

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: P951369

Luminaire Tested: **GALN-SB5C-750-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5C-750-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39117 lumens
Efficiency: N/A
Efficacy: 156.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

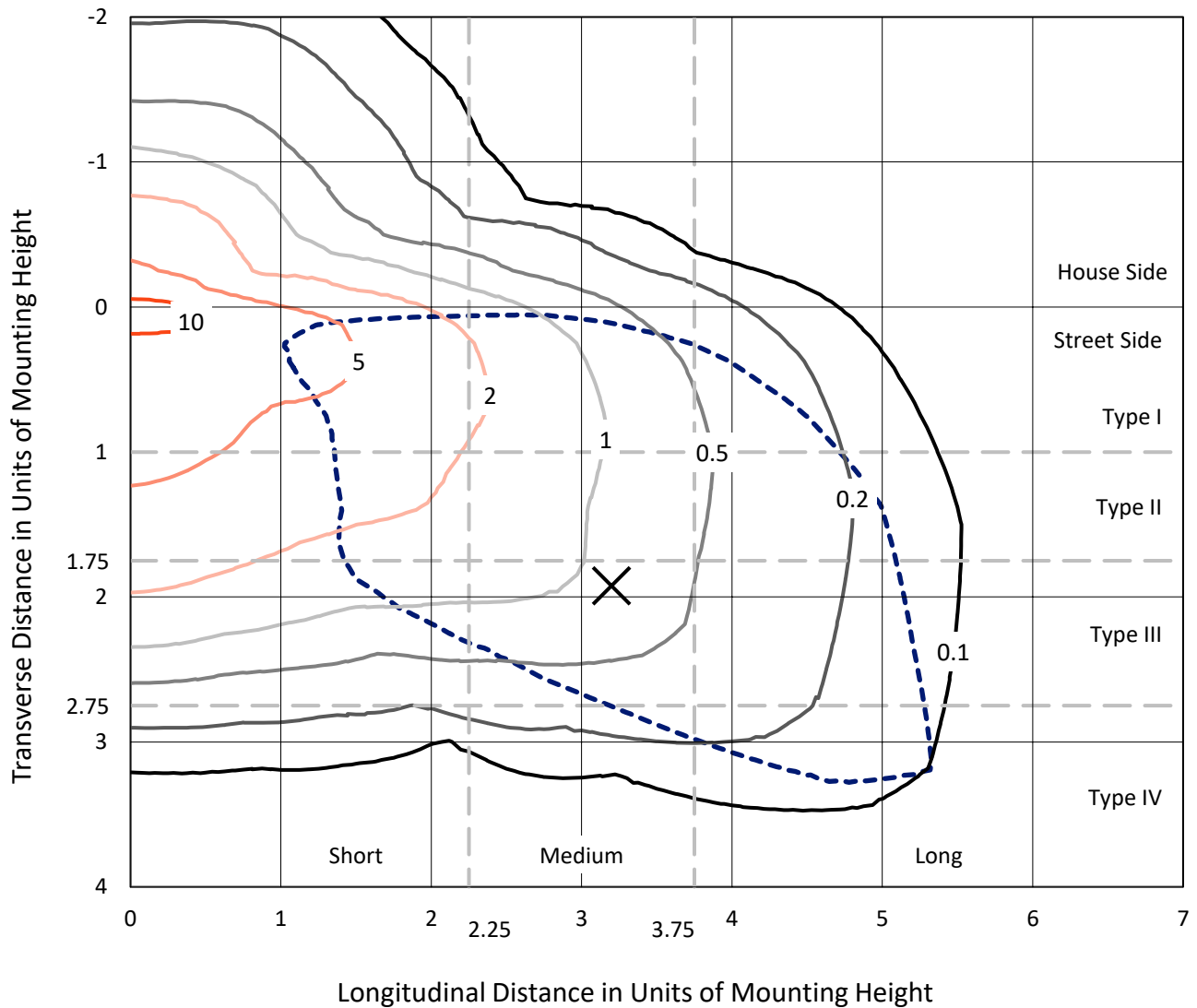
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

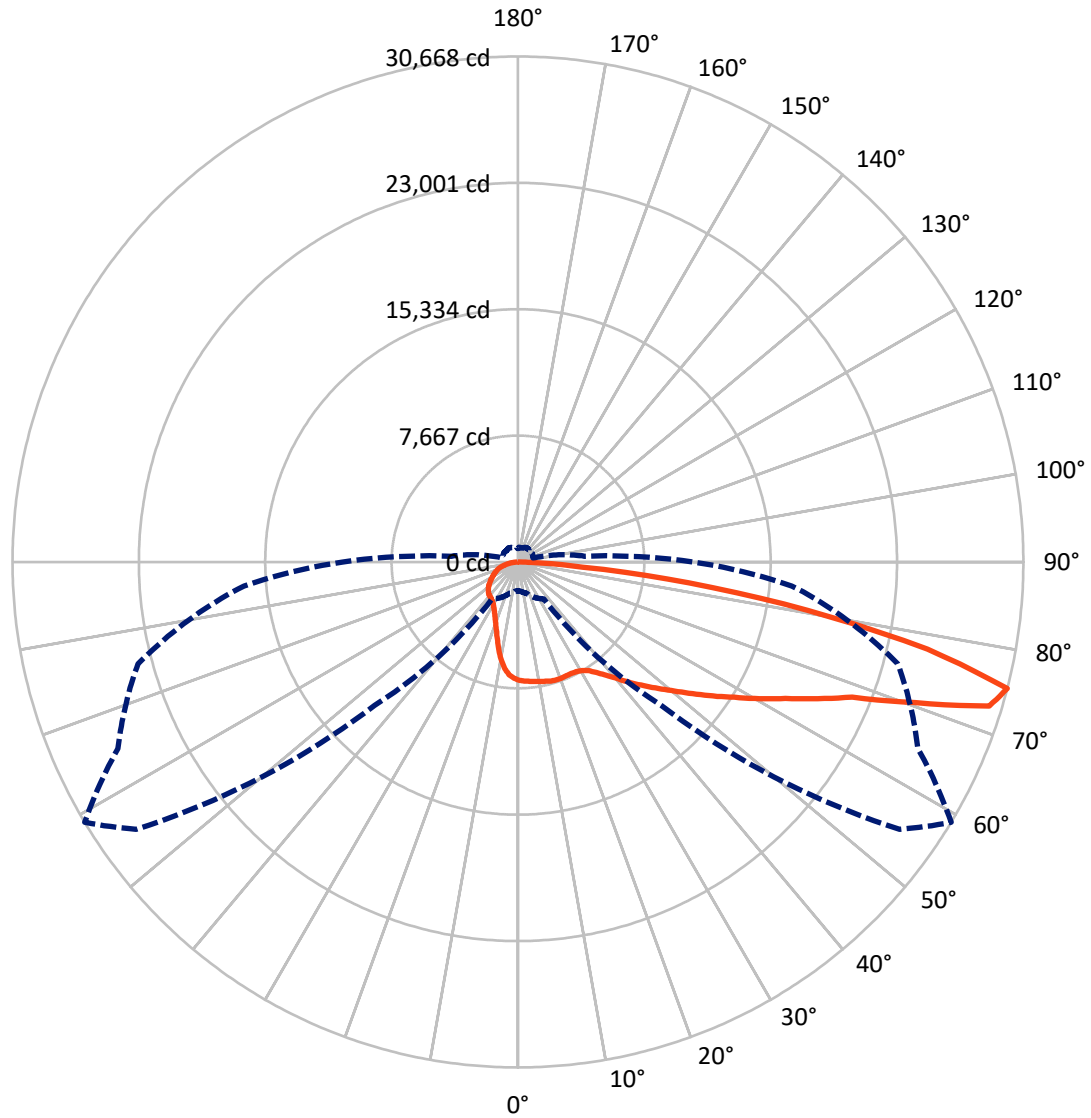
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7336.7	0.0	7336.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	31780.3	0.0	31780.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	39117.0	0.0	39117.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.8	1.6
10°-20°	1645.6	4.2
20°-30°	2499.5	6.4
30°-40°	3715.4	9.5
40°-50°	5525.5	14.1
50°-60°	7500.2	19.2
60°-70°	9156.5	23.4
70°-80°	7185.9	18.4
80°-90°	1244.8	3.2
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°	39117.0	100.0
0°-180°	39117.0	100.0

Coefficient of Utilization



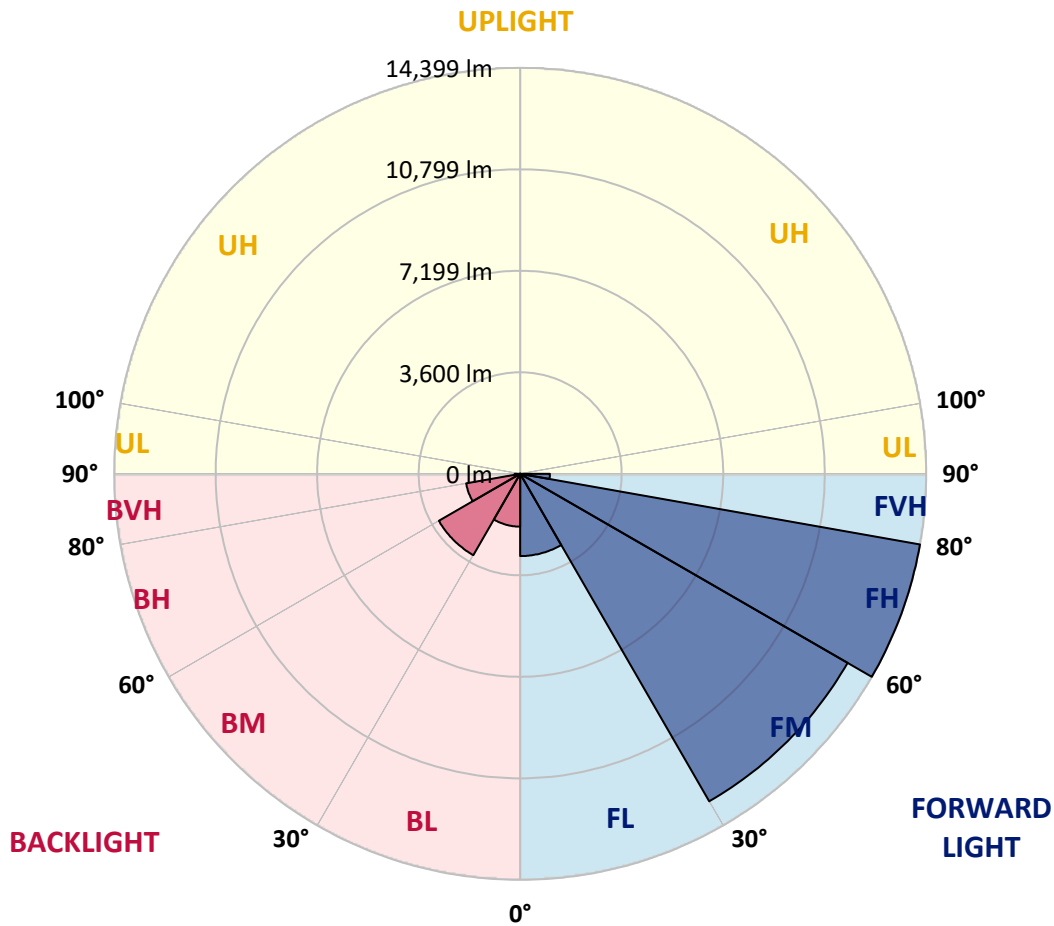
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2916.6	7.5			
FM (30°-60°)	13410.9	34.3			
FH (60°-80°)	14398.6	36.8			G5
FVH (80°-90°)	1054.2	2.7			G5
BL (0°-30°)	1872.2	4.8	B3/2500		
BM (30°-60°)	3330.1	8.5	B3/5000		
BH (60°-80°)	1943.8	5.0	B3/2500		G3/2500
BVH (80°-90°)	190.5	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	7179.8	7179.8	7179.8	7179.8	7179.8	7179.8	7179.8	7179.8	7179.8	7179.8
2.5°	7240.9	7215.6	7240.9	7230.3	7226.1	7217.7	7219.8	7234.5	7226.1	7236.7
5°	7192.5	7177.7	7203.0	7196.7	7224.0	7228.2	7255.6	7272.4	7282.9	7285.1
7.5°	7112.5	7097.8	7133.5	7163.0	7221.9	7238.8	7295.6	7322.9	7337.7	7362.9
10°	6820.0	6813.7	6902.1	7013.6	7152.5	7238.8	7325.0	7371.3	7394.5	7461.8
12.5°	6302.3	6310.8	6426.5	6641.1	6918.9	7196.7	7358.7	7426.0	7461.8	7546.0
15°	5807.8	5805.7	5932.0	6161.4	6550.7	7011.5	7375.5	7491.3	7552.3	7676.5
17.5°	5521.7	5513.2	5601.6	5776.3	6138.2	6727.4	7333.5	7527.0	7657.5	7813.2
20°	5469.1	5452.2	5498.5	5584.8	5841.5	6416.0	7224.0	7527.0	7741.7	7943.7
22.5°	5660.5	5633.2	5614.2	5603.7	5717.4	6159.3	7099.9	7501.8	7865.8	8131.0
25°	6045.6	6003.5	5906.7	5812.0	5778.4	6043.5	6990.5	7495.5	8051.0	8383.5
27.5°	6668.5	6615.9	6420.2	6192.9	5988.8	6102.4	6942.1	7533.4	8255.1	8650.7
30°	7440.8	7384.0	7137.8	6788.4	6422.3	6321.3	7003.1	7644.9	8516.1	9006.4
32.5°	8133.1	8070.0	7859.5	7503.9	7009.4	6700.1	7196.7	7857.4	8926.4	9500.9
35°	8747.5	8673.9	8484.5	8156.2	7729.1	7232.4	7546.0	8234.1	9509.3	10304.7
37.5°	9349.4	9263.1	9056.9	8709.7	8410.8	7941.6	8027.9	8718.1	10283.7	11281.1
40°	10022.7	9898.6	9648.2	9305.2	9014.8	8772.8	8661.3	9311.5	11070.7	12371.1
42.5°	10675.1	10557.2	10258.4	9965.9	9601.9	9532.4	9395.7	10005.9	11931.3	13568.5
45°	11377.9	11236.9	10875.0	10504.6	10275.2	10037.5	10106.9	10700.3	12775.1	14789.0
47.5°	12036.5	11878.7	11451.5	11039.1	10912.8	10462.5	10759.2	11464.2	13652.6	16026.3
50°	12392.2	12236.4	11880.8	11508.4	11409.5	10986.5	11466.3	12303.8	14572.2	17259.4
52.5°	12688.9	12520.5	12055.5	11849.3	11819.8	11556.8	12337.5	13263.3	15491.8	18349.4
55°	13004.5	12817.2	12223.8	12038.6	12173.3	12196.5	13370.7	14351.3	16464.0	19412.1
57.5°	13368.6	13130.8	12385.9	12198.6	12518.4	12945.6	14557.5	15479.2	17419.3	20396.9
60°	13711.6	13471.7	12697.3	12453.2	12890.9	13814.7	15919.0	16844.8	18500.9	21274.4
62.5°	13778.9	13581.1	12945.6	12943.5	13395.9	14828.9	17530.8	18223.2	19445.7	22141.3
65°	12613.1	12489.0	12112.3	12924.6	14119.8	16289.3	19325.8	19986.5	20647.3	22898.9
67.5°	9599.8	9616.6	9589.3	11156.9	13534.8	18387.3	21924.6	21874.1	22130.8	23749.0
70°	4389.5	4488.5	5132.4	7701.7	10843.4	18629.3	26221.6	25567.1	23993.1	24849.6
72.5°	2371.5	2447.3	2710.3	3730.9	6519.1	16562.9	29432.7	29897.8	26469.9	25590.3
75°	1740.2	1782.3	1965.4	2371.5	2737.7	12310.1	28281.7	30667.9	26779.2	23862.7
77.5°	1302.6	1321.5	1470.9	1879.1	1401.5	6489.6	22598.0	25398.8	22924.1	19605.7
80°	944.8	965.9	1077.4	1409.9	982.7	2373.6	15517.0	17827.5	15700.1	12497.4
82.5°	652.3	660.7	709.1	959.6	686.0	921.7	8804.4	10454.1	8764.4	4385.3
85°	393.5	404.0	425.1	559.7	389.3	437.7	3800.3	3930.8	2619.8	1047.9
87.5°	162.0	172.6	189.4	235.7	153.6	122.0	627.1	787.0	490.3	307.2
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°
7179.8	0°	7179.8	7179.8	7179.8	7179.8	7179.8	7179.8	7179.8	7179.8	7179.8	7179.8
7200.9	2.5°	7190.4	7175.6	7135.6	7080.9	7030.4	6967.3	6939.9	6916.8	6895.8	6855.8
7257.7	5°	7234.5	7194.6	7087.2	6948.4	6790.5	6618.0	6449.6	6333.9	6235.0	6161.4
7322.9	7.5°	7301.9	7226.1	7030.4	6746.4	6384.4	6014.1	5679.5	5441.7	5262.8	5197.6
7415.5	10°	7371.3	7280.8	6939.9	6439.1	5814.2	5243.9	4799.9	4555.8	4412.7	4366.4
7524.9	12.5°	7453.4	7320.8	6799.0	6012.0	5176.6	4551.6	4164.4	4021.3	3947.6	3922.4
7659.6	15°	7573.3	7354.5	6586.4	5477.5	4568.4	4046.6	3796.1	3697.2	3659.4	3657.3
7798.5	17.5°	7663.8	7360.8	6256.1	4905.1	4101.3	3741.4	3535.2	3497.3	3522.6	3560.5
7935.3	20°	7764.8	7304.0	5822.6	4383.2	3773.0	3474.2	3387.9	3413.2	3474.2	3528.9
8116.2	22.5°	7836.4	7200.9	5298.6	3977.1	3488.9	3320.6	3316.4	3369.0	3402.6	3430.0
8328.8	25°	7899.5	7026.2	4743.1	3636.2	3255.3	3228.0	3274.3	3257.4	3234.3	3257.4
8541.3	27.5°	7945.8	6750.6	4246.5	3337.4	3091.2	3164.9	3137.5	3099.6	3097.5	3110.1
8791.7	30°	7931.1	6382.3	3838.2	3053.3	2975.5	3047.0	2981.8	2975.5	2969.2	2975.5
9168.4	32.5°	7931.1	5963.6	3524.7	2857.6	2901.8	2874.5	2868.1	2853.4	2828.2	2826.1
9679.7	35°	7975.3	5544.8	3255.3	2752.4	2840.8	2775.6	2779.8	2744.0	2691.4	2666.1
10357.3	37.5°	8065.7	5208.1	2988.1	2701.9	2733.5	2731.4	2714.5	2653.5	2560.9	2481.0
11203.2	40°	8284.6	5109.2	2805.0	2678.8	2683.0	2708.2	2664.0	2546.2	2335.8	2205.3
12061.8	42.5°	8627.6	5275.5	2765.0	2621.9	2649.3	2674.6	2588.3	2314.7	2165.3	2087.5
12962.4	45°	9063.2	5565.8	2851.3	2539.9	2569.3	2613.5	2356.8	2226.3	2159.0	2161.1
13854.6	47.5°	9614.5	5871.0	3011.2	2468.3	2453.6	2478.9	2203.2	2123.2	2030.6	2053.8
14711.1	50°	10252.1	6180.3	3162.7	2371.5	2325.2	2243.2	2104.3	2028.5	1910.7	1856.0
15538.1	52.5°	10942.3	6479.1	3223.8	2253.7	2186.4	2091.7	2037.0	1944.4	1801.3	1710.8
16318.8	55°	11596.7	6750.6	3156.4	2112.7	2047.5	1973.8	1965.4	1908.6	1755.0	1628.7
17013.2	57.5°	12215.4	6977.8	2988.1	1969.6	1906.5	1862.3	1919.1	1891.8	1698.2	1536.1
17669.7	60°	12739.4	7133.5	2744.0	1824.4	1780.2	1757.1	1843.4	1834.9	1618.2	1437.2
18258.9	62.5°	13156.0	7194.6	2474.6	1685.5	1675.0	1632.9	1738.1	1738.1	1517.2	1340.4
18776.6	65°	13482.2	7135.6	2201.1	1548.8	1569.8	1506.7	1609.8	1597.2	1409.9	1254.2
19372.1	67.5°	13770.5	6942.1	1898.1	1414.1	1462.5	1382.5	1475.1	1445.6	1292.0	1167.9
19887.6	70°	13898.8	6491.7	1553.0	1279.4	1338.3	1260.5	1340.4	1285.7	1159.5	1075.3
19321.6	72.5°	12867.7	5395.4	1222.6	1138.4	1188.9	1125.8	1195.2	1132.1	1016.4	978.5
16684.9	75°	10645.6	4048.7	940.6	984.8	1022.7	974.3	1020.6	974.3	869.1	896.4
12324.8	77.5°	7731.2	2733.5	719.7	822.8	839.6	814.4	854.3	801.7	707.0	700.7
6142.4	80°	3844.5	1601.4	563.9	650.2	643.9	627.1	673.4	648.1	568.2	601.8
1658.2	82.5°	1113.2	686.0	410.3	456.6	444.0	448.2	481.9	494.5	740.7	734.4
515.6	85°	349.3	269.3	246.2	254.6	242.0	248.3	284.1	563.9	521.9	305.1
159.9	87.5°	90.5	92.6	61.0	65.2	67.3	80.0	90.5	343.0	164.1	107.3
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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<u>180°</u>
7179.8
6836.8
6100.3
5084.0
4294.9
3928.7
3665.7
3575.2
3547.8
3444.7
3272.2
3131.2
2998.6
2853.4
2691.4
2508.3
2222.1
2087.5
2171.6
2112.7
1870.7
1708.7
1628.7
1527.7
1430.9
1334.1
1245.7
1159.5
1058.5
946.9
<i>818.6</i>
669.2
595.5
751.2
330.4
113.6
0.0

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