

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: P951784

Luminaire Tested: **GALN-SB5D-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-830-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46975 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

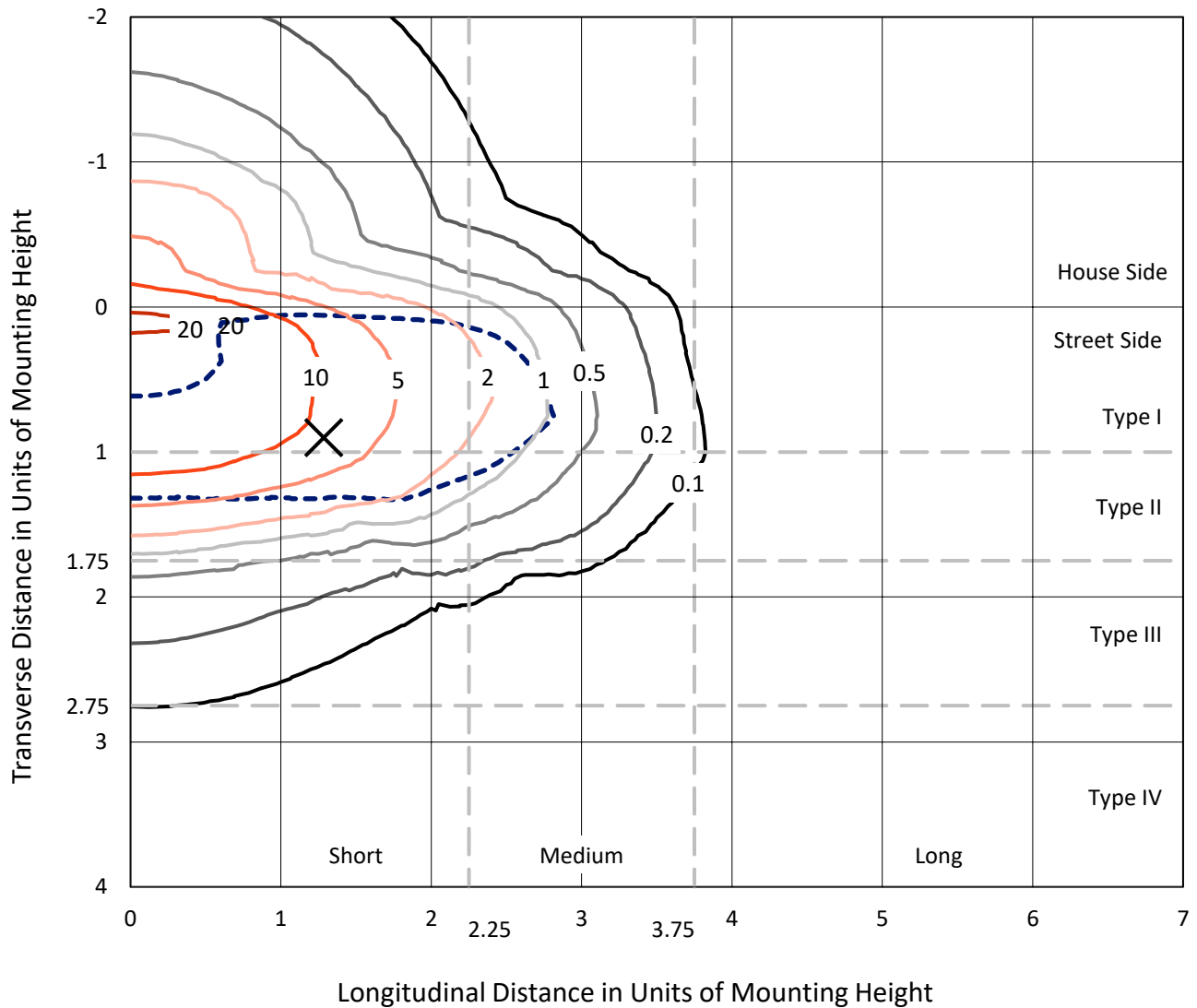
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

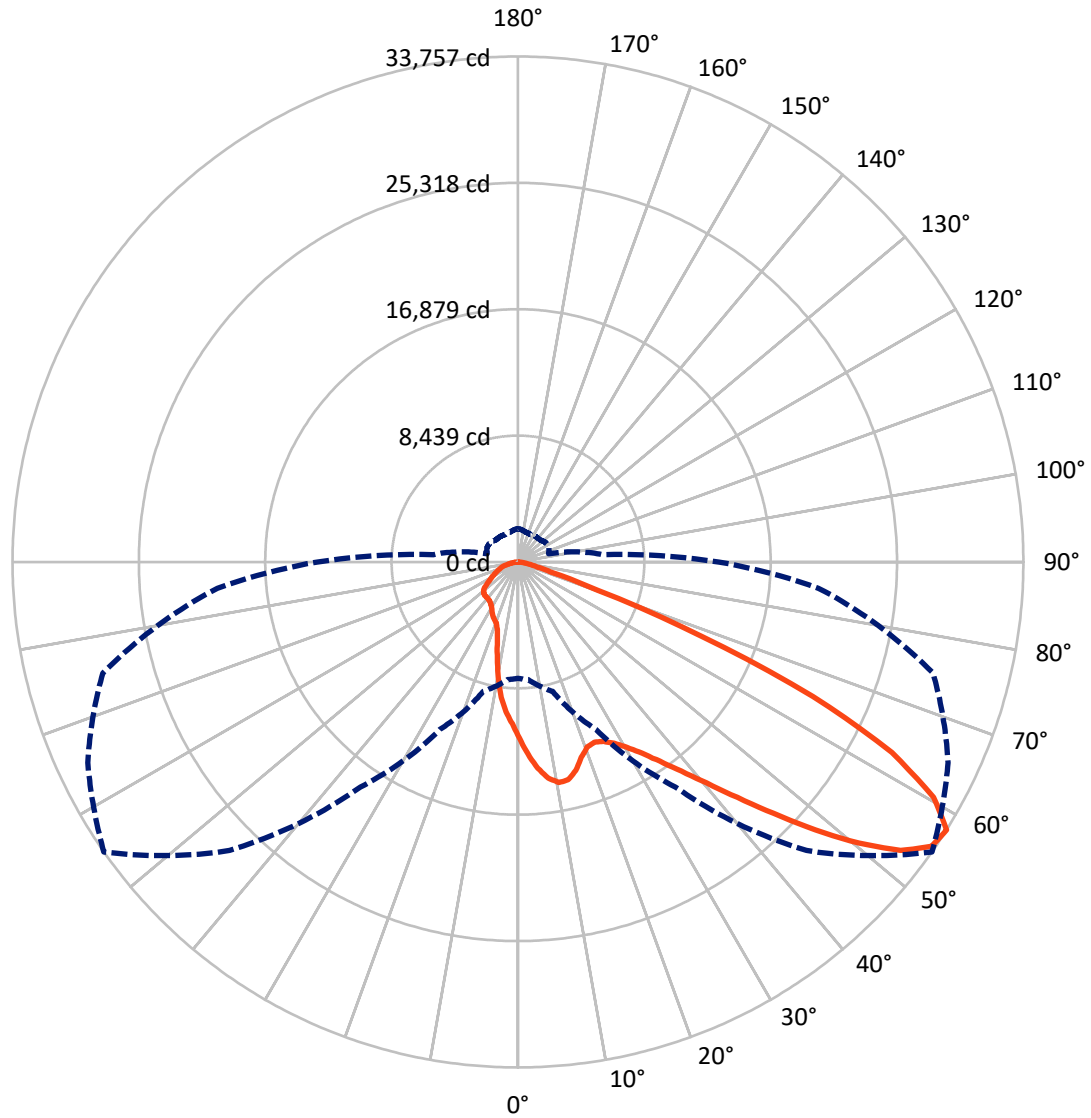
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8499.9	0.0	8499.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	38475.1	0.0	38475.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	46975.0	0.0	46975.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1092.2	2.3
10°-20°	2756.8	5.9
20°-30°	4399.1	9.4
30°-40°	6964.9	14.8
40°-50°	10660.5	22.7
50°-60°	11418.4	24.3
60°-70°	7183.3	15.3
70°-80°	2124.3	4.5
80°-90°	375.6	0.8
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°	46975.0	100.0
0°-180°	46975.0	100.0

Coefficient of Utilization



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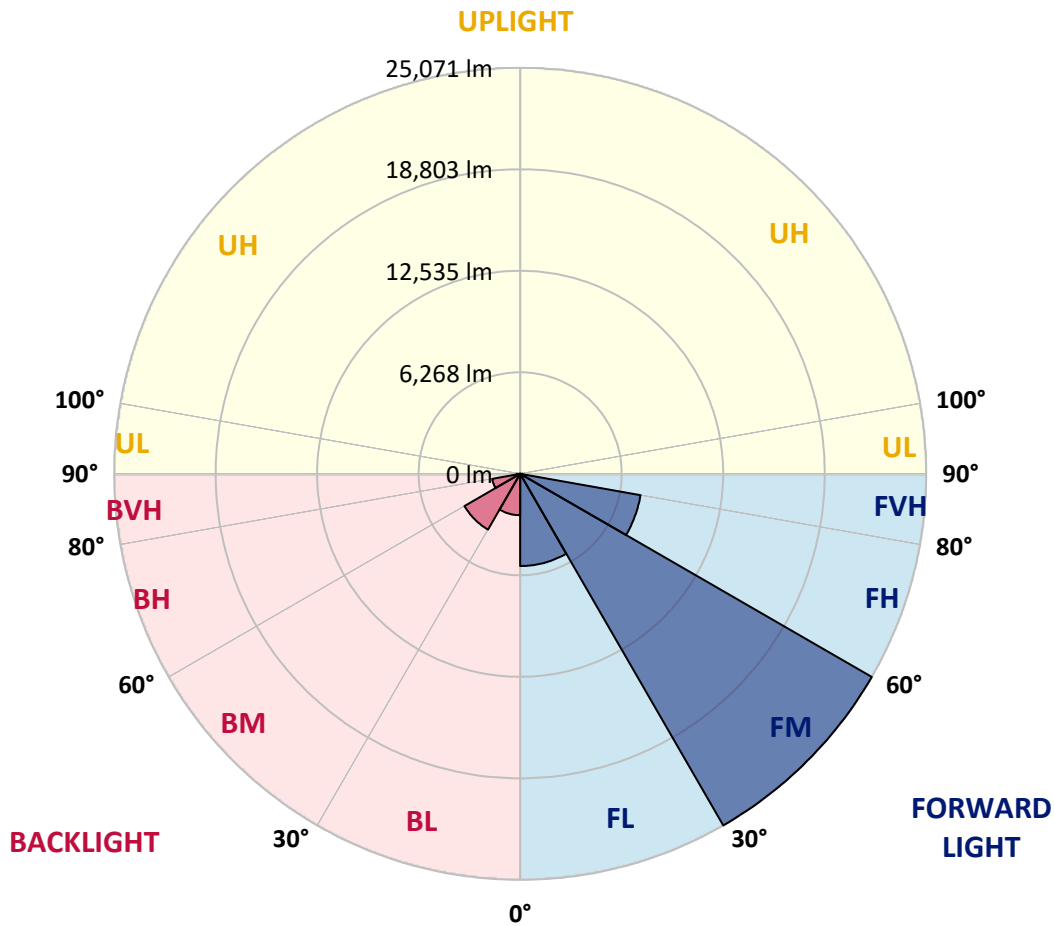
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5693.4	12.1			
FM (30°-60°)	25070.9	53.4			
FH (60°-80°)	7552.2	16.1			G4/12000
FVH (80°-90°)	158.7	0.3			G2/225
BL (0°-30°)	2554.8	5.4	B4/5000		
BM (30°-60°)	3972.8	8.5	B3/5000		
BH (60°-80°)	1755.4	3.7	B3/2500		G3/2500
BVH (80°-90°)	216.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11770.4	11770.4	11770.4	11770.4	11770.4	11770.4	11770.4	11770.4	11770.4	11770.4
2.5°	13504.3	13494.6	13548.0	13365.9	13242.0	13074.5	12853.5	12571.8	12268.2	11947.7
5°	14720.9	14635.9	14691.8	14555.8	14419.8	14167.2	13839.4	13380.4	12819.5	12180.8
7.5°	14529.1	14470.8	14614.1	14735.5	14837.5	14805.9	14565.5	14084.7	13361.0	12433.4
10°	12982.2	12916.6	13118.2	13538.3	14155.1	14691.8	14983.2	14684.5	13914.7	12710.2
12.5°	11617.4	11585.9	11719.4	12059.4	12744.2	13773.8	14929.7	15209.0	14490.2	13038.0
15°	11034.6	10995.8	11080.7	11253.2	11690.3	12649.5	14444.1	15568.4	15056.0	13416.9
17.5°	10905.9	10862.2	10898.6	10988.5	11270.2	12001.1	13710.7	15745.7	15646.1	13839.4
20°	11143.9	11107.5	11112.3	11107.5	11304.2	11884.5	13200.7	15677.7	16160.9	14227.9
22.5°	11719.4	11658.7	11661.1	11532.4	11639.3	12088.5	13067.2	15495.6	16619.9	14567.9
25°	12656.8	12547.5	12569.4	12241.5	12212.4	12545.1	13276.0	15354.7	17076.4	14839.9
27.5°	13939.0	13815.1	13749.5	13261.4	13028.3	13193.4	13701.0	15403.3	17508.7	15075.5
30°	15541.7	15391.1	15257.6	14565.5	14142.9	14082.2	14361.5	15723.8	18018.7	15323.1
32.5°	17506.3	17331.4	17088.6	16170.7	15575.7	15257.6	15216.3	16294.5	18616.0	15638.8
35°	19844.8	19616.5	19271.7	18084.2	17331.4	16680.6	16343.1	17117.7	19434.4	16114.8
37.5°	22253.8	21996.4	21680.7	20267.3	19342.1	18382.9	17717.5	18234.8	20524.8	16760.8
40°	24475.8	24186.8	23892.9	22635.0	21641.8	20485.9	19400.4	19648.1	21857.9	17533.0
42.5°	25787.1	25573.4	25461.7	24781.7	24014.4	22841.4	21493.7	21323.7	23356.3	18421.8
45°	25728.8	25641.4	25986.2	26267.9	26085.8	25435.0	23946.4	23176.6	24859.4	19191.6
47.5°	24354.3	24412.6	25182.4	26765.7	27462.7	27802.6	26739.0	24995.4	26165.9	19767.1
50°	20614.6	20663.2	22445.6	25859.9	27817.2	29733.2	29509.8	26770.6	27178.5	20119.2
52.5°	17654.4	17686.0	18450.9	23174.1	26646.7	30704.6	32006.2	28443.7	27919.2	20216.4
55°	13297.9	13407.1	14264.4	18181.4	23601.5	29934.8	33526.4	30167.9	28387.9	20226.1
57.5°	7768.4	7887.4	8946.2	12341.1	18344.1	27251.4	33757.1	31697.8	28706.0	20148.4
60°	3805.3	3856.3	4317.7	6486.2	11311.4	22081.4	31901.8	32438.4	28883.3	20107.1
62.5°	2564.4	2557.1	2576.5	3200.6	5573.2	14186.7	28035.8	31141.7	28788.6	19949.2
65°	2205.0	2178.3	2105.4	2246.3	2887.4	6488.7	21661.2	27270.8	28067.3	19553.4
67.5°	1906.3	1908.7	1911.1	1867.4	2061.7	2994.2	13237.2	21481.5	25478.7	17678.7
70°	1578.5	1600.3	1610.0	1610.0	1680.4	1964.6	5650.9	14723.3	20097.4	13861.3
72.5°	1437.6	1391.5	1396.3	1372.0	1372.0	1495.9	2275.4	8346.4	12661.6	7797.6
75°	1172.9	1202.1	1206.9	1189.9	1134.1	1141.3	1350.2	3501.7	5417.7	3234.6
77.5°	1012.6	1012.6	1022.4	1010.2	966.5	854.8	900.9	1357.5	1843.1	1325.9
80°	813.5	811.1	852.4	876.6	808.7	631.4	575.5	750.4	818.4	582.8
82.5°	395.8	420.1	585.2	667.8	614.4	456.5	352.1	466.3	437.1	257.4
85°	230.7	218.6	262.3	371.5	352.1	252.6	170.0	242.8	228.3	131.1
87.5°	72.9	68.0	53.4	126.3	102.0	70.4	46.1	70.4	63.1	29.1
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
11770.4	0°	11770.4	11770.4	11770.4	11770.4	11770.4	11770.4	11770.4	11770.4	11770.4	11770.4
11809.3	2.5°	11636.8	11350.3	11066.2	10806.3	10648.5	10546.5	10444.5	10330.4	10286.7	10221.1
11840.8	5°	11520.3	10966.6	10473.6	10048.7	9662.6	9359.0	9053.0	8805.3	8693.6	8768.9
11940.4	7.5°	11452.3	10650.9	9890.8	9111.3	8360.9	7761.1	7239.0	6872.3	6707.2	6748.5
12037.5	10°	11391.6	10293.9	9135.6	7904.4	6826.2	6083.1	5548.9	5269.6	5165.2	5187.0
12168.7	12.5°	11335.7	9893.3	8225.0	6605.2	5459.0	4968.5	4815.5	4817.9	4837.4	4851.9
12377.5	15°	11326.0	9410.0	7207.5	5468.7	4720.8	4689.2	4854.4	4958.8	5014.6	5031.6
12552.4	17.5°	11311.4	8832.1	6170.5	4694.1	4541.1	4754.8	4907.8	4975.8	5019.5	5021.9
12722.3	20°	11253.2	8098.7	5213.8	4325.0	4502.2	4686.8	4781.5	4834.9	4871.4	4883.5
12851.0	22.5°	11073.5	7282.7	4468.2	4159.8	4346.8	4495.0	4606.7	4667.4	4689.2	4703.8
12875.3	25°	10750.5	6369.7	3953.4	4002.0	4130.7	4317.7	4407.5	4419.7	4412.4	4434.2
12814.6	27.5°	10327.9	5391.0	3632.9	3788.3	3953.4	4113.7	4162.3	4155.0	4140.4	4164.7
12710.2	30°	9818.0	4512.0	3428.9	3547.9	3773.7	3919.4	3963.1	3946.1	3917.0	3943.7
12656.8	32.5°	9278.9	3793.1	3261.3	3380.3	3625.6	3768.9	3812.6	3795.6	3773.7	3795.6
12717.5	35°	8776.2	3290.5	3105.9	3268.6	3509.0	3649.9	3705.7	3708.2	3708.2	3734.9
12877.8	37.5°	8314.8	2996.6	2977.2	3198.2	3428.9	3555.2	3635.3	3640.2	3535.7	3543.0
13149.7	40°	7887.4	2872.8	2918.9	3152.1	3351.2	3472.6	3477.5	3205.5	3013.6	3008.8
13460.6	42.5°	7537.7	2848.5	2935.9	3147.2	3295.3	3300.2	2957.8	2746.5	2693.1	2695.5
13747.1	45°	7209.9	2841.2	2974.8	3147.2	3212.8	2850.9	2620.2	2564.4	2569.2	2588.7
13875.8	47.5°	6843.2	2812.1	2982.1	3103.5	2974.8	2535.2	2467.2	2443.0	2433.2	2438.1
13846.7	50°	6442.5	2707.7	2889.8	3016.1	2566.8	2399.3	2314.3	2307.0	2319.1	2326.4
13684.0	52.5°	6020.0	2537.7	2731.9	2858.2	2379.8	2280.3	2185.6	2202.6	2256.0	2273.0
13514.0	55°	5743.1	2338.5	2523.1	2542.5	2248.7	2168.6	2088.4	2127.3	2226.8	2258.4
13412.0	57.5°	5670.3	2127.3	2285.1	2263.3	2081.1	2071.4	2022.8	2056.8	2183.1	2229.3
13407.1	60°	5648.4	1937.9	2052.0	2035.0	1918.4	1964.6	1952.4	1969.4	2013.1	2027.7
13358.6	62.5°	5478.4	1787.3	1843.1	1818.9	1772.7	1852.9	1882.0	1845.6	1879.6	1896.6
13025.9	65°	5046.2	1665.9	1639.2	1622.2	1641.6	1714.4	1772.7	1699.9	1731.4	1780.0
11743.7	67.5°	4332.2	1500.7	1427.9	1447.3	1508.0	1546.9	1622.2	1539.6	1566.3	1648.9
9458.6	70°	3504.2	1291.9	1226.3	1282.2	1340.5	1420.6	1432.8	1376.9	1440.0	1532.3
5772.3	72.5°	2479.4	1080.6	1034.5	1148.6	1168.1	1272.5	1245.8	1219.1	1306.5	1338.0
2853.4	75°	1719.3	871.8	845.1	932.5	1002.9	1092.8	1073.3	1104.9	1289.5	1304.0
1425.5	77.5°	1087.9	677.5	660.5	716.4	813.5	913.1	944.6	1304.0	2202.6	2290.0
740.7	80°	631.4	505.1	485.7	529.4	614.4	706.7	910.6	1600.3	1452.2	1435.2
332.7	82.5°	352.1	347.3	323.0	335.1	410.4	510.0	1287.0	1126.8	915.5	944.6
133.6	85°	165.1	204.0	174.8	167.6	230.7	597.4	859.7	643.5	427.4	417.7
29.1	87.5°	43.7	38.9	38.9	43.7	97.1	514.8	342.4	274.4	162.7	157.8
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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