

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: P953212

Luminaire Tested: **GALN-SB6D-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953212
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-SB6D-830-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 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: 56392 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

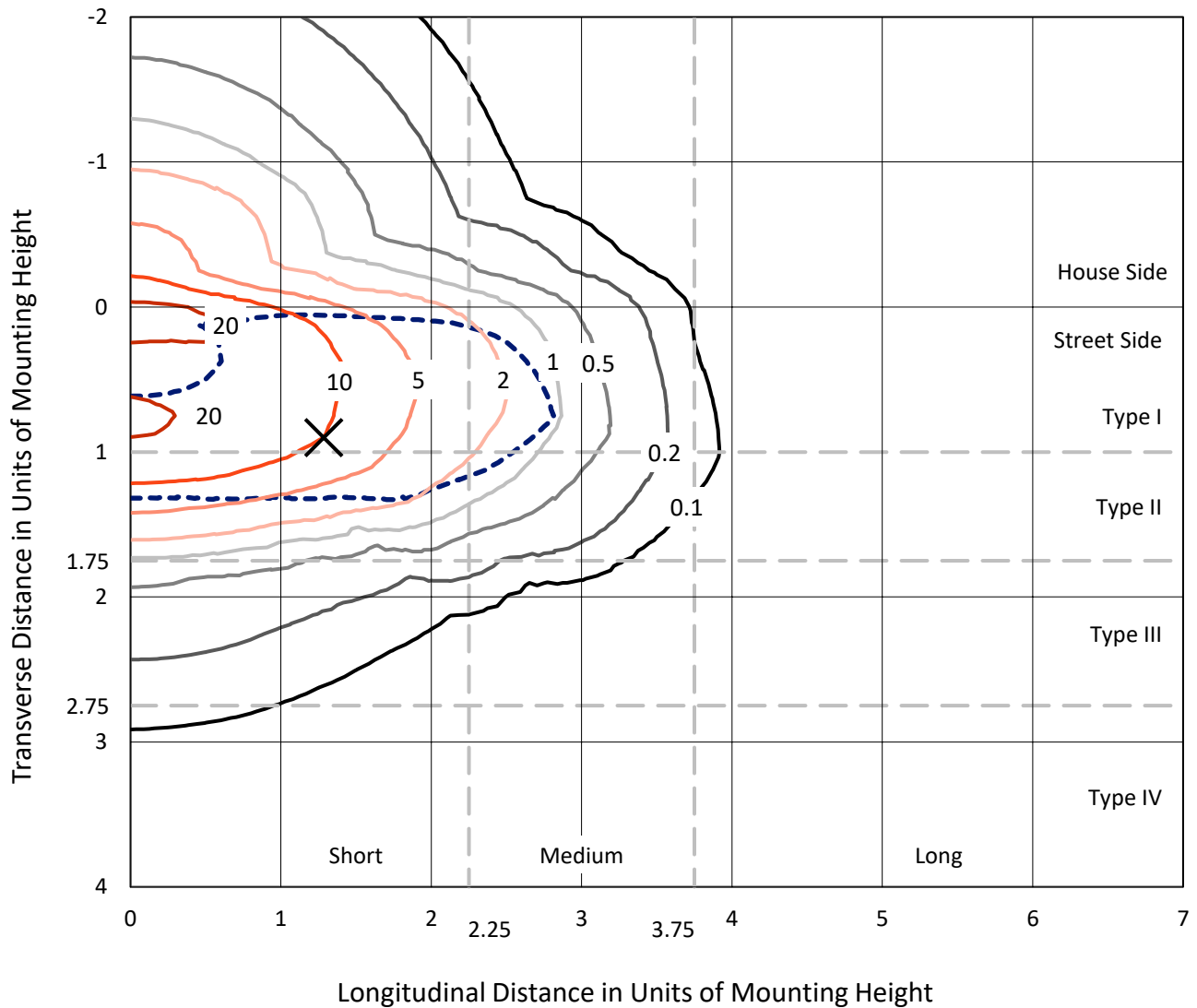
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

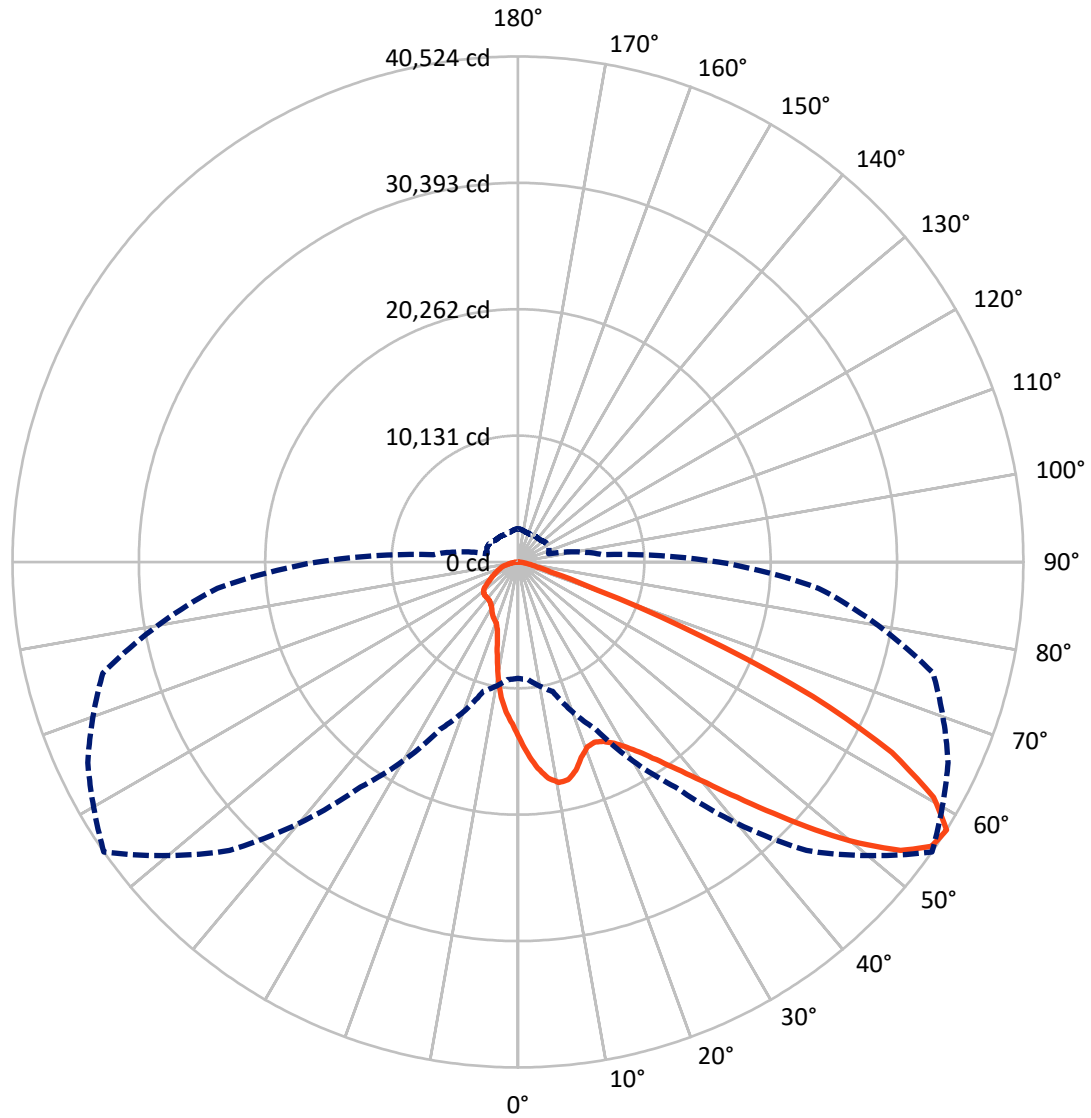
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.3 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	10203.8	0.0	10203.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	46188.1	0.0	46188.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	56392.0	0.0	56392.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1311.2	2.3
10°-20°	3309.5	5.9
20°-30°	5281.0	9.4
30°-40°	8361.1	14.8
40°-50°	12797.5	22.7
50°-60°	13707.4	24.3
60°-70°	8623.4	15.3
70°-80°	2550.1	4.5
80°-90°	450.9	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°	56392.0	100.0
0°-180°	56392.0	100.0

Coefficient of Utilization



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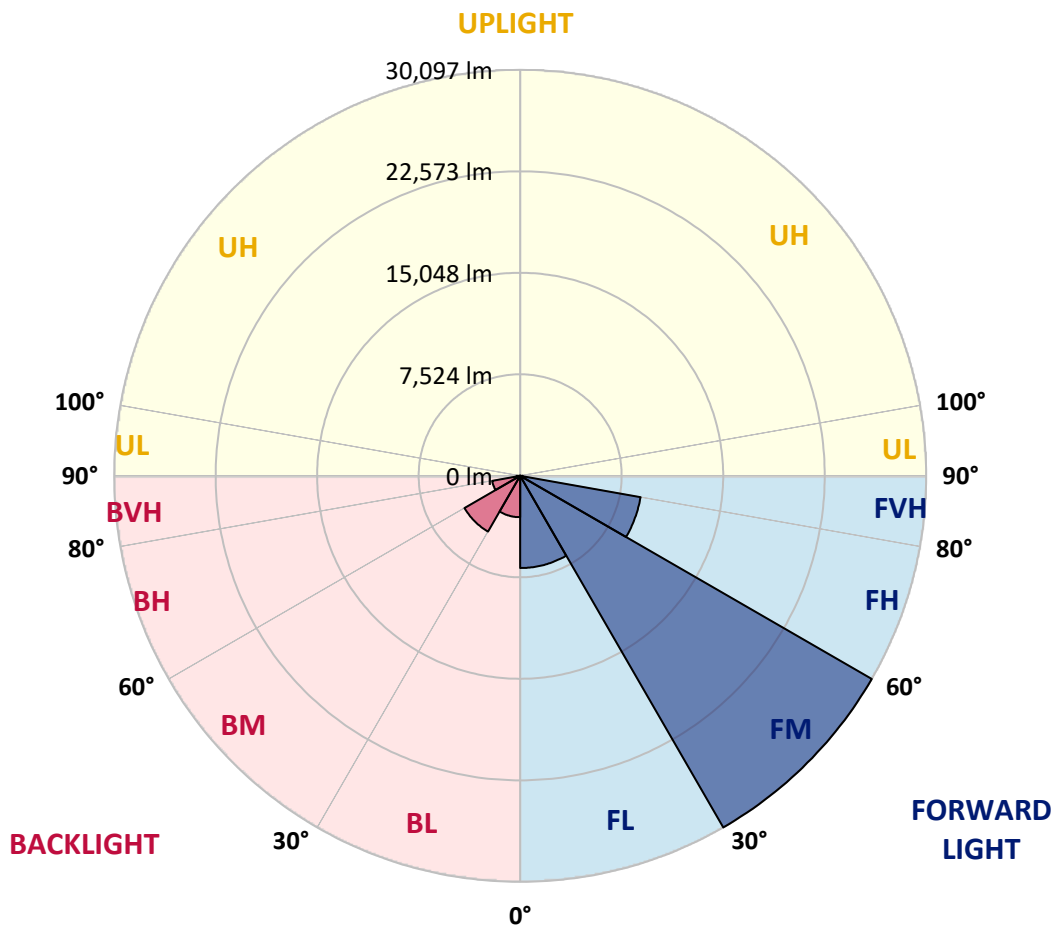
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6834.7	12.1			
FM (30°-60°)	30096.8	53.4			
FH (60°-80°)	9066.1	16.1			G4/12000
FVH (80°-90°)	190.5	0.3			G2/225
BL (0°-30°)	3066.9	5.4	B4/5000		
BM (30°-60°)	4769.2	8.5	B3/5000		
BH (60°-80°)	2107.3	3.7	B3/2500		G3/2500
BVH (80°-90°)	260.4	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14130.0	14130.0	14130.0	14130.0	14130.0	14130.0	14130.0	14130.0	14130.0	14130.0
2.5°	16211.5	16199.8	16263.9	16045.3	15896.6	15695.5	15430.2	15092.0	14727.6	14342.8
5°	17672.0	17569.9	17637.0	17473.7	17310.5	17007.3	16613.8	16062.8	15389.4	14622.7
7.5°	17441.7	17371.7	17543.7	17689.5	17811.9	17774.0	17485.4	16908.2	16039.5	14925.9
10°	15584.7	15506.0	15747.9	16252.3	16992.7	17637.0	17986.8	17628.3	16704.1	15258.2
12.5°	13946.3	13908.4	14068.8	14476.9	15299.0	16535.0	17922.7	18257.9	17395.0	15651.7
15°	13246.7	13200.1	13302.1	13509.1	14033.8	15185.3	17339.6	18689.4	18074.3	16106.5
17.5°	13092.2	13039.7	13083.4	13191.3	13529.5	14406.9	16459.3	18902.2	18782.7	16613.8
20°	13377.9	13334.2	13340.0	13334.2	13570.3	14267.0	15847.1	18820.6	19400.7	17080.2
22.5°	14068.8	13995.9	13998.8	13844.3	13972.6	14511.9	15686.7	18601.9	19951.7	17488.3
25°	15194.1	15062.9	15089.1	14695.6	14660.6	15060.0	15937.4	18432.8	20499.7	17814.8
27.5°	16733.3	16584.6	16505.9	15919.9	15640.1	15838.3	16447.6	18491.2	21018.6	18097.6
30°	18657.3	18476.6	18316.2	17485.4	16978.2	16905.3	17240.5	18876.0	21630.8	18395.0
32.5°	21015.7	20805.8	20514.3	19412.4	18698.1	18316.2	18266.7	19561.0	22348.0	18773.9
35°	23823.1	23549.0	23135.1	21709.5	20805.8	20024.6	19619.3	20549.3	23330.4	19345.3
37.5°	26715.0	26405.9	26027.0	24330.3	23219.6	22068.1	21269.3	21890.3	24639.3	20120.8
40°	29382.4	29035.5	28682.7	27172.6	25980.3	24592.7	23289.6	23586.9	26239.8	21047.8
42.5°	30956.6	30700.0	30565.9	29749.7	28828.5	27420.4	25802.5	25598.4	28038.5	22114.8
45°	30886.6	30781.7	31195.6	31533.8	31315.1	30533.9	28746.8	27822.7	29843.0	23038.9
47.5°	29236.6	29306.6	30230.7	32131.4	32968.1	33376.2	32099.3	30006.2	31411.3	23729.8
50°	24747.2	24805.5	26945.3	31044.0	33393.7	35693.8	35425.6	32137.2	32627.0	24152.5
52.5°	21193.5	21231.4	22149.7	27819.8	31988.6	36859.9	38422.4	34145.8	33516.1	24269.1
55°	15963.7	16094.9	17123.9	21826.1	28332.9	35935.7	40247.3	36215.6	34078.8	24280.8
57.5°	9325.7	9468.6	10739.6	14815.1	22021.5	32714.4	40524.3	38052.2	34460.7	24187.5
60°	4568.1	4629.3	5183.2	7786.5	13579.0	26508.0	38297.1	38941.3	34673.5	24137.9
62.5°	3078.5	3069.7	3093.0	3842.2	6690.4	17030.6	33656.1	37384.6	34559.8	23948.4
65°	2647.0	2614.9	2527.5	2696.6	3466.2	7789.4	26003.6	32737.8	33694.0	23473.2
67.5°	2288.4	2291.4	2294.3	2241.8	2475.0	3594.4	15890.8	25787.9	30586.3	21222.7
70°	1894.9	1921.1	1932.8	1932.8	2017.3	2358.4	6783.7	17674.9	24126.2	16640.0
72.5°	1725.8	1670.4	1676.2	1647.1	1647.1	1795.8	2731.5	10019.6	15199.9	9360.7
75°	1408.0	1443.0	1448.9	1428.5	1361.4	1370.1	1620.9	4203.7	6503.8	3883.1
77.5°	1215.6	1215.6	1227.3	1212.7	1160.3	1026.2	1081.5	1629.6	2212.6	1591.7
80°	976.6	973.7	1023.2	1052.4	970.8	758.0	690.9	900.8	982.4	699.6
82.5°	475.2	504.3	702.6	801.7	737.5	548.1	422.7	559.7	524.7	309.0
85°	276.9	262.4	314.8	446.0	422.7	303.2	204.1	291.5	274.0	157.4
87.5°	87.5	81.6	64.1	151.6	122.4	84.5	55.4	84.5	75.8	35.0
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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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
14130.0	0°	14130.0	14130.0	14130.0	14130.0	14130.0	14130.0	14130.0	14130.0	14130.0	14130.0
14176.6	2.5°	13969.7	13625.7	13284.6	12972.7	12783.2	12660.7	12538.3	12401.3	12348.8	12270.1
14214.5	5°	13829.7	13165.1	12573.3	12063.1	11599.6	11235.2	10867.9	10570.5	10436.4	10526.8
14334.1	7.5°	13748.1	12786.1	11873.6	10937.9	10037.1	9317.0	8690.2	8250.0	8051.8	8101.4
14450.7	10°	13675.2	12357.6	10967.0	9489.0	8194.6	7302.6	6661.2	6326.0	6200.6	6226.9
14608.1	12.5°	13608.2	11876.6	9873.8	7929.4	6553.4	5964.5	5780.9	5783.8	5807.1	5824.6
14858.8	15°	13596.5	11296.4	8652.3	6565.0	5667.2	5629.3	5827.5	5952.9	6019.9	6040.3
15068.7	17.5°	13579.0	10602.6	7407.5	5635.1	5451.4	5708.0	5891.6	5973.3	6025.7	6028.6
15272.8	20°	13509.1	9722.2	6258.9	5192.0	5404.8	5626.3	5740.0	5804.2	5847.9	5862.5
15427.3	22.5°	13293.3	8742.7	5364.0	4993.7	5218.2	5396.0	5530.1	5603.0	5629.3	5646.8
15456.4	25°	12905.6	7646.6	4746.0	4804.3	4958.8	5183.2	5291.1	5305.7	5296.9	5323.2
15383.5	27.5°	12398.4	6471.8	4361.1	4547.7	4746.0	4938.4	4996.7	4987.9	4970.4	4999.6
15258.2	30°	11786.2	5416.5	4116.3	4259.1	4530.2	4705.1	4757.6	4737.2	4702.2	4734.3
15194.1	32.5°	11139.0	4553.6	3915.1	4058.0	4352.4	4524.4	4576.9	4556.5	4530.2	4556.5
15266.9	35°	10535.6	3950.1	3728.5	3923.9	4212.5	4381.6	4448.6	4451.5	4451.5	4483.6
15459.3	37.5°	9981.7	3597.4	3574.0	3839.3	4116.3	4267.9	4364.1	4369.9	4244.5	4253.3
15785.8	40°	9468.6	3448.7	3504.1	3783.9	4023.0	4168.7	4174.6	3848.1	3617.8	3611.9
16159.0	42.5°	9048.8	3419.5	3524.5	3778.1	3955.9	3961.8	3550.7	3297.1	3233.0	3235.9
16503.0	45°	8655.2	3410.8	3571.1	3778.1	3856.8	3422.5	3145.5	3078.5	3084.3	3107.6
16657.5	47.5°	8215.1	3375.8	3579.9	3725.6	3571.1	3043.5	2961.8	2932.7	2921.0	2926.9
16622.5	50°	7734.0	3250.5	3469.1	3620.7	3081.4	2880.2	2778.2	2769.4	2784.0	2792.8
16427.2	52.5°	7226.8	3046.4	3279.6	3431.2	2856.9	2737.4	2623.7	2644.1	2708.2	2728.6
16223.1	55°	6894.5	2807.3	3028.9	3052.2	2699.5	2603.3	2507.1	2553.7	2673.2	2711.1
16100.7	57.5°	6807.0	2553.7	2743.2	2717.0	2498.3	2486.7	2428.4	2469.2	2620.8	2676.2
16094.9	60°	6780.8	2326.3	2463.3	2442.9	2303.0	2358.4	2343.8	2364.2	2416.7	2434.2
16036.5	62.5°	6576.7	2145.6	2212.6	2183.5	2128.1	2224.3	2259.3	2215.6	2256.4	2276.8
15637.2	65°	6057.8	1999.8	1967.8	1947.4	1970.7	2058.1	2128.1	2040.6	2078.5	2136.8
14097.9	67.5°	5200.7	1801.6	1714.1	1737.5	1810.3	1857.0	1947.4	1848.2	1880.3	1979.4
11354.7	70°	4206.6	1550.9	1472.2	1539.2	1609.2	1705.4	1720.0	1652.9	1728.7	1839.5
6929.4	72.5°	2976.4	1297.3	1241.9	1378.9	1402.2	1527.6	1495.5	1463.4	1568.4	1606.3
3425.4	75°	2064.0	1046.6	1014.5	1119.4	1204.0	1311.8	1288.5	1326.4	1548.0	1565.5
1711.2	77.5°	1306.0	813.3	792.9	860.0	976.6	1096.1	1134.0	1565.5	2644.1	2749.0
889.1	80°	758.0	606.4	583.0	635.5	737.5	848.3	1093.2	1921.1	1743.3	1722.9
399.4	82.5°	422.7	416.9	387.7	402.3	492.7	612.2	1545.1	1352.7	1099.0	1134.0
160.3	85°	198.2	244.9	209.9	201.1	276.9	717.1	1032.0	772.5	513.1	501.4
35.0	87.5°	52.5	46.6	46.6	52.5	116.6	618.0	411.0	329.4	195.3	189.5
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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