

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: P951343

Luminaire Tested: **GALN-SB5C-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951343
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-SB5C-740-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40705 lumens
Efficiency: N/A
Efficacy: 163.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

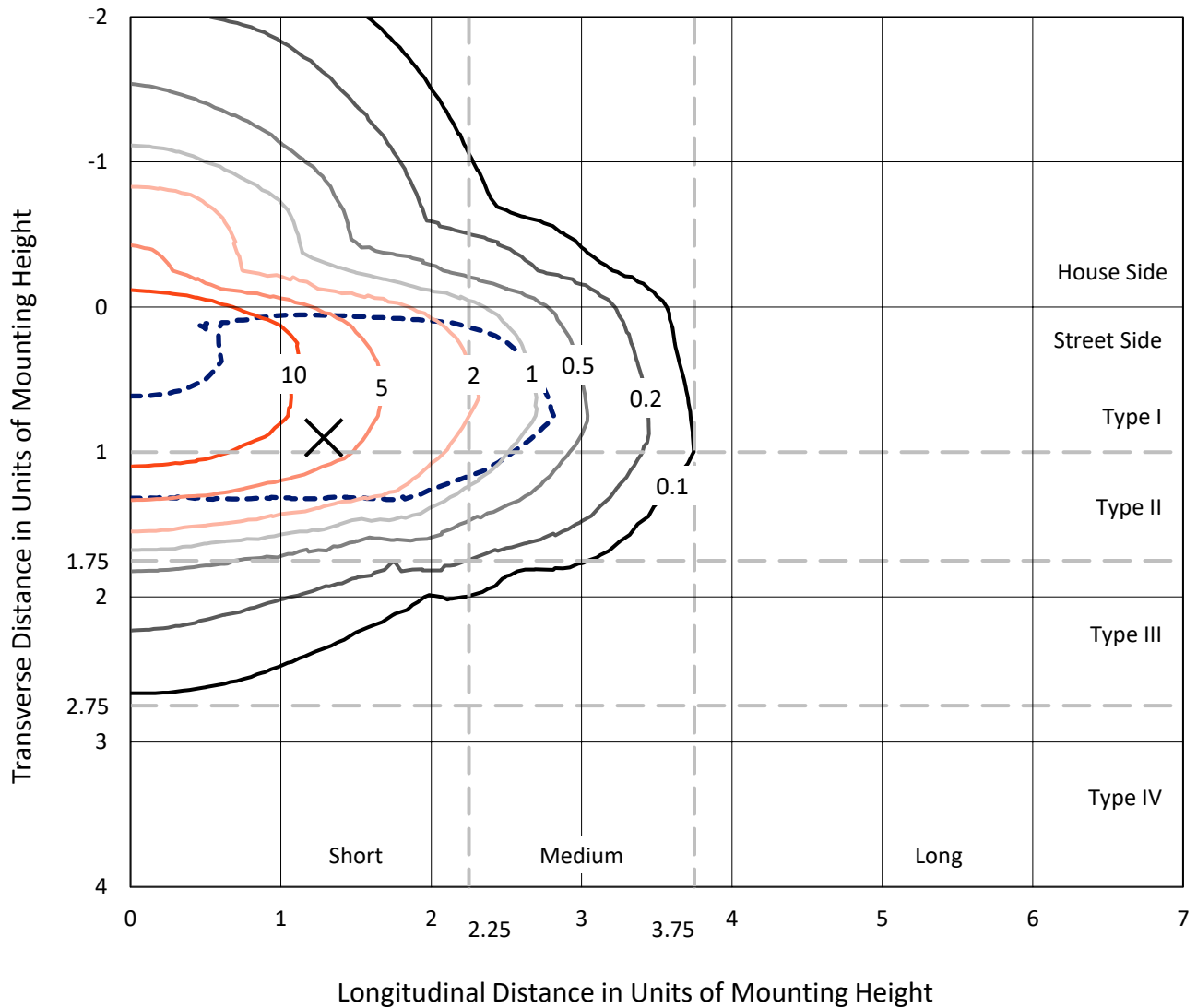
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

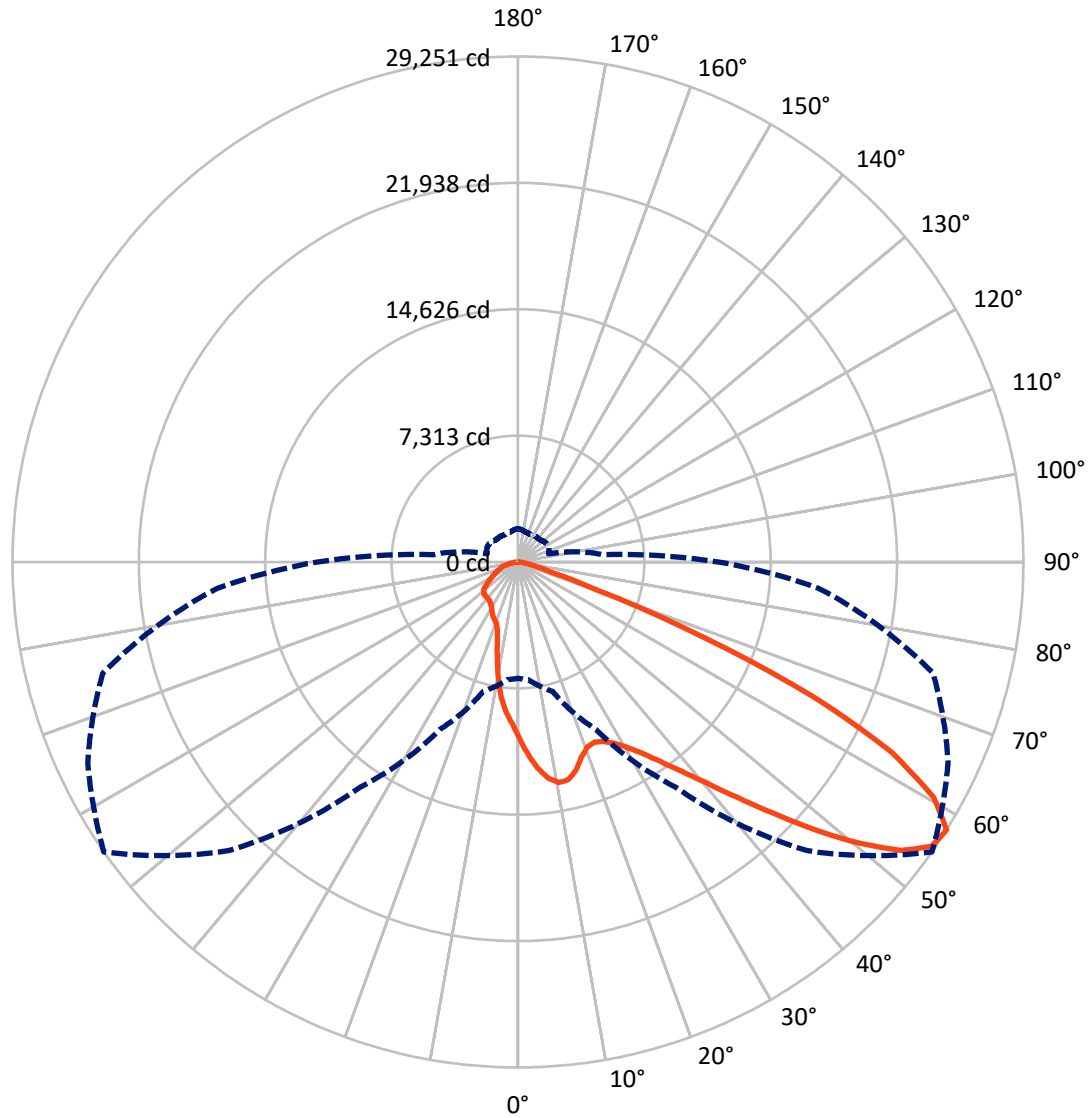
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 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	7365.4	0.0	7365.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	33339.6	0.0	33339.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	40705.0	0.0	40705.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	946.4	2.3
10°-20°	2388.9	5.9
20°-30°	3811.9	9.4
30°-40°	6035.2	14.8
40°-50°	9237.5	22.7
50°-60°	9894.3	24.3
60°-70°	6224.5	15.3
70°-80°	1840.7	4.5
80°-90°	325.5	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°	40705.0	100.0
0°-180°	40705.0	100.0

Coefficient of Utilization



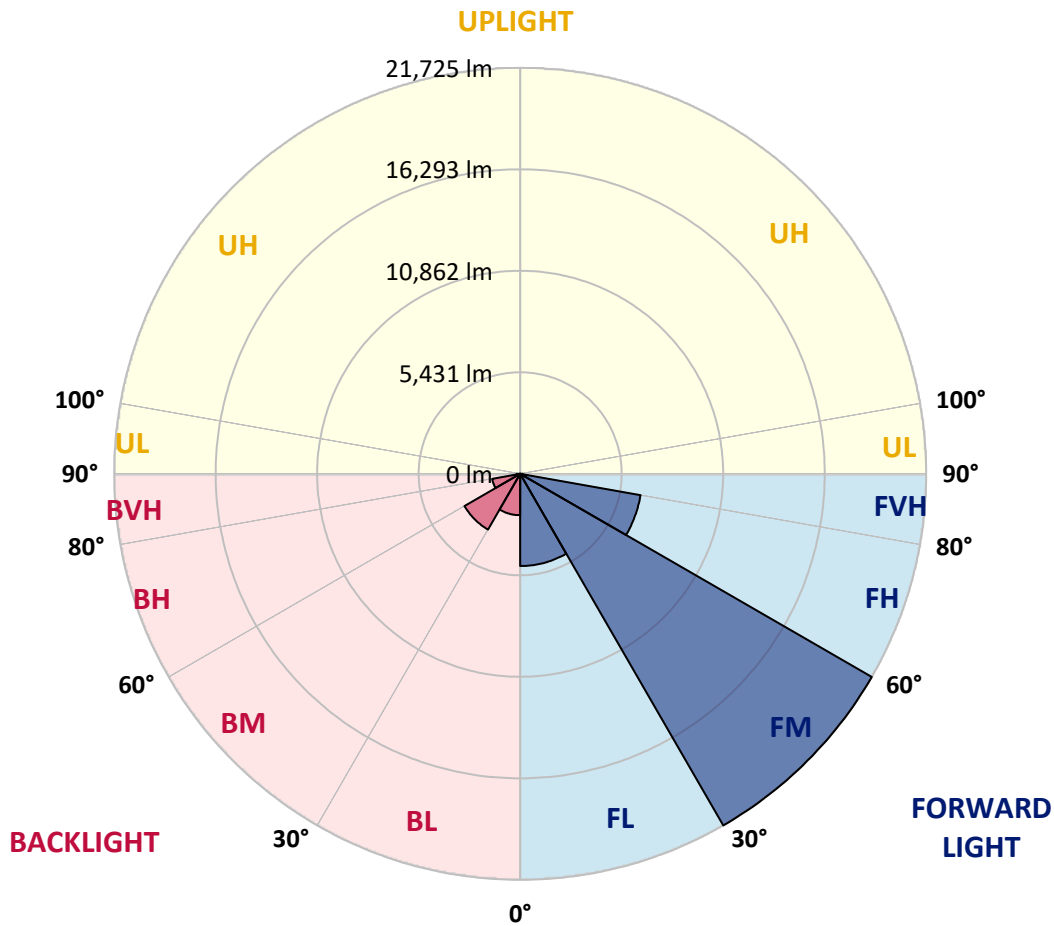
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4933.4	12.1			
FM (30°-60°)	21724.6	53.4			
FH (60°-80°)	6544.1	16.1			G3/7500
FVH (80°-90°)	137.5	0.3			G2/225
BL (0°-30°)	2213.8	5.4	B3/2500		
BM (30°-60°)	3442.5	8.5	B3/5000		
BH (60°-80°)	1521.1	3.7	B3/2500		G3/2500
BVH (80°-90°)	188.0	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10199.4	10199.4	10199.4	10199.4	10199.4	10199.4	10199.4	10199.4	10199.4	10199.4
2.5°	11701.8	11693.4	11739.7	11581.9	11474.5	11329.3	11137.9	10893.8	10630.7	10353.0
5°	12756.0	12682.4	12730.8	12612.9	12495.1	12276.3	11992.2	11594.5	11108.4	10555.0
7.5°	12589.8	12539.3	12663.4	12768.7	12857.0	12829.7	12621.4	12204.7	11577.6	10773.8
10°	11249.4	11192.6	11367.2	11731.3	12265.7	12730.8	12983.3	12724.5	12057.4	11013.7
12.5°	10066.8	10039.4	10155.2	10449.8	11043.2	11935.4	12937.0	13179.0	12556.1	11297.8
15°	9561.8	9528.1	9601.7	9751.1	10129.9	10961.1	12516.1	13490.4	13046.4	11626.0
17.5°	9450.2	9412.4	9443.9	9521.8	9765.9	10399.3	11880.7	13644.0	13557.8	11992.2
20°	9656.5	9624.9	9629.1	9624.9	9795.3	10298.3	11438.8	13585.1	14003.9	12328.9
22.5°	10155.2	10102.6	10104.7	9993.1	10085.7	10475.0	11323.0	13427.3	14401.6	12623.5
25°	10967.4	10872.7	10891.7	10607.6	10582.3	10870.6	11504.0	13305.2	14797.2	12859.1
27.5°	12078.5	11971.1	11914.3	11491.4	11289.4	11432.4	11872.2	13347.3	15171.7	13063.3
30°	13467.3	13336.8	13221.1	12621.4	12255.2	12202.6	12444.6	13625.1	15613.6	13277.9
32.5°	15169.6	15018.1	14807.7	14012.3	13496.7	13221.1	13185.3	14119.6	16131.3	13551.4
35°	17196.0	16998.2	16699.4	15670.4	15018.1	14454.2	14161.7	14832.9	16840.4	13963.9
37.5°	19283.4	19060.4	18786.8	17562.2	16760.4	15929.3	15352.7	15800.9	17785.2	14523.6
40°	21208.8	20958.4	20703.8	19613.8	18753.2	17751.5	16810.9	17025.6	18940.5	15192.8
42.5°	22345.1	22160.0	22063.2	21474.0	20809.0	19792.7	18624.8	18477.5	20238.8	15962.9
45°	22294.6	22218.9	22517.7	22761.8	22604.0	22040.0	20750.1	20083.1	21541.3	16630.0
47.5°	21103.6	21154.1	21821.2	23193.2	23797.1	24091.7	23170.0	21659.2	22673.4	17128.7
50°	17863.1	17905.2	19449.7	22408.3	24104.3	25764.6	25571.0	23197.4	23550.9	17433.8
52.5°	15298.0	15325.3	15988.2	20081.0	23090.1	26606.3	27734.2	24647.2	24192.7	17518.0
55°	11522.9	11617.6	12360.4	15754.6	20451.3	25939.2	29051.4	26141.2	24598.8	17526.4
57.5°	6731.5	6834.6	7752.1	10693.9	15895.6	23614.0	29251.3	27466.9	24874.5	17459.1
60°	3297.4	3341.6	3741.4	5620.5	9801.6	19134.0	27643.7	28108.7	25028.1	17423.3
62.5°	2222.1	2215.8	2232.6	2773.4	4829.3	12293.1	24293.7	26985.0	24946.0	17286.5
65°	1910.7	1887.5	1824.4	1946.4	2502.0	5622.6	18770.0	23630.8	24321.0	16943.5
67.5°	1651.8	1653.9	1656.1	1618.2	1786.5	2594.6	11470.3	18614.3	22077.9	15319.0
70°	1367.8	1386.7	1395.1	1395.1	1456.1	1702.3	4896.6	12758.1	17414.9	12011.1
72.5°	1245.7	1205.7	1209.9	1188.9	1188.9	1296.2	1971.7	7232.3	10971.6	6756.8
75°	1016.4	1041.6	1045.8	1031.1	982.7	989.0	1170.0	3034.3	4694.6	2802.9
77.5°	877.5	877.5	885.9	875.4	837.5	740.7	780.7	1176.3	1597.1	1148.9
80°	704.9	702.8	738.6	759.6	700.7	547.1	498.7	650.2	709.1	505.0
82.5°	343.0	364.0	507.1	578.7	532.4	395.6	305.1	404.0	378.8	223.1
85°	199.9	189.4	227.3	322.0	305.1	218.8	147.3	210.4	197.8	113.6
87.5°	63.1	58.9	46.3	109.4	88.4	61.0	40.0	61.0	54.7	25.3
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°
10199.4	0°	10199.4	10199.4	10199.4	10199.4	10199.4	10199.4	10199.4	10199.4	10199.4	10199.4
10233.0	2.5°	10083.6	9835.3	9589.1	9364.0	9227.2	9138.8	9050.4	8951.5	8913.6	8856.8
10260.4	5°	9982.6	9502.8	9075.7	8707.4	8372.9	8109.8	7844.7	7630.0	7533.3	7598.5
10346.6	7.5°	9923.7	9229.3	8570.7	7895.2	7245.0	6725.2	6272.8	5955.1	5812.0	5847.7
10430.8	10°	9871.1	8920.0	7916.2	6849.4	5915.1	5271.2	4808.2	4566.2	4475.8	4494.7
10544.5	12.5°	9822.7	8572.8	7127.1	5723.6	4730.4	4305.3	4172.7	4174.9	4191.7	4204.3
10725.4	15°	9814.3	8154.0	6245.4	4738.8	4090.7	4063.3	4206.4	4296.9	4345.3	4360.0
10876.9	17.5°	9801.6	7653.2	5346.9	4067.5	3935.0	4120.1	4252.7	4311.6	4349.5	4351.6
11024.2	20°	9751.1	7017.7	4517.8	3747.7	3901.3	4061.2	4143.3	4189.6	4221.1	4231.7
11135.7	22.5°	9595.4	6310.7	3871.8	3604.6	3766.6	3895.0	3991.8	4044.4	4063.3	4076.0
11156.8	25°	9315.6	5519.5	3425.7	3467.8	3579.3	3741.4	3819.2	3829.8	3823.4	3842.4
11104.2	27.5°	8949.4	4671.5	3148.0	3282.6	3425.7	3564.6	3606.7	3600.4	3587.8	3608.8
11013.7	30°	8507.5	3909.7	2971.2	3074.3	3270.0	3396.3	3434.2	3419.4	3394.2	3417.3
10967.4	32.5°	8040.4	3286.9	2826.0	2929.1	3141.7	3265.8	3303.7	3289.0	3270.0	3289.0
11020.0	35°	7604.8	2851.3	2691.3	2832.3	3040.7	3162.7	3211.1	3213.2	3213.2	3236.4
11158.9	37.5°	7205.0	2596.7	2579.8	2771.3	2971.2	3080.6	3150.1	3154.3	3063.8	3070.1
11394.6	40°	6834.6	2489.3	2529.3	2731.3	2903.9	3009.1	3013.3	2777.6	2611.4	2607.2
11663.9	42.5°	6531.6	2468.3	2544.1	2727.1	2855.5	2859.7	2563.0	2379.9	2333.6	2335.7
11912.2	45°	6247.6	2462.0	2577.7	2727.1	2783.9	2470.4	2270.5	2222.1	2226.3	2243.1
12023.7	47.5°	5929.8	2436.7	2584.0	2689.2	2577.7	2196.8	2137.9	2116.9	2108.5	2112.7
11998.5	50°	5582.6	2346.3	2504.1	2613.5	2224.2	2079.0	2005.4	1999.0	2009.6	2015.9
11857.5	52.5°	5216.5	2199.0	2367.3	2476.7	2062.2	1975.9	1893.8	1908.6	1954.9	1969.6
11710.2	55°	4976.6	2026.4	2186.3	2203.2	1948.5	1879.1	1809.7	1843.3	1929.6	1957.0
11621.8	57.5°	4913.4	1843.3	1980.1	1961.2	1803.4	1794.9	1752.8	1782.3	1891.7	1931.7
11617.6	60°	4894.5	1679.2	1778.1	1763.4	1662.4	1702.3	1691.8	1706.6	1744.4	1757.1
11575.5	62.5°	4747.2	1548.7	1597.1	1576.1	1536.1	1605.6	1630.8	1599.2	1628.7	1643.4
11287.3	65°	4372.7	1443.5	1420.4	1405.6	1422.5	1485.6	1536.1	1473.0	1500.3	1542.4
10176.2	67.5°	3754.0	1300.4	1237.3	1254.1	1306.7	1340.4	1405.6	1334.1	1357.2	1428.8
8196.1	70°	3036.4	1119.5	1062.7	1111.0	1161.6	1231.0	1241.5	1193.1	1247.8	1327.8
5001.8	72.5°	2148.5	936.4	896.4	995.3	1012.1	1102.6	1079.5	1056.3	1132.1	1159.4
2472.5	75°	1489.8	755.4	732.3	808.0	869.1	946.9	930.1	957.4	1117.4	1130.0
1235.2	77.5°	942.7	587.1	572.4	620.8	704.9	791.2	818.6	1130.0	1908.6	1984.3
641.8	80°	547.1	437.7	420.9	458.7	532.4	612.3	789.1	1386.7	1258.3	1243.6
288.3	82.5°	305.1	300.9	279.9	290.4	355.6	441.9	1115.3	976.4	793.3	818.6
115.7	85°	143.1	176.8	151.5	145.2	199.9	517.6	744.9	557.6	370.3	361.9
25.3	87.5°	37.9	33.7	33.7	37.9	84.2	446.1	296.7	237.8	141.0	136.8
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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