

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: P956325

Luminaire Tested: **GALN-SB9A-735-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956325
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-SB9A-735-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39932 lumens
Efficiency: N/A
Efficacy: 156.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

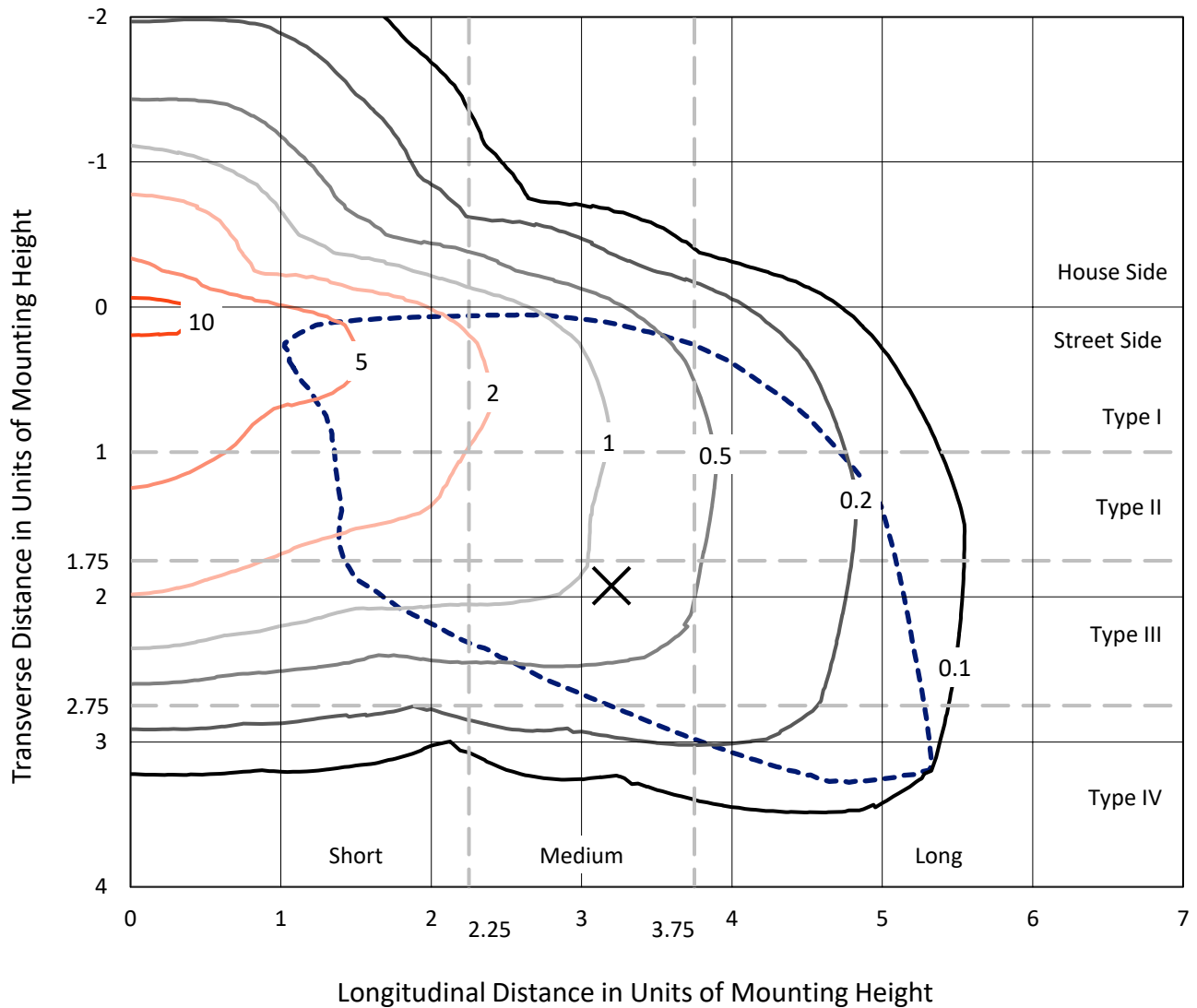
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

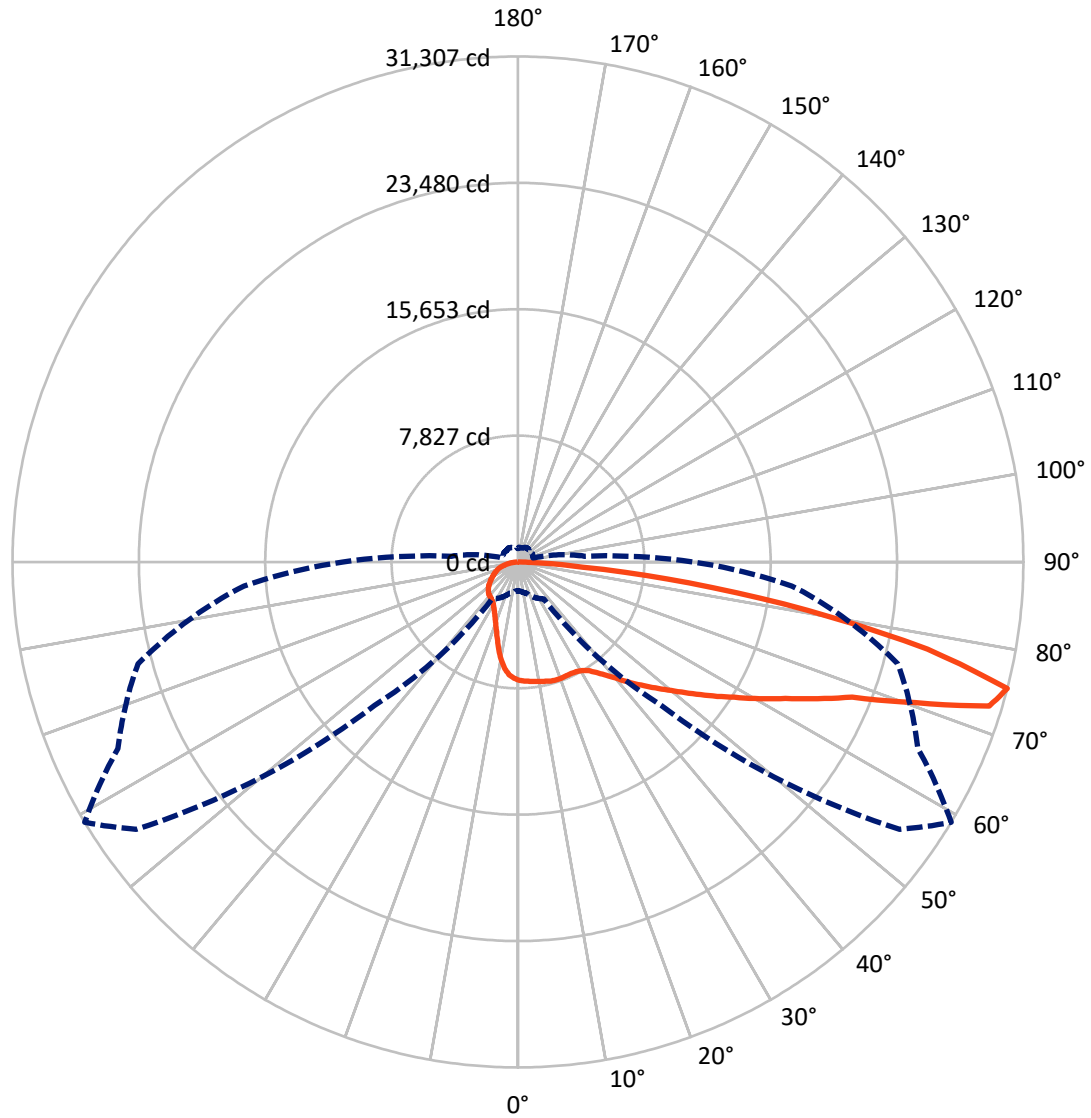
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	7489.5	0.0	7489.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	32442.5	0.0	32442.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	39932.0	0.0	39932.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.2	1.6
10°-20°	1679.8	4.2
20°-30°	2551.6	6.4
30°-40°	3792.8	9.5
40°-50°	5640.6	14.1
50°-60°	7656.4	19.2
60°-70°	9347.3	23.4
70°-80°	7335.6	18.4
80°-90°	1270.7	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°	39932.0	100.0
0°-180°	39932.0	100.0

Coefficient of Utilization



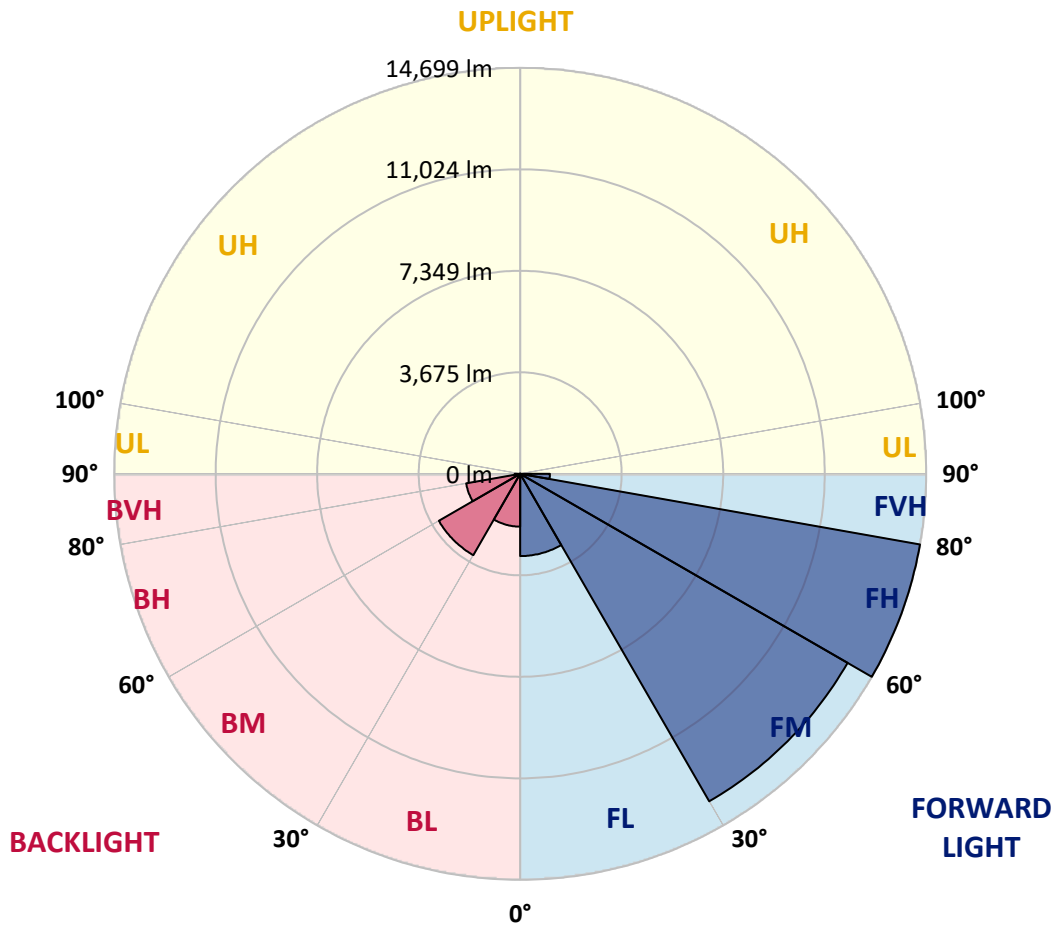
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2977.4	7.5			
FM (30°-60°)	13690.3	34.3			
FH (60°-80°)	14698.6	36.8			G5
FVH (80°-90°)	1076.2	2.7			G5
BL (0°-30°)	1911.2	4.8	B3/2500		
BM (30°-60°)	3399.5	8.5	B3/5000		
BH (60°-80°)	1984.3	5.0	B3/2500		G3/2500
BVH (80°-90°)	194.5	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°	7329.4	7329.4	7329.4	7329.4	7329.4	7329.4	7329.4	7329.4	7329.4	7329.4
2.5°	7391.7	7365.9	7391.7	7381.0	7376.7	7368.1	7370.2	7385.3	7376.7	7387.4
5°	7342.3	7327.3	7353.1	7346.6	7374.5	7378.8	7406.8	7423.9	7434.7	7436.8
7.5°	7260.7	7245.7	7282.2	7312.2	7372.4	7389.6	7447.6	7475.5	7490.5	7516.3
10°	6962.1	6955.7	7045.9	7159.7	7301.5	7389.6	7477.7	7524.9	7548.5	7617.3
12.5°	6433.7	6442.3	6560.4	6779.5	7063.1	7346.6	7512.0	7580.8	7617.3	7703.2
15°	5928.8	5926.7	6055.6	6289.7	6687.1	7157.6	7529.2	7647.4	7709.6	7836.4
17.5°	5636.7	5628.1	5718.3	5896.6	6266.1	6867.6	7486.2	7683.9	7817.1	7976.0
20°	5583.0	5565.8	5613.1	5701.1	5963.2	6549.7	7374.5	7683.9	7903.0	8109.2
22.5°	5778.5	5750.6	5731.2	5720.5	5836.5	6287.6	7247.8	7658.1	8029.7	8300.4
25°	6171.6	6128.6	6029.8	5933.1	5898.8	6169.4	7136.1	7651.6	8218.8	8558.2
27.5°	6807.4	6753.7	6554.0	6322.0	6113.6	6229.6	7086.7	7690.3	8427.1	8831.0
30°	7595.8	7537.8	7286.5	6929.9	6556.1	6453.0	7149.0	7804.2	8693.5	9194.0
32.5°	8302.5	8238.1	8023.3	7660.2	7155.4	6839.7	7346.6	8021.1	9112.4	9698.8
35°	8929.8	8854.6	8661.3	8326.2	7890.1	7383.1	7703.2	8405.6	9707.4	10519.4
37.5°	9544.2	9456.1	9245.6	8891.1	8586.1	8107.1	8195.1	8899.7	10497.9	11516.1
40°	10231.6	10104.8	9849.2	9499.0	9202.6	8955.6	8841.7	9505.5	11301.3	12628.9
42.5°	10897.5	10777.2	10472.1	10173.6	9801.9	9731.0	9591.4	10214.4	12179.9	13851.2
45°	11615.0	11471.0	11101.6	10723.5	10489.3	10246.6	10317.5	10923.3	13041.3	15097.1
47.5°	12287.3	12126.2	11690.1	11269.1	11140.2	10680.5	10983.4	11703.0	13937.1	16360.2
50°	12650.4	12491.4	12128.4	11748.1	11647.2	11215.4	11705.2	12560.1	14875.8	17619.0
52.5°	12953.2	12781.4	12306.7	12096.1	12066.1	11797.5	12594.5	13539.7	15814.6	18731.7
55°	13275.5	13084.3	12478.5	12289.5	12426.9	12450.6	13649.2	14650.3	16807.0	19816.5
57.5°	13647.1	13404.3	12643.9	12452.7	12779.2	13215.3	14860.8	15801.7	17782.2	20821.9
60°	13997.2	13752.3	12961.8	12712.7	13159.5	14102.5	16250.6	17195.8	18886.4	21717.6
62.5°	14066.0	13864.1	13215.3	13213.2	13675.0	15137.9	17896.1	18602.8	19850.9	22602.7
65°	12875.9	12749.2	12364.7	13193.8	14414.0	16628.7	19728.5	20403.0	21077.5	23376.0
67.5°	9799.8	9817.0	9789.0	11389.4	13816.8	18770.4	22381.4	22329.8	22591.9	24243.8
70°	4481.0	4582.0	5239.3	7862.2	11069.3	19017.4	26767.9	26099.8	24493.0	25367.3
72.5°	2420.9	2498.3	2766.8	3808.6	6654.9	16908.0	30045.9	30520.7	27021.4	26123.4
75°	1776.5	1819.5	2006.4	2420.9	2794.7	12566.6	28870.9	31306.9	27337.1	24359.8
77.5°	1329.7	1349.0	1501.5	1918.3	1430.7	6624.8	23068.8	25928.0	23401.8	20014.2
80°	964.5	986.0	1099.8	1439.2	1003.2	2423.1	15840.3	18199.0	16027.2	12757.8
82.5°	665.9	674.5	723.9	979.5	700.3	940.9	8987.8	10671.9	8947.0	4476.7
85°	401.7	412.4	433.9	571.4	397.4	446.8	3879.5	4012.7	2674.4	1069.8
87.5°	165.4	176.1	193.3	240.6	156.8	124.6	640.1	803.4	500.5	313.6
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°
7329.4	0°	7329.4	7329.4	7329.4	7329.4	7329.4	7329.4	7329.4	7329.4	7329.4	7329.4
7350.9	2.5°	7340.2	7325.1	7284.3	7228.5	7176.9	7112.5	7084.5	7060.9	7039.4	6998.6
7408.9	5°	7385.3	7344.5	7234.9	7093.1	6932.0	6755.9	6584.0	6465.9	6364.9	6289.7
7475.5	7.5°	7454.0	7376.7	7176.9	6886.9	6517.4	6139.4	5797.8	5555.1	5372.5	5305.9
7570.0	10°	7524.9	7432.5	7084.5	6573.3	5935.3	5353.1	4899.9	4650.7	4504.6	4457.4
7681.7	12.5°	7608.7	7473.4	6940.6	6137.2	5284.4	4646.4	4251.2	4105.1	4029.9	4004.1
7819.2	15°	7731.1	7507.7	6723.7	5591.6	4663.6	4130.9	3875.2	3774.3	3735.6	3733.5
7961.0	17.5°	7823.5	7514.2	6386.4	5007.3	4186.7	3819.4	3608.9	3570.2	3596.0	3634.6
8100.6	20°	7926.6	7456.2	5943.9	4474.6	3851.6	3546.6	3458.5	3484.3	3546.6	3602.4
8285.3	22.5°	7999.6	7350.9	5409.0	4060.0	3561.6	3389.8	3385.5	3439.2	3473.5	3501.5
8502.3	25°	8064.1	7172.6	4841.9	3712.0	3323.2	3295.2	3342.5	3325.3	3301.7	3325.3
8719.3	27.5°	8111.4	6891.2	4334.9	3406.9	3155.6	3230.8	3202.9	3164.2	3162.1	3174.9
8974.9	30°	8096.3	6515.3	3918.2	3116.9	3037.5	3110.5	3043.9	3037.5	3031.0	3037.5
9359.4	32.5°	8096.3	6087.8	3598.1	2917.2	2962.3	2934.3	2927.9	2912.9	2887.1	2884.9
9881.4	35°	8141.4	5660.3	3323.2	2809.8	2900.0	2833.4	2837.7	2801.2	2747.5	2721.7
10573.1	37.5°	8233.8	5316.6	3050.3	2758.2	2790.4	2788.3	2771.1	2708.8	2614.3	2532.6
11436.7	40°	8457.2	5215.7	2863.5	2734.6	2738.9	2764.6	2719.5	2599.2	2384.4	2251.2
12313.1	42.5°	8807.3	5385.4	2822.6	2676.6	2704.5	2730.3	2642.2	2362.9	2210.4	2130.9
13232.5	45°	9252.0	5681.8	2910.7	2592.8	2622.9	2668.0	2405.9	2272.7	2204.0	2206.1
14143.3	47.5°	9814.8	5993.3	3074.0	2519.8	2504.7	2530.5	2249.1	2167.5	2072.9	2096.6
15017.6	50°	10465.7	6309.1	3228.6	2420.9	2373.7	2289.9	2148.1	2070.8	1950.5	1894.7
15861.8	52.5°	11170.3	6614.1	3290.9	2300.7	2231.9	2135.2	2079.4	1984.9	1838.8	1746.4
16658.8	55°	11838.4	6891.2	3222.2	2156.7	2090.1	2014.9	2006.4	1948.4	1791.5	1662.7
17367.7	57.5°	12469.9	7123.2	3050.3	2010.7	1946.2	1901.1	1959.1	1931.2	1733.5	1568.1
18037.9	60°	13004.8	7282.2	2801.2	1862.4	1817.3	1793.7	1881.8	1873.2	1651.9	1467.2
18639.3	62.5°	13430.1	7344.5	2526.2	1720.7	1709.9	1667.0	1774.4	1774.4	1548.8	1368.4
19167.8	65°	13763.1	7284.3	2246.9	1581.0	1602.5	1538.1	1643.3	1630.4	1439.2	1280.3
19775.7	67.5°	14057.4	7086.7	1937.6	1443.5	1493.0	1411.3	1505.8	1475.8	1319.0	1192.2
20302.0	70°	14188.4	6627.0	1585.3	1306.1	1366.2	1286.7	1368.4	1312.5	1183.6	1097.7
19724.2	72.5°	13135.8	5507.8	1248.1	1162.1	1213.7	1149.3	1220.1	1155.7	1037.5	998.9
17032.5	75°	10867.4	4133.0	960.2	1005.3	1044.0	994.6	1041.8	994.6	887.2	915.1
12581.6	77.5°	7892.2	2790.4	734.7	839.9	857.1	831.3	872.1	818.4	721.8	715.3
6270.4	80°	3924.6	1634.7	575.7	663.8	657.3	640.1	687.4	661.6	580.0	614.4
1692.7	82.5°	1136.4	700.3	418.9	466.1	453.3	457.6	491.9	504.8	756.1	749.7
526.3	85°	356.6	275.0	251.3	259.9	247.0	253.5	290.0	575.7	532.7	311.5
163.3	87.5°	92.4	94.5	62.3	66.6	68.7	81.6	92.4	350.1	167.6	109.6
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>
7329.4
6979.3
6227.4
5189.9
4384.3
4010.6
3742.0
3649.7
3621.8
3516.5
3340.3
3196.4
3061.1
2912.9
2747.5
2560.6
2268.4
2130.9
2216.9
2156.7
1909.7
1744.3
1662.7
1559.5
1460.7
1361.9
1271.7
1183.6
1080.5
966.7
835.6
683.1
607.9
766.9
337.3
116.0
0.0

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