

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: P953845

Luminaire Tested: **GALN-SB7B-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-740-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42111 lumens
Efficiency: N/A
Efficacy: 164.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

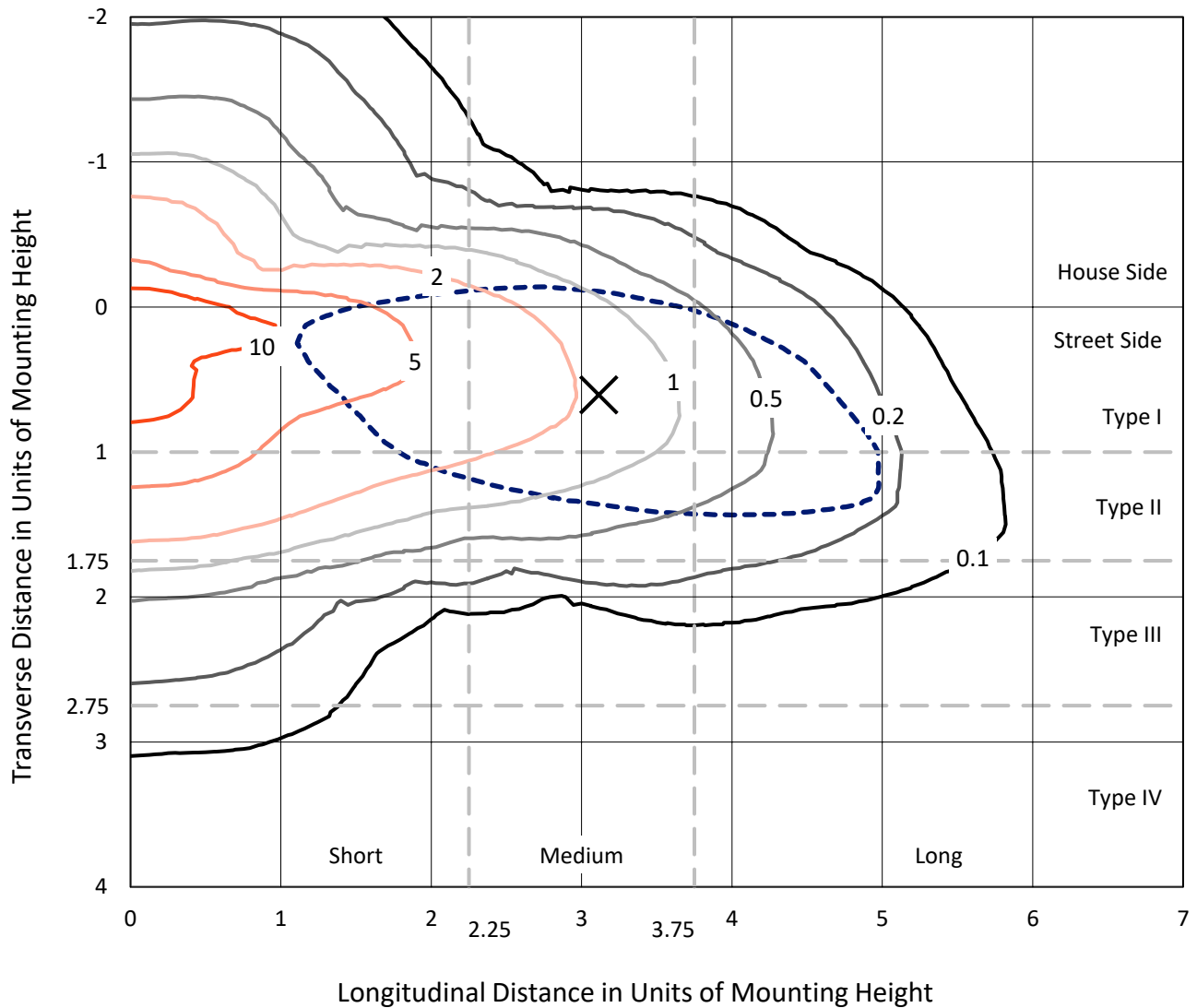
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

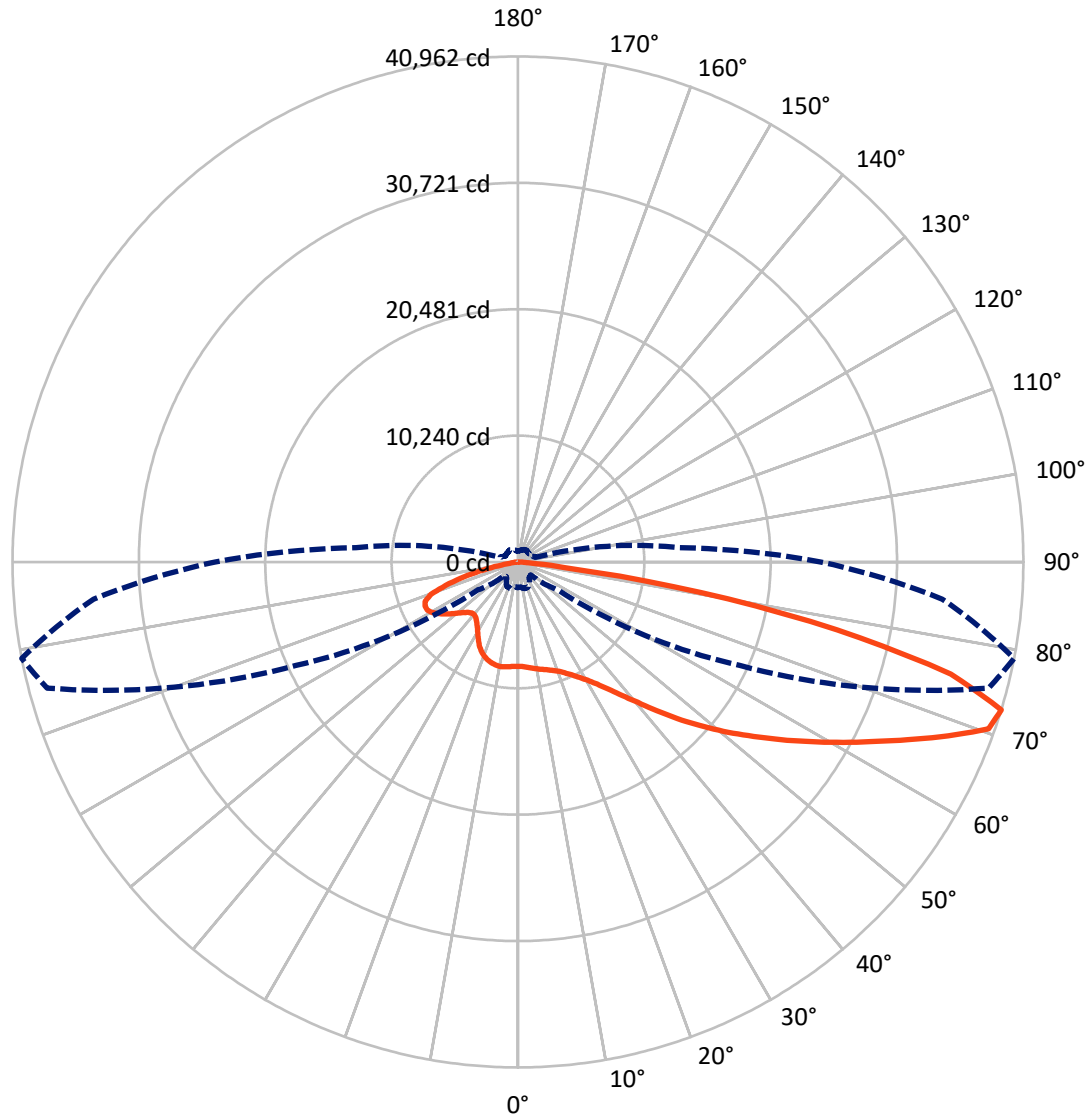
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9266.7	0.0	9266.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	32844.3	0.0	32844.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	42111.0	0.0	42111.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	767.3	1.8
10°-20°	2006.2	4.8
20°-30°	3237.1	7.7
30°-40°	4858.5	11.5
40°-50°	6892.0	16.4
50°-60°	8703.7	20.7
60°-70°	8839.8	21.0
70°-80°	6024.7	14.3
80°-90°	781.7	1.9
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°	42111.0	100.0
0°-180°	42111.0	100.0

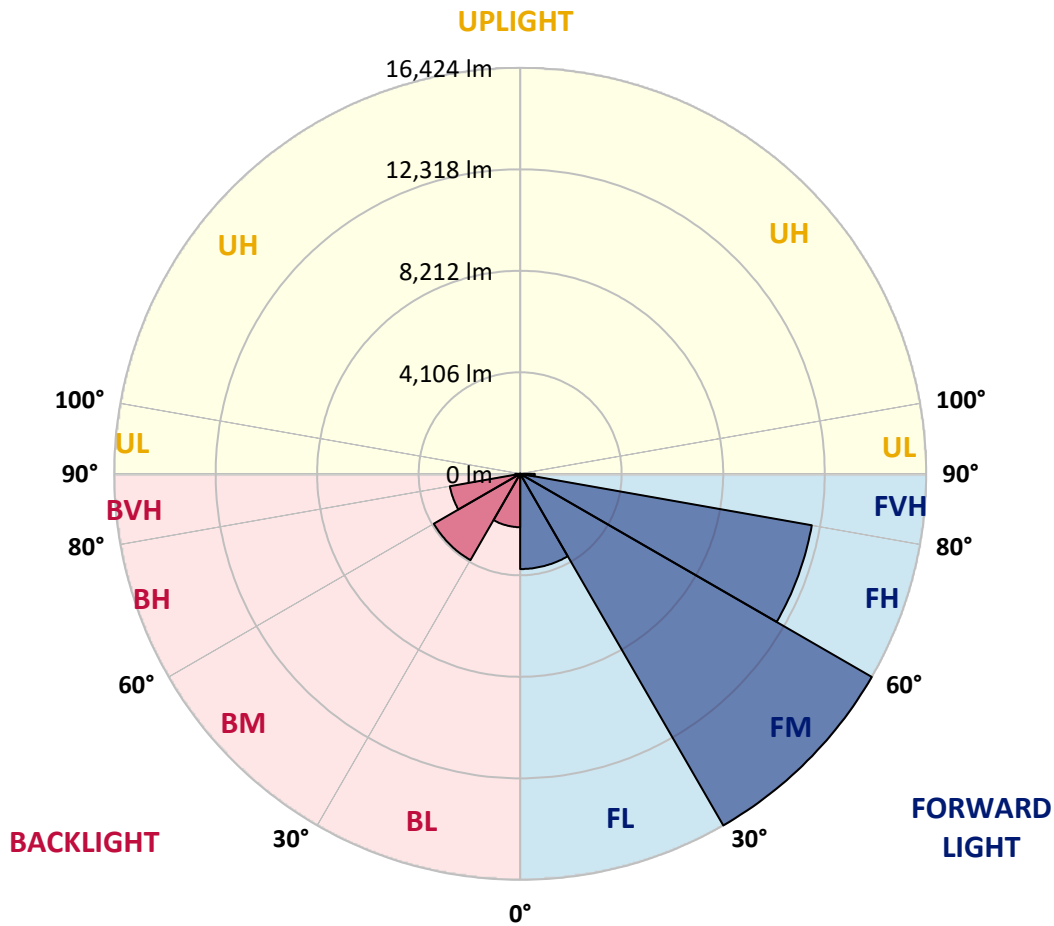


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3852.1	9.1			
FM (30°-60°)	16424.2	39.0			
FH (60°-80°)	11979.2	28.4			G4/12000
FVH (80°-90°)	588.8	1.4			G4/750
BL (0°-30°)	2158.5	5.1	B3/2500		
BM (30°-60°)	4030.1	9.6	B3/5000		
BH (60°-80°)	2885.4	6.9	B4/5000		G4/5000
BVH (80°-90°)	192.8	0.5			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	8453.4	8453.4	8453.4	8453.4	8453.4	8453.4	8453.4	8453.4	8453.4	8453.4
2.5°	8457.8	8417.7	8442.2	8433.3	8444.5	8457.8	8462.3	8469.0	8491.3	8489.0
5°	8440.0	8399.9	8433.3	8422.2	8451.2	8482.3	8509.1	8533.6	8569.2	8584.8
7.5°	8402.2	8375.4	8408.8	8442.2	8495.7	8542.5	8580.4	8636.0	8687.3	8696.2
10°	8181.6	8161.6	8239.5	8326.4	8473.4	8600.4	8682.8	8747.4	8803.1	8812.0
12.5°	7952.2	7927.7	8014.6	8132.6	8371.0	8600.4	8774.1	8858.8	8907.8	8936.8
15°	7914.3	7894.3	7943.3	8045.7	8244.0	8540.3	8836.5	8992.4	9034.8	9068.2
17.5°	8097.0	8059.1	8079.2	8114.8	8230.6	8484.6	8885.5	9143.9	9208.5	9244.1
20°	8520.2	8466.7	8435.6	8364.3	8344.2	8493.5	8881.1	9326.6	9411.2	9455.8
22.5°	9083.8	9048.1	8981.3	8800.9	8604.9	8602.6	8965.7	9560.5	9718.6	9760.9
25°	9765.4	9711.9	9627.3	9382.3	9005.8	8818.7	9108.3	9858.9	10124.0	10135.1
27.5°	10549.5	10469.3	10353.4	10030.5	9522.6	9157.3	9326.6	10202.0	10589.6	10585.1
30°	11375.9	11295.7	11173.2	10781.1	10141.8	9613.9	9629.5	10571.7	11142.0	11117.5
32.5°	11979.5	11919.4	11894.9	11591.9	10854.6	10153.0	9977.0	10981.6	11823.6	11801.3
35°	12442.8	12364.9	12393.8	12240.1	11632.0	10756.6	10402.5	11469.4	12652.2	12650.0
37.5°	12901.7	12832.7	12857.2	12754.7	12351.5	11522.9	10921.5	12066.4	13679.1	13728.1
40°	13320.5	13247.0	13345.0	13249.2	12910.6	12338.2	11511.7	12741.3	14868.6	14962.2
42.5°	13572.2	13514.3	13676.9	13679.1	13396.2	13026.5	12160.0	13485.3	16245.2	16454.6
45°	13659.1	13639.0	13884.0	13935.3	13826.1	13425.2	12743.6	14296.1	17728.7	18102.9
47.5°	13565.5	13527.6	13866.2	14055.6	14142.4	13612.3	13226.9	15173.8	19243.4	19791.4
50°	13093.3	13019.8	13523.2	13921.9	14231.5	13734.8	13714.8	16187.3	20965.3	21564.5
52.5°	12244.6	12188.9	12761.4	13454.1	14035.5	13794.9	14262.7	17294.4	22600.3	23375.4
55°	11159.8	11086.3	11716.7	12621.0	13547.7	13774.9	14810.7	18532.8	24529.3	25315.6
57.5°	9440.2	9293.2	10090.6	11159.8	12752.5	13750.4	15380.9	19764.7	26489.5	27431.7
60°	6932.0	6713.7	7691.6	8959.0	11197.7	13512.0	16087.0	21145.7	28841.7	29690.4
62.5°	4036.2	3909.3	4548.6	5731.4	8440.0	12108.7	16483.5	22751.7	31153.9	32044.9
65°	3134.1	3098.5	3154.1	3245.5	4697.8	9065.9	15260.6	24317.7	34094.2	34717.9
67.5°	2866.8	2840.1	2864.6	2693.1	2383.4	5049.8	12073.1	24714.2	37243.9	37622.6
70°	2548.3	2517.1	2597.3	2450.3	1875.6	2296.6	7800.7	23275.2	39749.8	40460.4
72.5°	2076.0	2040.4	2227.5	2160.7	1579.3	1474.6	3918.2	19856.0	39487.0	40961.6
75°	1594.9	1574.8	1797.6	1853.3	1287.5	1160.5	1880.0	14759.5	34749.1	36234.8
77.5°	1238.5	1222.9	1336.5	1539.2	1038.0	899.9	1156.1	9362.2	26186.6	26447.2
80°	928.9	884.3	989.0	1191.7	808.6	657.1	784.1	5459.6	16552.6	15004.5
82.5°	581.4	559.1	646.0	795.2	570.2	452.2	510.1	3016.0	6633.5	3907.0
85°	331.9	323.0	351.9	454.4	309.6	260.6	291.8	1332.0	1211.8	833.1
87.5°	133.7	129.2	160.4	202.7	113.6	95.8	102.5	320.8	267.3	247.3
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8453.4	0°	8453.4	8453.4	8453.4	8453.4	8453.4	8453.4	8453.4	8453.4	8453.4	8453.4
8486.8	2.5°	8477.9	8477.9	8446.7	8397.7	8342.0	8306.4	8248.5	8232.9	8172.7	8154.9
8562.5	5°	8580.4	8562.5	8466.7	8328.6	8139.3	7965.6	7774.0	7653.7	7484.4	7424.3
8711.8	7.5°	8709.5	8660.5	8495.7	8192.8	7796.3	7406.5	7001.0	6693.7	6399.6	6294.9
8834.3	10°	8827.6	8758.6	8477.9	7947.7	7261.7	6586.7	5940.8	5488.6	5145.5	5005.2
8970.2	12.5°	8945.7	8818.7	8359.8	7540.1	6502.1	5586.6	4898.3	4546.3	4334.7	4165.4
9081.5	15°	9057.0	8878.8	8177.2	6994.4	5669.0	4740.1	4232.3	3951.6	3782.3	3670.9
9244.1	17.5°	9186.2	8930.1	7903.2	6301.6	4876.0	4154.3	3740.0	3570.7	3537.3	3523.9
9466.9	20°	9366.7	8976.8	7542.3	5526.4	4292.4	3686.5	3472.7	3457.1	3454.9	3448.2
9734.2	22.5°	9560.5	9032.5	7065.6	4822.5	3795.7	3394.7	3356.9	3325.7	3305.6	3303.4
10057.2	25°	9789.9	9050.4	6468.7	4245.6	3372.4	3256.6	3212.1	3165.3	3151.9	3151.9
10424.7	27.5°	10012.6	8990.2	5773.7	3744.4	3134.1	3129.6	3071.7	3056.1	3053.9	3060.6
10843.5	30°	10235.4	8876.6	5083.2	3281.1	2996.0	2996.0	2975.9	2987.1	2996.0	3018.3
11418.2	32.5°	10536.1	8756.3	4506.2	2938.1	2875.7	2853.4	2873.5	2895.8	2904.7	2933.6
12173.3	35°	10977.1	8671.7	4047.4	2751.0	2751.0	2722.0	2733.1	2728.7	2708.6	2695.3
13086.6	37.5°	11560.8	8667.2	3668.7	2664.1	2646.3	2641.8	2644.0	2615.1	2537.1	2443.6
14191.4	40°	12262.4	8787.5	3376.9	2604.0	2590.6	2617.3	2604.0	2526.0	2312.2	2149.5
15550.2	42.5°	13204.7	9130.5	3189.8	2530.4	2570.5	2604.0	2550.5	2281.0	2136.2	2027.0
17098.3	45°	14313.9	9687.4	3094.0	2452.5	2532.7	2572.8	2314.4	2196.3	2080.5	1949.1
18786.8	47.5°	15570.3	10389.1	3071.7	2379.0	2448.0	2472.5	2214.1	2160.7	2029.3	1886.7
20484.1	50°	16938.0	11219.9	3131.9	2292.1	2325.5	2240.9	2180.7	2131.7	1995.8	1855.5
22223.8	52.5°	18352.4	12135.4	3252.2	2174.0	2203.0	2109.4	2167.4	2125.0	1975.8	1786.5
24021.4	55°	19742.4	13057.6	3368.0	2035.9	2078.3	1991.4	2129.5	2098.3	1884.5	1670.6
25939.3	57.5°	21154.6	13975.4	3481.6	1913.4	1958.0	1877.8	2069.4	2027.0	1782.0	1563.7
28033.2	60°	22622.5	14866.4	3535.1	1795.4	1826.6	1773.1	1978.0	1904.5	1666.2	1454.6
30091.4	62.5°	23996.9	15608.1	3448.2	1677.3	1697.4	1675.1	1857.7	1759.7	1550.3	1332.0
32236.5	65°	25375.7	16049.2	3180.9	1561.5	1565.9	1554.8	1688.4	1603.8	1414.5	1225.1
34114.2	67.5°	26625.4	16296.4	2755.4	1436.7	1425.6	1421.1	1530.3	1434.5	1283.0	1118.2
35542.1	70°	26890.4	15668.3	2105.0	1289.7	1289.7	1278.6	1356.6	1258.5	1138.3	1004.6
34519.7	72.5°	24560.5	13180.1	1494.7	1122.7	1140.5	1118.2	1182.8	1100.4	991.2	902.1
29750.6	75°	19804.8	9665.1	1087.0	951.1	982.3	944.5	1004.6	946.7	853.1	850.9
20502.0	77.5°	13607.8	5976.4	788.5	784.1	806.4	757.4	826.4	795.2	710.6	672.7
8923.4	80°	5807.1	2383.4	574.7	605.9	605.9	561.3	641.5	650.4	576.9	559.1
1721.9	82.5°	1156.1	677.2	403.2	416.5	392.0	378.7	454.4	503.4	695.0	772.9
519.0	85°	347.5	249.5	242.8	227.2	200.5	202.7	267.3	505.6	623.7	356.4
171.5	87.5°	95.8	62.4	64.6	51.2	42.3	55.7	91.3	383.1	209.4	89.1
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>
8453.4
8183.9
7468.8
6308.3
5036.4
4221.1
3691.0
3532.8
3470.5
3327.9
3165.3
3078.4
3033.9
2958.1
2726.5
2445.8
2145.1
2022.6
1940.2
1875.6
1839.9
1773.1
1659.5
1559.3
1447.9
1329.8
1211.8
1104.8
1000.1
875.4
766.3
630.4
559.1
775.2
307.4
75.7
0.0

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