085.8	1103.7	1298.2	2324.1	5454.3	12299.6	20066.1	20339.8
75°	919.8	928.7	958.7	952.7	990.1	1507.5	3148.2	8961.5	15832.1	15737.9
77.5°	773.2	785.2	834.5	827.1	879.4	1030.4	1634.7	5783.4	10264.1	9624.0
80°	655.1	661.0	714.9	705.9	764.2	746.3	834.5	2947.8	4353.6	3688.1
82.5°	227.3	281.2	545.9	562.3	583.3	451.7	481.6	1202.4	1329.6	1018.5
85°	110.7	118.2	278.2	394.8	393.3	227.3	234.8	429.2	418.8	329.0
87.5°	17.9	22.4	32.9	154.0	122.6	59.8	80.8	83.8	86.7	74.8
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°
3399.4	0°	3399.4	3399.4	3399.4	3399.4	3399.4	3399.4	3399.4	3399.4	3399.4	3399.4
3520.6	2.5°	3436.8	3362.0	3205.0	3059.9	2946.3	2837.1	2775.8	2723.4	2693.5	2687.5
3685.1	5°	3529.5	3375.5	3089.8	2849.1	2692.0	2575.4	2514.1	2475.2	2455.7	2443.8
3906.4	7.5°	3662.7	3436.8	3030.0	2756.3	2591.8	2508.1	2476.7	2470.7	2469.2	2470.7
4174.1	10°	3846.6	3537.0	3024.0	2733.9	2596.3	2549.9	2548.5	2549.9	2555.9	2557.4
4465.8	12.5°	4045.5	3640.2	3048.0	2753.3	2653.1	2627.7	2623.2	2621.7	2626.2	2629.2
4760.4	15°	4262.4	3776.3	3088.4	2795.2	2716.0	2689.0	2684.6	2675.6	2674.1	2672.6
5070.0	17.5°	4485.2	3910.9	3133.2	2840.1	2756.3	2718.9	2702.5	2681.6	2665.1	2660.6
5390.0	20°	4711.0	4044.0	3164.6	2862.5	2759.3	2707.0	2674.1	2638.2	2609.8	2593.3
5713.1	22.5°	4951.8	4183.1	3184.1	2856.5	2732.4	2660.6	2600.8	2558.9	2515.6	2487.1
6039.1	25°	5186.6	4304.3	3182.6	2825.1	2680.1	2588.8	2512.6	2458.7	2398.9	2369.0
6375.6	27.5°	5412.5	4413.4	3145.2	2769.8	2605.3	2503.6	2412.4	2348.0	2289.7	2261.3
6715.1	30°	5645.8	4504.7	3086.9	2689.0	2517.0	2404.9	2304.7	2249.3	2197.0	2170.1
7074.1	32.5°	5877.6	4588.4	3004.6	2588.8	2415.3	2307.7	2209.0	2158.1	2126.7	2126.7
7459.9	35°	6122.9	4646.7	2895.4	2472.2	2307.7	2204.5	2126.7	2096.8	2093.8	2075.9
7868.2	37.5°	6381.6	4684.1	2762.3	2352.5	2201.5	2104.3	2080.3	2044.4	2014.5	1975.6
8316.9	40°	6653.8	4721.5	2602.3	2228.4	2089.3	2035.5	2025.0	1977.1	1891.9	1796.2
8825.4	42.5°	6984.3	4746.9	2436.3	2104.3	1971.2	1953.2	1968.2	1885.9	1749.8	1678.0
9438.5	45°	7367.2	4788.8	2283.7	1981.6	1850.0	1850.0	1912.8	1805.2	1693.0	1648.1
10138.5	47.5°	7863.7	4886.0	2141.7	1847.0	1737.9	1767.8	1790.2	1707.9	1645.1	1589.8
10991.0	50°	8581.6	5119.3	1995.1	1710.9	1652.6	1712.4	1681.0	1633.2	1559.9	1515.0
12345.9	52.5°	9472.9	5256.9	1865.0	1588.3	1579.3	1639.1	1594.3	1549.4	1494.1	1434.3
13373.4	55°	10080.1	5282.4	1755.8	1498.6	1530.0	1524.0	1507.5	1467.2	1437.2	1358.0
14387.4	57.5°	10759.1	5333.2	1666.1	1444.7	1498.6	1432.8	1426.8	1392.4	1353.5	1299.7
15624.2	60°	11571.2	5412.5	1588.3	1423.8	1471.6	1372.9	1343.0	1329.6	1290.7	1263.8
17112.3	62.5°	12456.6	5484.3	1509.0	1426.8	1440.2	1314.6	1269.7	1265.3	1241.3	1232.4
18509.2	65°	13060.8	5288.3	1410.3	1423.8	1390.9	1254.8	1198.0	1196.5	1177.0	1174.0
19114.9	67.5°	12849.9	4667.7	1277.2	1381.9	1340.0	1195.0	1132.1	1126.2	1100.7	1102.2
18482.3	70°	11794.1	3782.3	1093.3	1278.7	1277.2	1141.1	1063.4	1043.9	1009.5	1015.5
16069.9	72.5°	9813.9	2802.7	846.5	1106.7	1177.0	1091.8	984.1	952.7	909.3	915.3
11862.9	75°	7087.5	1905.4	616.2	842.0	1024.5	1033.4	906.3	852.5	800.1	809.1
6602.9	77.5°	3626.8	1079.8	453.2	580.3	804.6	939.2	836.0	764.2	752.3	836.0
1903.9	80°	1183.0	541.4	314.1	406.8	527.9	768.7	732.8	650.6	647.6	667.0
399.3	82.5°	353.0	228.8	201.9	267.7	291.6	589.3	632.6	492.0	423.2	445.7
133.1	85°	121.1	110.7	115.2	133.1	139.1	345.5	442.7	326.0	308.1	339.5
29.9	87.5°	28.4	38.9	32.9	29.9	29.9	83.8	172.0	136.1	188.4	125.6
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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180°
3399.4
2687.5
2442.3
2475.2
2558.9
2630.7
2671.1
2665.1
2599.3
2488.6
2369.0
2259.8
2168.6
2128.2
2071.4
1969.7
1782.7
1679.5
1655.6
1588.3
1510.5
1422.3
1359.5
1281.7
1271.2
1232.4
1172.5
1102.2
1021.5
913.8
812.1
824.1
572.8
460.6
335.0
121.1
0.0

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