

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: P950367

Luminaire Tested: **GALN-SB4D-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950367
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-SB4D-830-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37326 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

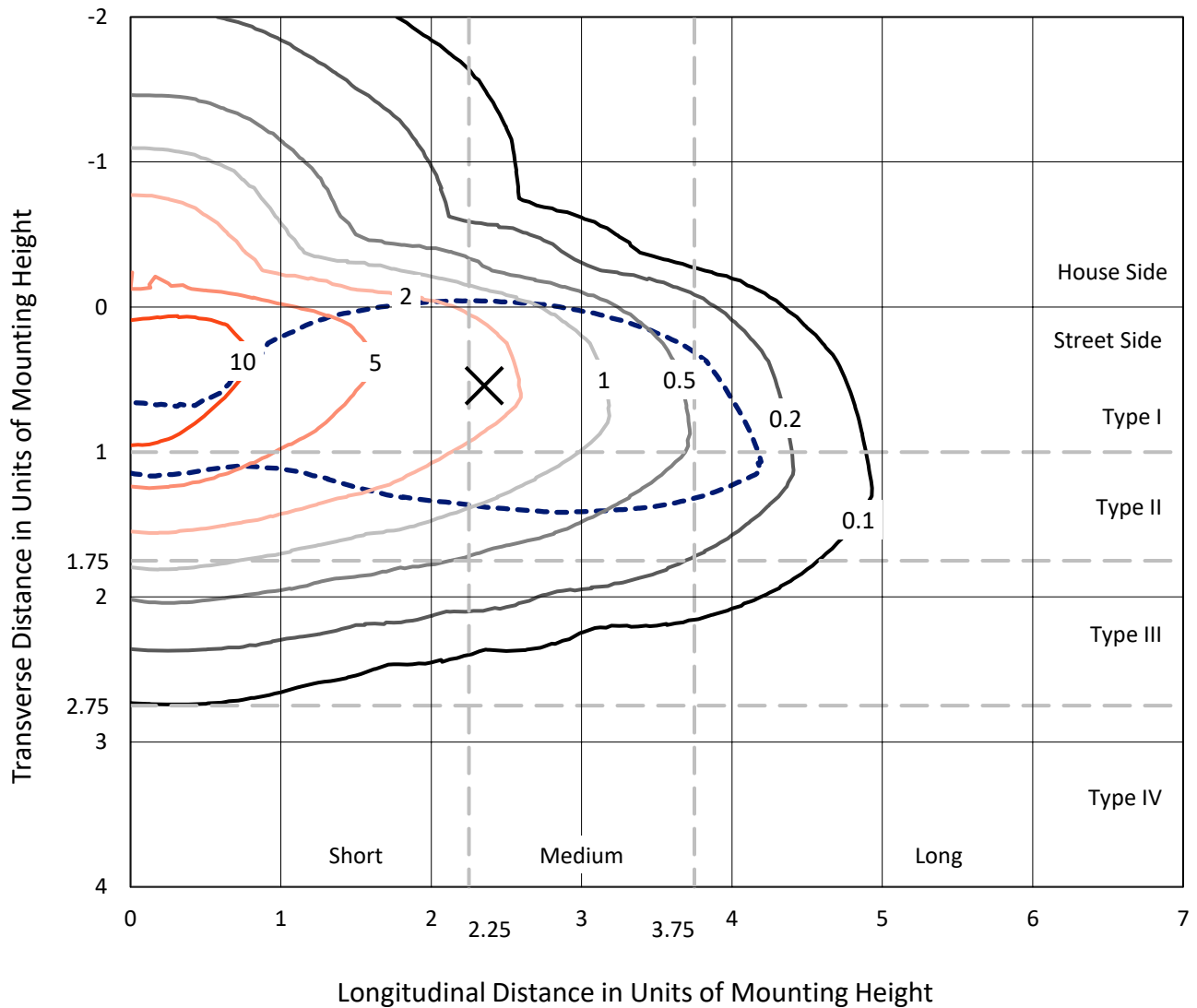
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

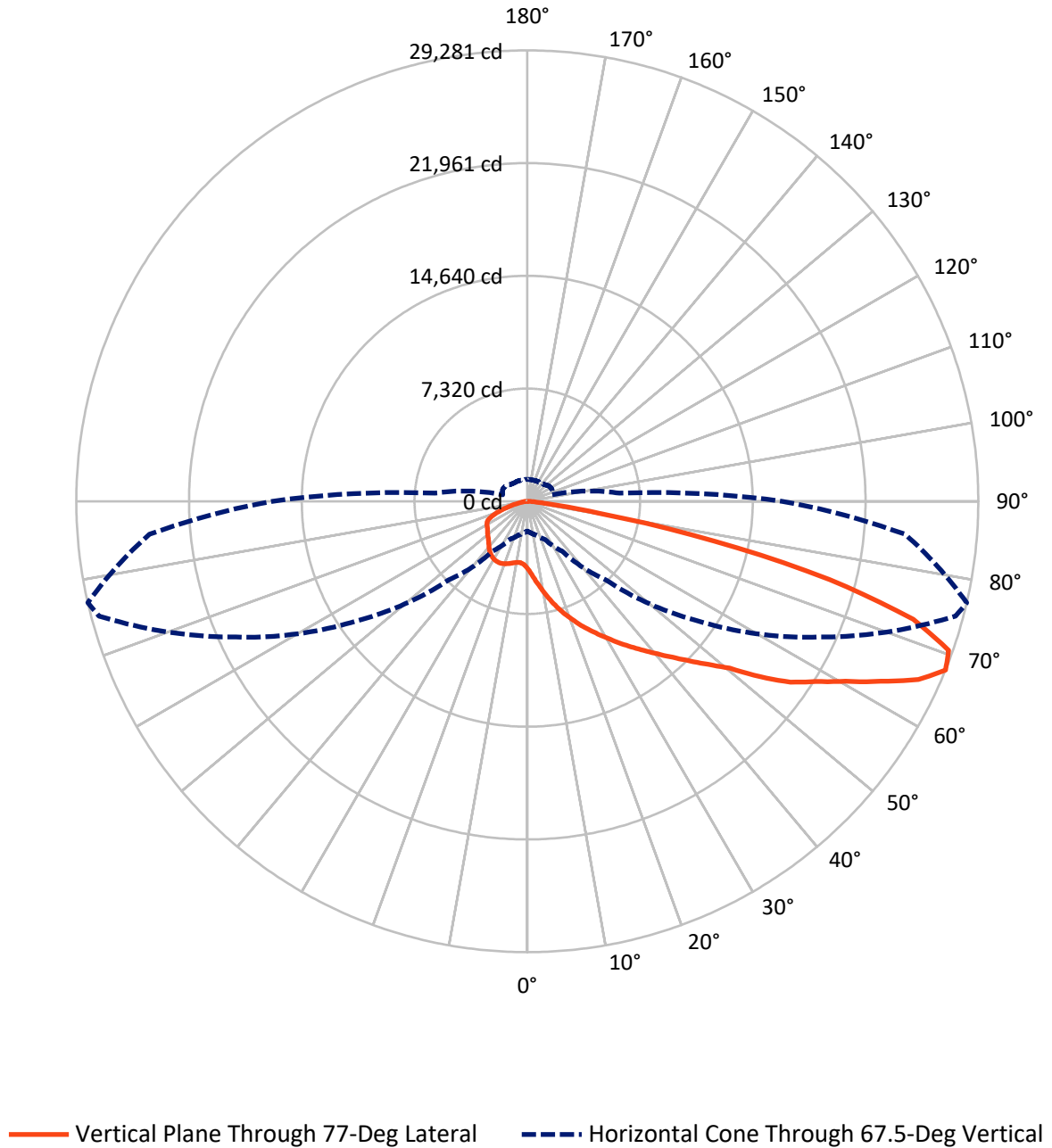
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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	7060.6	0.0	7060.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	30265.4	0.0	30265.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	37326.0	0.0	37326.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.4	1.3
10°-20°	1686.5	4.5
20°-30°	3184.2	8.5
30°-40°	5129.7	13.7
40°-50°	7016.4	18.8
50°-60°	7914.6	21.2
60°-70°	7387.3	19.8
70°-80°	4049.5	10.8
80°-90°	488.5	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°	37326.0	100.0
0°-180°	37326.0	100.0

Coefficient of Utilization

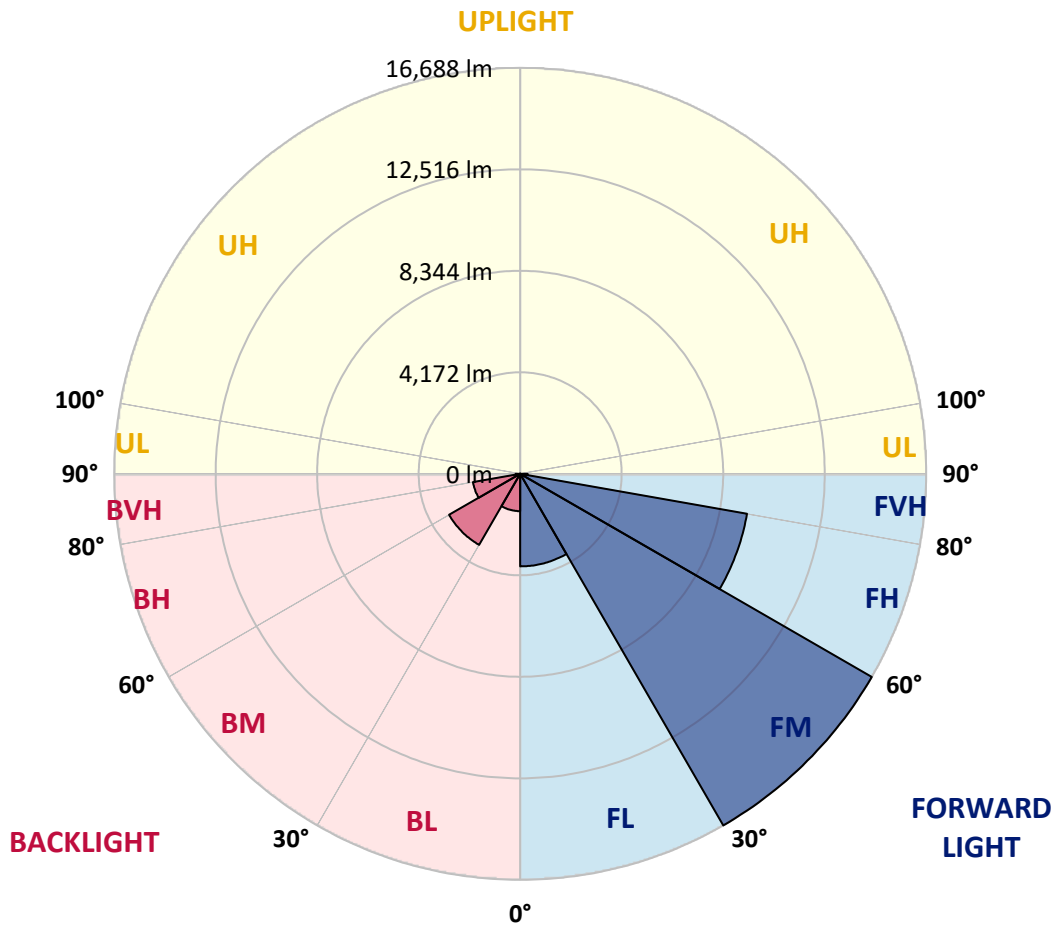


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3804.9	10.2			
FM (30°-60°)	16688.0	44.7			
FH (60°-80°)	9467.0	25.4			G4/12000
FVH (80°-90°)	305.5	0.8			G3/500
BL (0°-30°)	1535.1	4.1	B3/2500		
BM (30°-60°)	3372.7	9.0	B3/5000		
BH (60°-80°)	1969.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	183.0	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-G4
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5
2.5°	5483.5	5522.1	5473.9	5473.9	5312.0	5227.3	5065.4	4942.1	4720.5	4682.0
5°	6481.6	6529.8	6462.3	6433.4	6242.7	6067.3	5795.7	5527.8	5132.9	5092.4
7.5°	7254.2	7315.9	7256.1	7225.3	7055.8	6859.2	6541.3	6167.5	5610.7	5531.7
10°	7884.3	7893.9	7874.6	7886.2	7753.2	7591.4	7265.8	6830.3	6134.8	6026.9
12.5°	8240.7	8285.0	8323.6	8392.9	8369.8	8269.6	7976.7	7456.5	6689.7	6550.9
15°	8408.3	8485.4	8572.1	8732.0	8861.1	8886.2	8662.7	8129.0	7254.2	7086.6
17.5°	8468.1	8541.3	8678.1	8909.3	9186.7	9373.6	9273.4	8782.1	7813.0	7620.3
20°	8770.6	8791.8	8874.6	9094.3	9394.8	9705.0	9780.2	9410.2	8365.9	8148.2
22.5°	9417.9	9375.6	9398.7	9498.9	9714.7	10015.2	10186.7	9965.1	8934.3	8683.9
25°	10487.3	10364.0	10240.7	10125.1	10234.9	10404.4	10599.0	10520.0	9529.7	9211.8
27.5°	11837.9	11687.7	11416.0	11036.4	10903.5	10963.2	11049.9	11034.5	10080.7	9759.0
30°	13167.4	12992.1	12668.4	12119.2	11768.6	11610.6	11545.1	11500.8	10680.0	10337.0
32.5°	14229.0	14090.3	13772.4	13157.8	12649.1	12379.4	12161.6	12003.6	11306.2	10963.2
35°	15157.7	15028.6	14664.5	13994.0	13441.0	13153.9	12868.8	12531.6	11957.4	11610.6
37.5°	16005.5	15876.4	15377.4	14679.9	14123.1	13924.6	13670.3	13098.0	12610.6	12283.0
40°	16541.1	16512.2	16046.0	15256.0	14678.0	14579.7	14494.9	13755.1	13335.0	13030.6
42.5°	16677.9	16741.5	16371.6	15722.3	15171.2	15092.2	15290.7	14498.8	14148.1	13857.2
45°	16348.5	16531.5	16288.7	15847.5	15521.9	15479.5	15995.9	15311.9	15047.9	14782.0
47.5°	15514.2	15824.4	15724.2	15662.5	15616.3	15799.3	16616.3	16175.1	16067.2	15835.9
50°	13830.2	14417.9	14593.2	14982.4	15429.4	16047.9	17180.8	17117.2	17257.9	17024.8
52.5°	10918.9	11728.1	12745.4	13720.4	14855.2	15965.0	17801.2	18469.8	19063.2	18936.1
55°	9013.3	9377.5	10159.7	11947.8	13741.6	15616.3	18080.6	19562.3	20855.1	20741.4
57.5°	7549.0	7874.6	8356.3	9849.5	12057.6	14824.4	18254.0	20228.9	22082.5	22070.9
60°	5978.7	6323.6	6816.8	7874.6	10090.4	13456.4	18215.5	20988.1	23648.9	23745.2
62.5°	4206.1	4585.7	5132.9	6119.4	8080.8	11683.8	17429.4	21537.2	25492.8	25754.8
65°	2764.9	3015.4	3427.7	4279.3	6021.1	9404.5	15928.4	21608.5	27465.8	27909.0
67.5°	1938.3	2034.6	2277.4	2739.8	3969.1	7211.8	13537.3	20870.5	28781.8	29280.8
70°	1512.5	1560.7	1684.0	1868.9	2493.2	4849.6	10373.6	18951.5	28500.5	29020.7
72.5°	1306.3	1352.6	1398.8	1421.9	1672.4	2994.2	7026.9	15845.6	25851.2	26203.8
75°	1185.0	1196.5	1235.0	1227.3	1275.5	1942.2	4055.8	11545.1	20396.6	20275.2
77.5°	996.1	1011.5	1075.1	1065.5	1132.9	1327.5	2105.9	7450.7	13223.3	12398.6
80°	843.9	851.6	921.0	909.4	984.6	961.4	1075.1	3797.6	5608.8	4751.4
82.5°	292.9	362.2	703.3	724.5	751.4	581.9	620.4	1549.1	1712.9	1312.1
85°	142.6	152.2	358.4	508.7	506.7	292.9	302.5	553.0	539.5	423.9
87.5°	23.1	28.9	42.4	198.5	158.0	77.1	104.0	107.9	111.8	96.3
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°
4379.5	0°	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5
4535.6	2.5°	4427.7	4331.3	4129.0	3942.1	3795.7	3655.0	3576.0	3508.6	3470.1	3462.4
4747.5	5°	4547.1	4348.7	3980.7	3670.5	3468.1	3317.9	3238.9	3188.8	3163.7	3148.3
5032.7	7.5°	4718.6	4427.7	3903.6	3551.0	3339.1	3231.2	3190.7	3183.0	3181.1	3183.0
5377.6	10°	4955.6	4556.8	3895.9	3522.1	3344.8	3285.1	3283.2	3285.1	3292.8	3294.7
5753.3	12.5°	5211.9	4689.7	3926.7	3547.1	3418.1	3385.3	3379.5	3377.6	3383.4	3387.2
6132.8	15°	5491.2	4865.0	3978.7	3601.1	3499.0	3464.3	3458.5	3447.0	3445.0	3443.1
6531.7	17.5°	5778.3	5038.4	4036.5	3658.9	3551.0	3502.8	3481.6	3454.7	3433.5	3427.7
6944.0	20°	6069.3	5209.9	4077.0	3687.8	3554.9	3487.4	3445.0	3398.8	3362.2	3341.0
7360.2	22.5°	6379.5	5389.1	4102.0	3680.1	3520.2	3427.7	3350.6	3296.7	3240.8	3204.2
7780.2	25°	6682.0	5545.2	4100.1	3639.6	3452.7	3335.2	3236.9	3167.6	3090.5	3052.0
8213.7	27.5°	6972.9	5685.8	4052.0	3568.3	3356.4	3225.4	3107.8	3025.0	2949.9	2913.2
8651.1	30°	7273.5	5803.4	3976.8	3464.3	3242.7	3098.2	2969.1	2897.8	2830.4	2795.7
9113.5	32.5°	7572.1	5911.3	3870.8	3335.2	3111.7	2973.0	2845.8	2780.3	2739.8	2739.8
9610.6	35°	7888.1	5986.4	3730.2	3184.9	2973.0	2840.0	2739.8	2701.3	2697.4	2674.3
10136.6	37.5°	8221.4	6034.6	3558.7	3030.8	2836.2	2710.9	2680.1	2633.9	2595.3	2545.2
10714.6	40°	8572.1	6082.7	3352.5	2870.9	2691.7	2622.3	2608.8	2547.2	2437.3	2314.0
11369.7	42.5°	8997.9	6115.5	3138.7	2710.9	2539.5	2516.3	2535.6	2429.6	2254.3	2161.8
12159.7	45°	9491.2	6169.4	2942.1	2552.9	2383.4	2383.4	2464.3	2325.6	2181.1	2123.3
13061.4	47.5°	10130.8	6294.7	2759.1	2379.5	2238.9	2277.4	2306.3	2200.3	2119.4	2048.1
14159.7	50°	11055.7	6595.3	2570.3	2204.2	2129.1	2206.1	2165.7	2104.0	2009.6	1951.8
15905.3	52.5°	12204.0	6772.5	2402.7	2046.2	2034.6	2111.7	2053.9	1996.1	1924.8	1847.8
17229.0	55°	12986.3	6805.3	2262.0	1930.6	1971.1	1963.4	1942.2	1890.1	1851.6	1749.5
18535.3	57.5°	13861.0	6870.8	2146.4	1861.2	1930.6	1845.8	1838.1	1793.8	1743.7	1674.3
20128.7	60°	14907.3	6972.9	2046.2	1834.3	1895.9	1768.8	1730.2	1712.9	1662.8	1628.1
22045.9	62.5°	16047.9	7065.4	1944.1	1838.1	1855.5	1693.6	1635.8	1630.0	1599.2	1587.6
23845.4	65°	16826.3	6813.0	1816.9	1834.3	1791.9	1616.5	1543.3	1541.4	1516.4	1512.5
24625.8	67.5°	16554.6	6013.4	1645.4	1780.3	1726.4	1539.5	1458.5	1450.8	1418.1	1420.0
23810.8	70°	15194.3	4872.7	1408.5	1647.4	1645.4	1470.1	1369.9	1344.9	1300.6	1308.3
20702.9	72.5°	12643.3	3610.7	1090.5	1425.8	1516.4	1406.5	1267.8	1227.3	1171.5	1179.2
15283.0	75°	9130.9	2454.7	793.8	1084.8	1319.8	1331.4	1167.6	1098.2	1030.8	1042.4
8506.6	77.5°	4672.4	1391.1	583.8	747.6	1036.6	1210.0	1077.1	984.6	969.2	1077.1
2452.8	80°	1524.1	697.5	404.6	524.1	680.1	990.3	944.1	838.1	834.3	859.3
514.4	82.5°	454.7	294.8	260.1	344.9	375.7	759.1	815.0	633.9	545.3	574.2
171.5	85°	156.1	142.6	148.4	171.5	179.2	445.1	570.3	420.0	396.9	437.4
38.5	87.5°	36.6	50.1	42.4	38.5	38.5	107.9	221.6	175.3	242.8	161.8
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°
4379.5
3462.4
3146.4
3188.8
3296.7
3389.2
3441.2
3433.5
3348.7
3206.1
3052.0
2911.3
2793.8
2741.8
2668.5
2537.5
2296.7
2163.7
2132.9
2046.2
1946.0
1832.3
1751.4
1651.2
1637.7
1587.6
1510.6
1420.0
1316.0
1177.2
1046.2
1061.6
737.9
593.4
431.6
156.1
0.0

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