

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: P948823

Luminaire Tested: **GALN-SB3D-735-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948823
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-SB3D-735-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31052 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

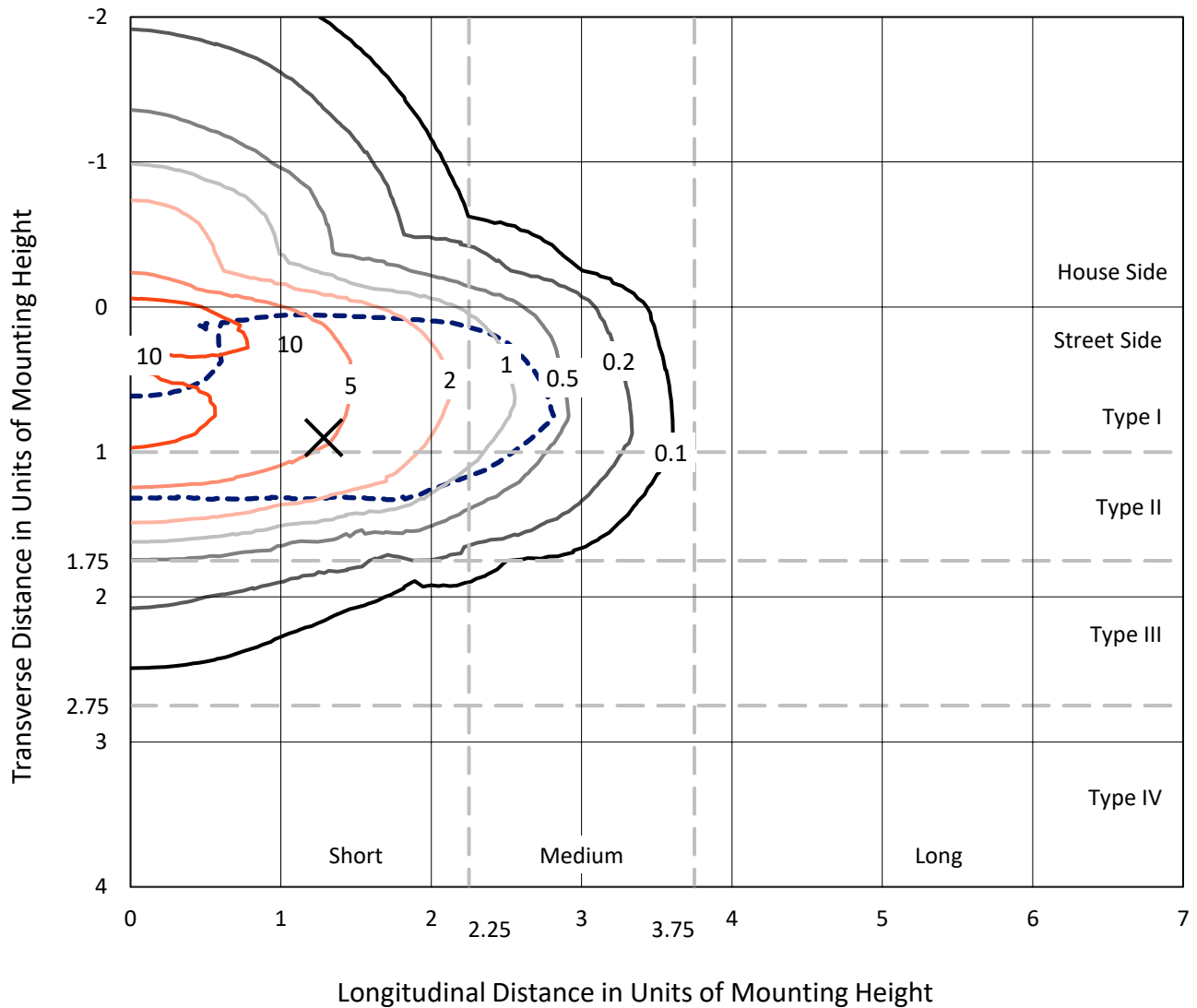
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

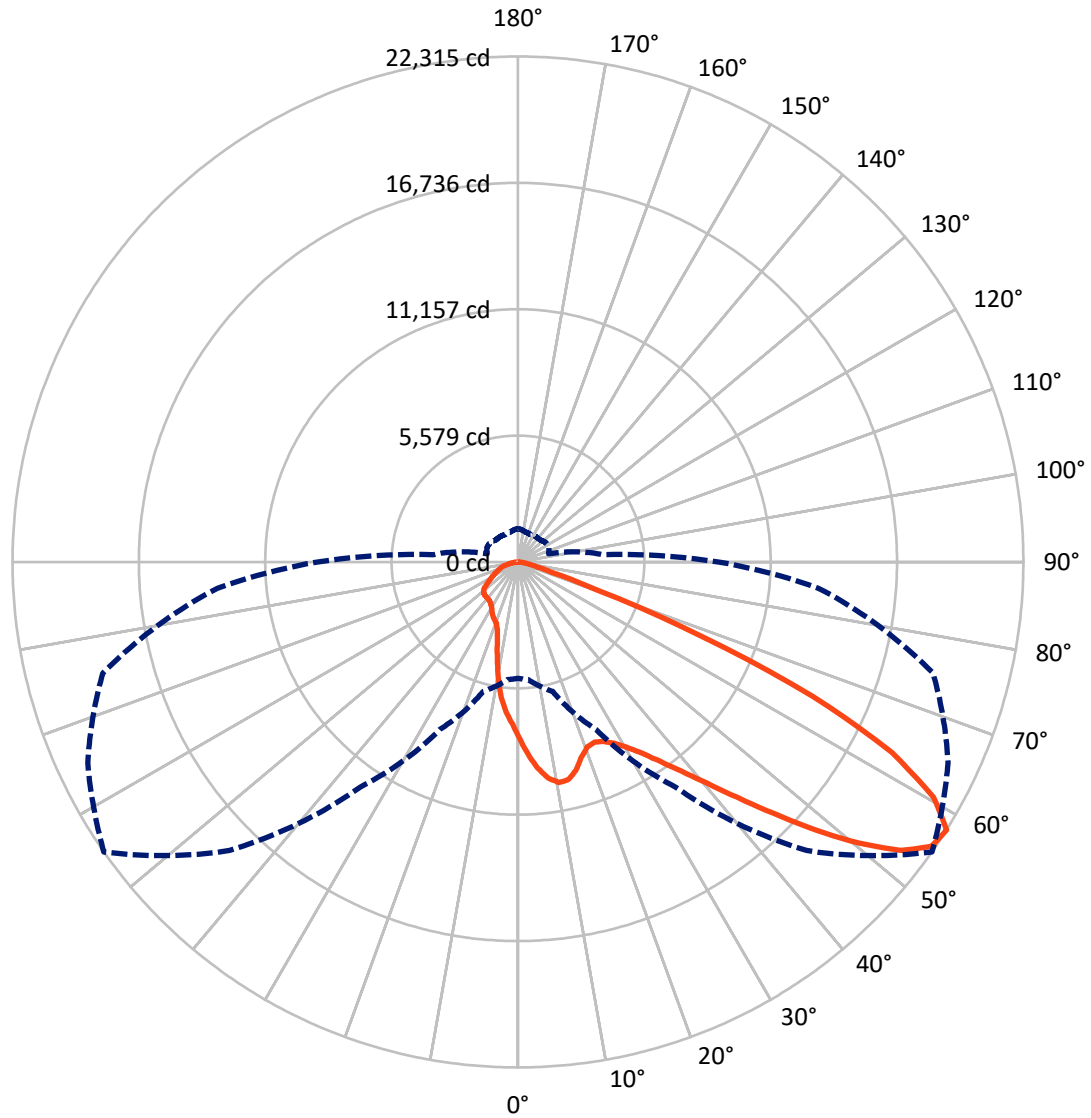
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 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	5618.7	0.0	5618.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	25433.3	0.0	25433.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	31052.0	0.0	31052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	722.0	2.3
10°-20°	1822.3	5.9
20°-30°	2908.0	9.4
30°-40°	4604.0	14.8
40°-50°	7046.9	22.7
50°-60°	7547.9	24.3
60°-70°	4748.4	15.3
70°-80°	1404.2	4.5
80°-90°	248.3	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°	31052.0	100.0
0°-180°	31052.0	100.0

Coefficient of Utilization



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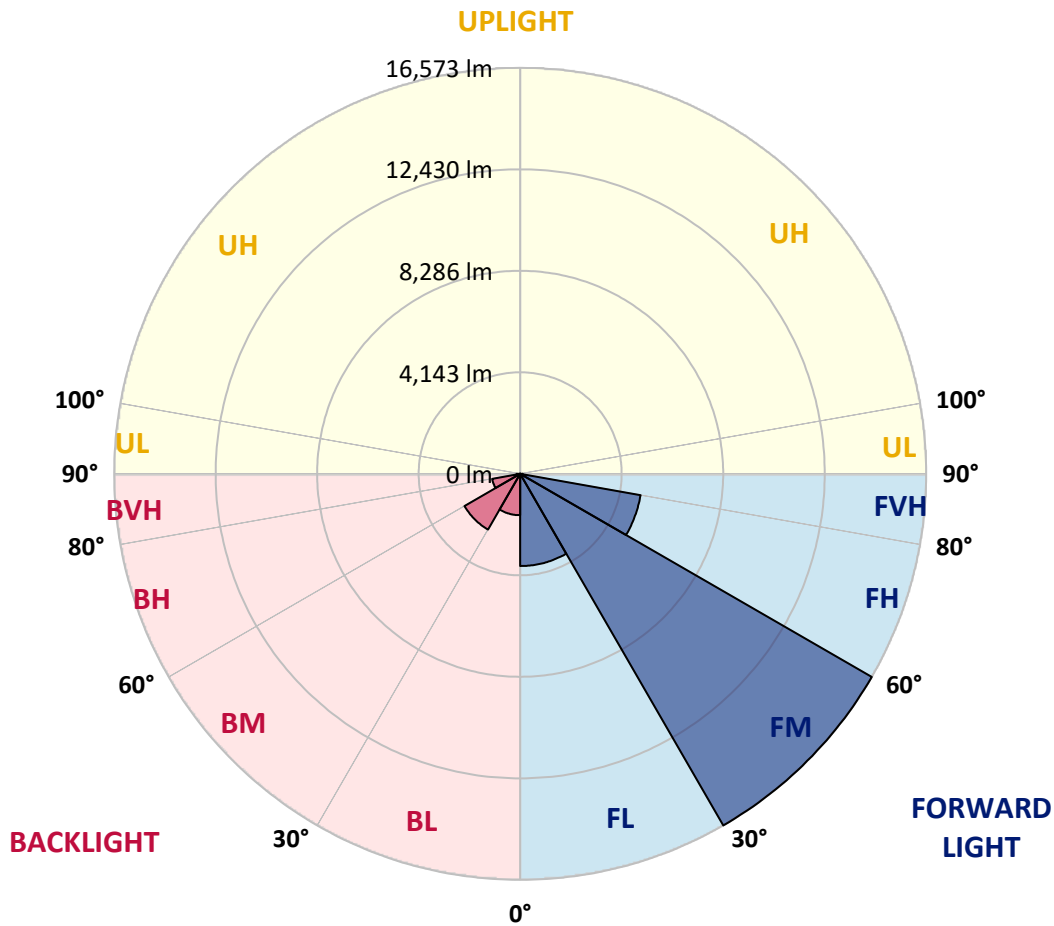
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3763.5	12.1			
FM (30°-60°)	16572.7	53.4			
FH (60°-80°)	4992.2	16.1			G2/5000
FVH (80°-90°)	104.9	0.3			G2/225
BL (0°-30°)	1688.8	5.4	B3/2500		
BM (30°-60°)	2626.1	8.5	B3/5000		
BH (60°-80°)	1160.4	3.7	B3/2500		G3/2500
BVH (80°-90°)	143.4	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7780.6	7780.6	7780.6	7780.6	7780.6	7780.6	7780.6	7780.6	7780.6	7780.6
2.5°	8926.8	8920.3	8955.7	8835.3	8753.4	8642.6	8496.6	8310.4	8109.7	7897.8
5°	9731.0	9674.8	9711.7	9621.8	9531.9	9365.0	9148.3	8844.9	8474.1	8051.9
7.5°	9604.2	9565.7	9660.4	9740.6	9808.0	9787.2	9628.3	9310.4	8832.1	8218.9
10°	8581.6	8538.3	8671.5	8949.2	9357.0	9711.7	9904.4	9706.9	9198.1	8401.9
12.5°	7679.5	7658.6	7746.9	7971.6	8424.3	9105.0	9869.0	10053.7	9578.5	8618.6
15°	7294.2	7268.6	7324.7	7438.7	7727.7	8361.7	9548.0	10291.2	9952.5	8869.0
17.5°	7209.2	7180.3	7204.3	7263.7	7449.9	7933.1	9063.2	10408.4	10342.6	9148.3
20°	7366.5	7342.4	7345.6	7342.4	7472.4	7856.1	8726.1	10363.5	10682.9	9405.1
22.5°	7746.9	7706.8	7708.4	7623.3	7693.9	7990.9	8637.8	10243.1	10986.3	9629.9
25°	8366.5	8294.3	8308.7	8092.0	8072.8	8292.7	8775.9	10150.0	11288.1	9809.7
27.5°	9214.1	9132.2	9088.9	8766.2	8612.1	8721.3	9056.8	10182.1	11573.8	9965.4
30°	10273.6	10174.0	10085.8	9628.3	9348.9	9308.8	9493.4	10394.0	11910.9	10129.1
32.5°	11572.2	11456.6	11296.1	10689.3	10296.0	10085.8	10058.5	10771.2	12305.8	10337.8
35°	13118.1	12967.2	12739.2	11954.3	11456.6	11026.4	10803.3	11315.4	12846.8	10652.4
37.5°	14710.5	14540.3	14331.6	13397.4	12785.8	12151.7	11711.9	12053.8	13567.5	11079.4
40°	16179.3	15988.2	15794.0	14962.5	14305.9	13541.8	12824.3	12988.0	14448.8	11589.9
42.5°	17046.1	16904.8	16831.0	16381.5	15874.3	15098.9	14208.0	14095.7	15439.2	12177.4
45°	17007.6	16949.8	17177.7	17363.9	17243.5	16813.3	15829.3	15320.5	16432.9	12686.3
47.5°	16099.0	16137.5	16646.4	17693.0	18153.7	18378.5	17675.4	16522.8	17296.5	13066.7
50°	13626.9	13659.0	14837.3	17094.3	18388.1	19654.6	19506.9	17696.2	17965.9	13299.5
52.5°	11670.1	11691.0	12196.7	15318.9	17614.4	20296.7	21157.1	18802.2	18455.5	13363.7
55°	8790.3	8862.6	9429.2	12018.5	15601.4	19787.9	22162.0	19942.0	18765.3	13370.1
57.5°	5135.2	5213.8	5913.7	8157.9	12126.0	18014.1	22314.5	20953.3	18975.6	13318.7
60°	2515.4	2549.1	2854.1	4287.6	7477.2	14596.5	21088.1	21442.9	19092.8	13291.4
62.5°	1695.1	1690.3	1703.2	2115.7	3684.0	9377.8	18532.6	20585.7	19030.2	13187.1
65°	1457.6	1439.9	1391.7	1484.9	1908.6	4289.2	14318.8	18026.9	18553.4	12925.4
67.5°	1260.1	1261.7	1263.3	1234.4	1362.9	1979.3	8750.2	14200.0	16842.2	11686.2
70°	1043.4	1057.9	1064.3	1064.3	1110.8	1298.6	3735.4	9732.6	13285.0	9162.7
72.5°	950.3	919.8	923.0	907.0	907.0	988.8	1504.1	5517.2	8369.7	5154.4
75°	775.3	794.6	797.8	786.6	749.6	754.5	892.5	2314.8	3581.3	2138.2
77.5°	669.4	669.4	675.8	667.8	638.9	565.0	595.5	897.3	1218.4	876.5
80°	537.8	536.2	563.4	579.5	534.5	417.4	380.4	496.0	541.0	385.3
82.5°	261.7	277.7	386.9	441.4	406.1	301.8	232.8	308.2	288.9	170.2
85°	152.5	144.5	173.4	245.6	232.8	166.9	112.4	160.5	150.9	86.7
87.5°	48.2	44.9	35.3	83.5	67.4	46.6	30.5	46.6	41.7	19.3
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
7780.6	0°	7780.6	7780.6	7780.6	7780.6	7780.6	7780.6	7780.6	7780.6	7780.6	7780.6
7806.3	2.5°	7692.3	7502.9	7315.1	7143.3	7039.0	6971.6	6904.2	6828.7	6799.8	6756.5
7827.2	5°	7615.3	7249.3	6923.4	6642.5	6387.3	6186.6	5984.4	5820.6	5746.8	5796.5
7893.0	7.5°	7570.3	7040.6	6538.2	6022.9	5526.9	5130.4	4785.2	4542.8	4433.7	4461.0
7957.2	10°	7530.2	6804.6	6038.9	5225.1	4512.3	4021.1	3668.0	3483.4	3414.4	3428.8
8043.9	12.5°	7493.3	6539.8	5437.0	4366.3	3608.6	3284.3	3183.2	3184.8	3197.6	3207.3
8181.9	15°	7486.9	6220.3	4764.4	3615.0	3120.6	3099.7	3208.9	3277.9	3314.8	3326.1
8297.5	17.5°	7477.2	5838.3	4078.9	3102.9	3001.8	3143.1	3244.2	3289.1	3318.0	3319.6
8409.9	20°	7438.7	5353.5	3446.5	2858.9	2976.1	3098.1	3160.7	3196.0	3220.1	3228.1
8495.0	22.5°	7319.9	4814.1	2953.7	2749.8	2873.4	2971.3	3045.2	3085.3	3099.7	3109.4
8511.0	25°	7106.4	4210.6	2613.3	2645.4	2730.5	2854.1	2913.5	2921.5	2916.7	2931.2
8470.9	27.5°	6827.1	3563.6	2401.4	2504.2	2613.3	2719.3	2751.4	2746.6	2736.9	2753.0
8401.9	30°	6490.0	2982.5	2266.6	2345.3	2494.6	2590.9	2619.8	2608.5	2589.3	2606.9
8366.5	32.5°	6133.6	2507.4	2155.8	2234.5	2396.6	2491.3	2520.2	2509.0	2494.6	2509.0
8406.7	35°	5801.4	2175.1	2053.1	2160.7	2319.6	2412.7	2449.6	2451.2	2451.2	2468.9
8512.6	37.5°	5496.4	1980.9	1968.0	2114.1	2266.6	2350.1	2403.1	2406.3	2337.2	2342.1
8692.4	40°	5213.8	1899.0	1929.5	2083.6	2215.2	2295.5	2298.7	2118.9	1992.1	1988.9
8897.9	42.5°	4982.7	1883.0	1940.7	2080.4	2178.3	2181.5	1955.2	1815.5	1780.2	1781.8
9087.3	45°	4766.0	1878.1	1966.4	2080.4	2123.7	1884.6	1732.1	1695.1	1698.3	1711.2
9172.4	47.5°	4523.6	1858.9	1971.2	2051.5	1966.4	1675.9	1630.9	1614.9	1608.5	1611.7
9153.1	50°	4258.7	1789.8	1910.2	1993.7	1696.7	1586.0	1529.8	1525.0	1533.0	1537.8
9045.6	52.5°	3979.4	1677.5	1805.9	1889.4	1573.1	1507.3	1444.7	1456.0	1491.3	1502.5
8933.2	55°	3796.4	1545.9	1667.8	1680.7	1486.5	1433.5	1380.5	1406.2	1472.0	1492.9
8865.8	57.5°	3748.2	1406.2	1510.5	1496.1	1375.7	1369.3	1337.2	1359.6	1443.1	1473.6
8862.6	60°	3733.8	1281.0	1356.4	1345.2	1268.1	1298.6	1290.6	1301.9	1330.7	1340.4
8830.5	62.5°	3621.4	1181.5	1218.4	1202.3	1171.8	1224.8	1244.1	1220.0	1242.5	1253.7
8610.5	65°	3335.7	1101.2	1083.5	1072.3	1085.1	1133.3	1171.8	1123.7	1144.5	1176.6
7763.0	67.5°	2863.8	992.0	943.9	956.7	996.9	1022.5	1072.3	1017.7	1035.4	1090.0
6252.4	70°	2316.4	854.0	810.6	847.6	886.1	939.1	947.1	910.2	951.9	1012.9
3815.7	72.5°	1639.0	714.3	683.8	759.3	772.1	841.1	823.5	805.8	863.6	884.5
1886.2	75°	1136.5	576.3	558.6	616.4	663.0	722.4	709.5	730.4	852.4	862.0
942.3	77.5°	719.1	447.9	436.6	473.5	537.8	603.6	624.4	862.0	1456.0	1513.7
489.6	80°	417.4	333.9	321.0	349.9	406.1	467.1	602.0	1057.9	959.9	948.7
219.9	82.5°	232.8	229.6	213.5	221.5	271.3	337.1	850.8	744.8	605.2	624.4
88.3	85°	109.2	134.8	115.6	110.8	152.5	394.9	568.3	425.4	282.5	276.1
19.3	87.5°	28.9	25.7	25.7	28.9	64.2	340.3	226.3	181.4	107.6	104.3
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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