

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: P954076

Luminaire Tested: **GALN-SB7B-940-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954076  
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-940-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

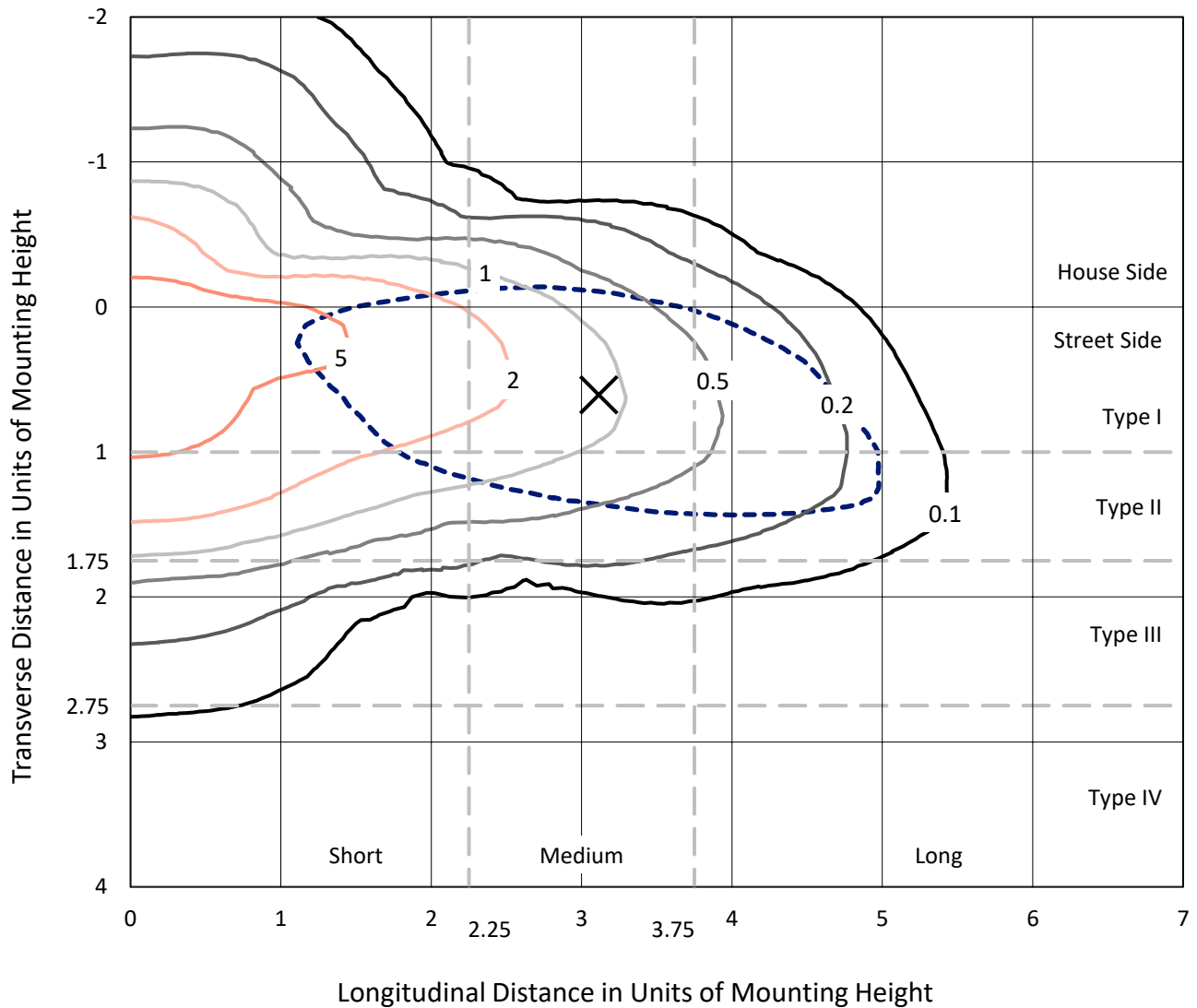
Lumens per Lamp: N/A  
Luminaire Lumens: 28843 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

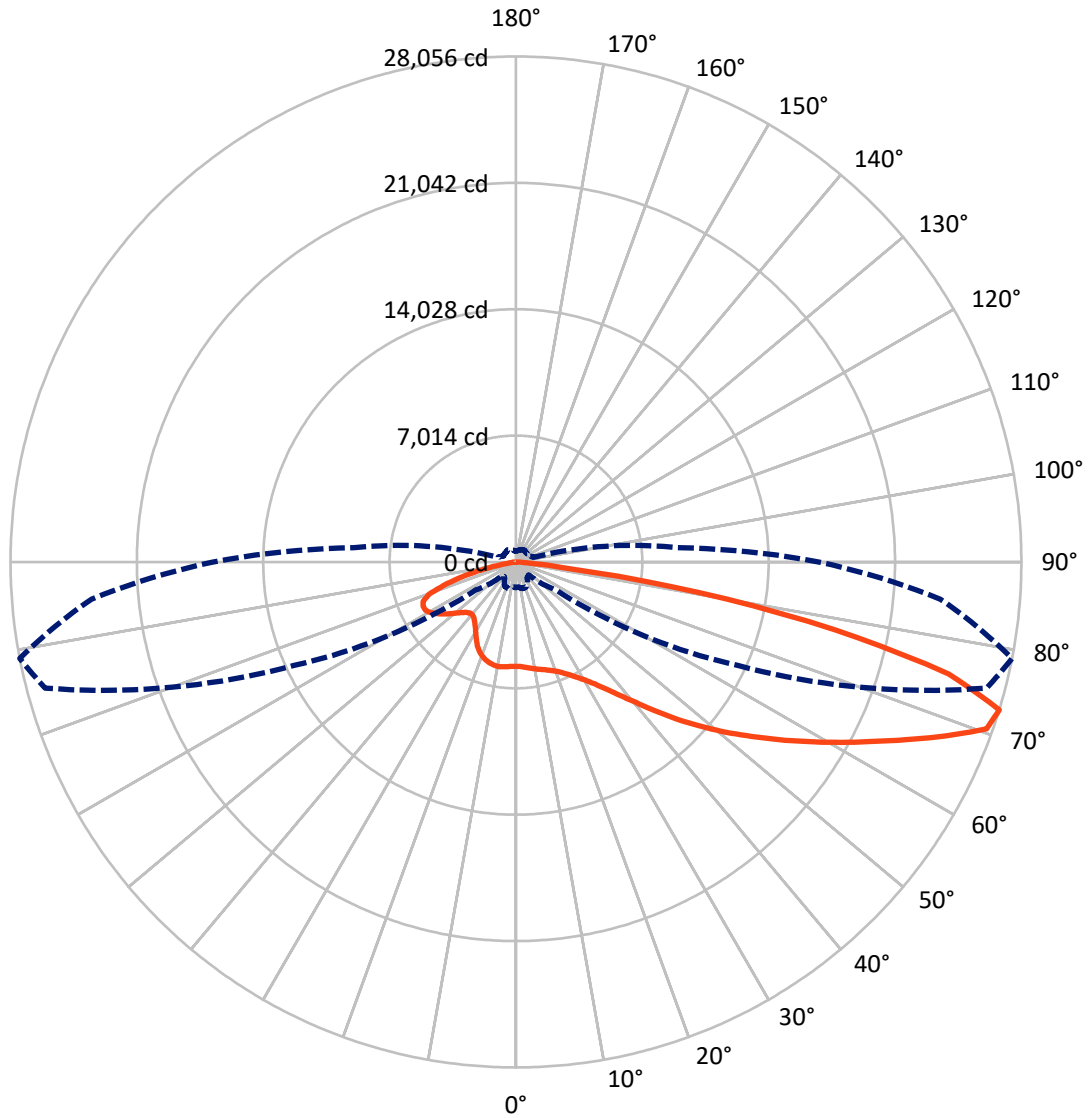
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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
<b>House Side</b>	Lumens	6347.0	0.0	6347.0
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	22495.9	0.0	22495.9
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	28843.0	0.0	28843.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	525.6	1.8
10°-20°	1374.1	4.8
20°-30°	2217.2	7.7
30°-40°	3327.7	11.5
40°-50°	4720.5	16.4
50°-60°	5961.4	20.7
60°-70°	6054.6	21.0
70°-80°	4126.5	14.3
80°-90°	535.4	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°	28843.0	100.0
0°-180°	28843.0	100.0

**Coefficient of Utilization**



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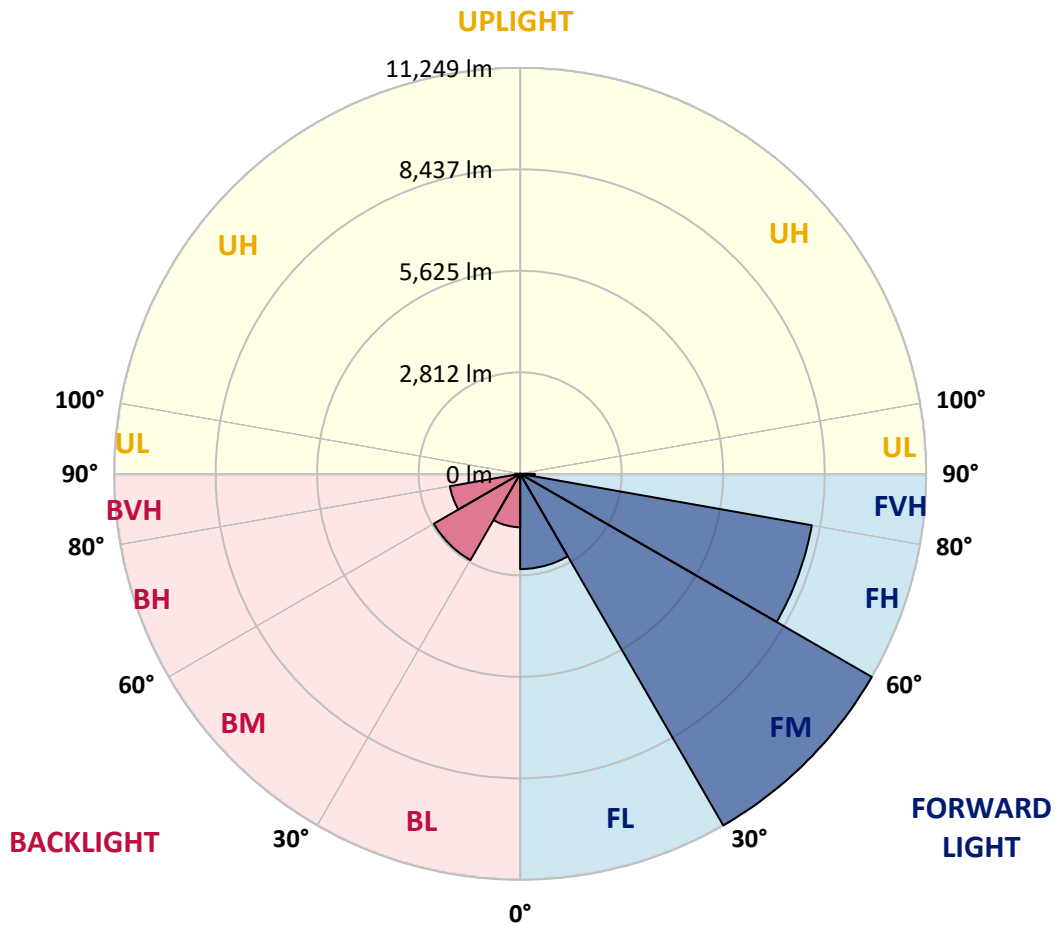
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2638.4	9.1			
FM (30°-60°)	11249.4	39.0			
FH (60°-80°)	8204.9	28.4			G4/12000
FVH (80°-90°)	403.3	1.4			G3/500
BL (0°-30°)	1478.4	5.1	B3/2500		
BM (30°-60°)	2760.3	9.6	B3/5000		
BH (60°-80°)	1976.3	6.9	B3/2500		G3/2500
BVH (80°-90°)	132.1	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-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	5790.0	5790.0	5790.0	5790.0	5790.0	5790.0	5790.0	5790.0	5790.0	5790.0
2.5°	5793.0	5765.5	5782.3	5776.2	5783.9	5793.0	5796.1	5800.6	5815.9	5814.4
5°	5780.8	5753.3	5776.2	5768.6	5788.4	5809.8	5828.1	5844.9	5869.3	5880.0
7.5°	5754.9	5736.6	5759.4	5782.3	5818.9	5851.0	5876.9	5915.1	5950.2	5956.3
10°	5603.8	5590.1	5643.5	5703.0	5803.7	5890.7	5947.1	5991.3	6029.5	6035.6
12.5°	5446.7	5429.9	5489.4	5570.3	5733.5	5890.7	6009.7	6067.6	6101.2	6121.0
15°	5420.7	5407.0	5440.6	5510.8	5646.5	5849.5	6052.4	6159.2	6188.2	6211.0
17.5°	5545.8	5519.9	5533.6	5558.1	5637.4	5811.3	6085.9	6262.9	6307.2	6331.6
20°	5835.7	5799.1	5777.8	5728.9	5715.2	5817.4	6082.9	6388.0	6446.0	6476.5
22.5°	6221.7	6197.3	6151.5	6028.0	5893.7	5892.2	6140.9	6548.2	6656.5	6685.5
25°	6688.6	6652.0	6594.0	6426.2	6168.3	6040.2	6238.5	6752.7	6934.2	6941.8
27.5°	7225.6	7170.7	7091.4	6870.1	6522.3	6272.1	6388.0	6987.6	7253.1	7250.0
30°	7791.7	7736.7	7652.8	7384.3	6946.4	6584.8	6595.5	7240.9	7631.5	7614.7
32.5°	8205.1	8163.9	8147.1	7939.6	7434.6	6954.1	6833.5	7521.6	8098.3	8083.1
35°	8522.5	8469.1	8488.9	8383.6	7967.1	7367.5	7124.9	7855.7	8665.9	8664.3
37.5°	8836.7	8789.4	8806.2	8736.0	8459.9	7892.3	7480.4	8264.6	9369.2	9402.8
40°	9123.6	9073.2	9140.4	9074.7	8842.8	8450.7	7884.7	8726.9	10183.9	10248.0
42.5°	9296.0	9256.3	9367.7	9369.2	9175.4	8922.2	8328.7	9236.5	11126.8	11270.2
45°	9355.5	9341.7	9509.6	9544.7	9469.9	9195.3	8728.4	9791.8	12142.9	12399.2
47.5°	9291.4	9265.5	9497.4	9627.0	9686.5	9323.4	9059.5	10392.9	13180.4	13555.7
50°	8968.0	8917.6	9262.4	9535.5	9747.6	9407.3	9393.6	11087.1	14359.7	14770.1
52.5°	8386.7	8348.5	8740.6	9215.1	9613.3	9448.5	9768.9	11845.4	15479.6	16010.5
55°	7643.7	7593.3	8025.1	8644.5	9279.2	9434.8	10144.3	12693.7	16800.8	17339.4
57.5°	6465.8	6365.1	6911.3	7643.7	8734.5	9418.0	10534.8	13537.4	18143.4	18788.8
60°	4747.9	4598.4	5268.2	6136.3	7669.6	9254.8	11018.5	14483.3	19754.5	20335.8
62.5°	2764.5	2677.6	3115.4	3925.6	5780.8	8293.6	11290.0	15583.3	21338.2	21948.4
65°	2146.6	2122.2	2160.4	2222.9	3217.7	6209.5	10452.4	16655.9	23352.1	23779.3
67.5°	1963.6	1945.2	1962.0	1844.5	1632.5	3458.7	8269.2	16927.4	25509.4	25768.7
70°	1745.4	1724.0	1778.9	1678.2	1284.6	1573.0	5342.9	15941.8	27225.8	27712.5
72.5°	1421.9	1397.5	1525.7	1479.9	1081.7	1010.0	2683.7	13599.9	27045.7	28055.7
75°	1092.4	1078.7	1231.2	1269.4	881.8	794.9	1287.7	10109.2	23800.6	24818.2
77.5°	848.3	837.6	915.4	1054.2	711.0	616.4	791.8	6412.4	17935.9	18114.4
80°	636.2	605.7	677.4	816.2	553.8	450.1	537.0	3739.4	11337.3	10277.0
82.5°	398.2	382.9	442.4	544.7	390.6	309.7	349.4	2065.8	4543.5	2676.0
85°	227.3	221.2	241.1	311.2	212.1	178.5	199.9	912.4	830.0	570.6
87.5°	91.5	88.5	109.8	138.8	77.8	65.6	70.2	219.7	183.1	169.4
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°
5790.0	0°	5790.0	5790.0	5790.0	5790.0	5790.0	5790.0	5790.0	5790.0	5790.0	5790.0
5812.8	2.5°	5806.7	5806.7	5785.4	5751.8	5713.7	5689.3	5649.6	5638.9	5597.7	5585.5
5864.7	5°	5876.9	5864.7	5799.1	5704.5	5574.8	5455.8	5324.6	5242.2	5126.3	5085.1
5966.9	7.5°	5965.4	5931.8	5818.9	5611.5	5339.9	5072.9	4795.2	4584.7	4383.3	4311.6
6050.8	10°	6046.3	5999.0	5806.7	5443.6	4973.7	4511.4	4069.0	3759.3	3524.3	3428.2
6143.9	12.5°	6127.1	6040.2	5725.9	5164.4	4453.5	3826.4	3355.0	3113.9	2969.0	2853.0
6220.2	15°	6203.4	6081.4	5600.8	4790.6	3882.9	3246.6	2898.8	2706.6	2590.6	2514.3
6331.6	17.5°	6291.9	6116.5	5413.1	4316.2	3339.7	2845.4	2561.6	2445.7	2422.8	2413.6
6484.1	20°	6415.5	6148.5	5166.0	3785.2	2940.0	2525.0	2378.5	2367.9	2366.3	2361.8
6667.2	22.5°	6548.2	6186.6	4839.5	3303.1	2599.8	2325.1	2299.2	2277.8	2264.1	2262.6
6888.4	25°	6705.4	6198.8	4430.6	2907.9	2309.9	2230.5	2200.0	2168.0	2158.8	2158.8
7140.2	27.5°	6857.9	6157.6	3954.6	2564.7	2146.6	2143.6	2103.9	2093.2	2091.7	2096.3
7427.0	30°	7010.5	6079.8	3481.6	2247.3	2052.0	2052.0	2038.3	2045.9	2052.0	2067.3
7820.6	32.5°	7216.5	5997.5	3086.5	2012.4	1969.7	1954.4	1968.1	1983.4	1989.5	2009.3
8337.8	35°	7518.6	5939.5	2772.2	1884.2	1884.2	1864.4	1872.0	1869.0	1855.2	1846.1
8963.4	37.5°	7918.3	5936.4	2512.8	1824.7	1812.5	1809.5	1811.0	1791.1	1737.8	1673.7
9720.1	40°	8398.9	6018.8	2312.9	1783.5	1774.4	1792.7	1783.5	1730.1	1583.7	1472.3
10650.8	42.5°	9044.2	6253.8	2184.8	1733.2	1760.6	1783.5	1746.9	1562.3	1463.1	1388.4
11711.1	45°	9804.0	6635.2	2119.2	1679.8	1734.7	1762.2	1585.2	1504.3	1425.0	1335.0
12867.6	47.5°	10664.5	7115.8	2103.9	1629.4	1676.7	1693.5	1516.5	1479.9	1389.9	1292.3
14030.2	50°	11601.3	7684.9	2145.1	1569.9	1592.8	1534.8	1493.6	1460.1	1367.0	1270.9
15221.7	52.5°	12570.1	8311.9	2227.5	1489.1	1508.9	1444.8	1484.5	1455.5	1353.3	1223.6
16452.9	55°	13522.1	8943.5	2306.8	1394.5	1423.5	1364.0	1458.6	1437.2	1290.7	1144.3
17766.6	57.5°	14489.4	9572.1	2384.6	1310.6	1341.1	1286.1	1417.4	1388.4	1220.5	1071.0
19200.7	60°	15494.8	10182.4	2421.3	1229.7	1251.1	1214.4	1354.8	1304.5	1141.2	996.3
20610.4	62.5°	16436.2	10690.4	2361.8	1148.8	1162.6	1147.3	1272.4	1205.3	1061.9	912.4
22079.7	65°	17380.6	10992.5	2178.7	1069.5	1072.6	1064.9	1156.5	1098.5	968.8	839.1
23365.8	67.5°	18236.5	11161.9	1887.3	984.1	976.4	973.4	1048.1	982.5	878.8	765.9
24343.8	70°	18418.0	10731.6	1441.8	883.4	883.4	875.7	929.1	862.0	779.6	688.1
23643.5	72.5°	16822.2	9027.5	1023.7	768.9	781.1	765.9	810.1	753.7	678.9	617.9
20377.0	75°	13564.8	6619.9	744.5	651.5	672.8	646.9	688.1	648.4	584.3	582.8
14042.4	77.5°	9320.4	4093.4	540.1	537.0	552.3	518.7	566.0	544.7	486.7	460.8
6111.9	80°	3977.4	1632.5	393.6	415.0	415.0	384.5	439.4	445.5	395.2	382.9
1179.4	82.5°	791.8	463.8	276.1	285.3	268.5	259.4	311.2	344.8	476.0	529.4
355.5	85°	238.0	170.9	166.3	155.6	137.3	138.8	183.1	346.3	427.2	244.1
117.5	87.5°	65.6	42.7	44.2	35.1	29.0	38.1	62.6	262.4	143.4	61.0
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>
5790.0
5605.4
5115.6
4320.7
3449.6
2891.2
2528.1
2419.7
2377.0
2279.4
2168.0
2108.5
2078.0
2026.1
1867.4
1675.2
1469.2
1385.3
1328.9
1284.6
1260.2
1214.4
1136.6
1068.0
991.7
910.8
830.0
756.7
685.0
599.6
524.8
431.8
382.9
530.9
210.5
51.9
0.0

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