

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: P945059

Luminaire Tested: **GALN-SB1A-840-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945059  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1A-840-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

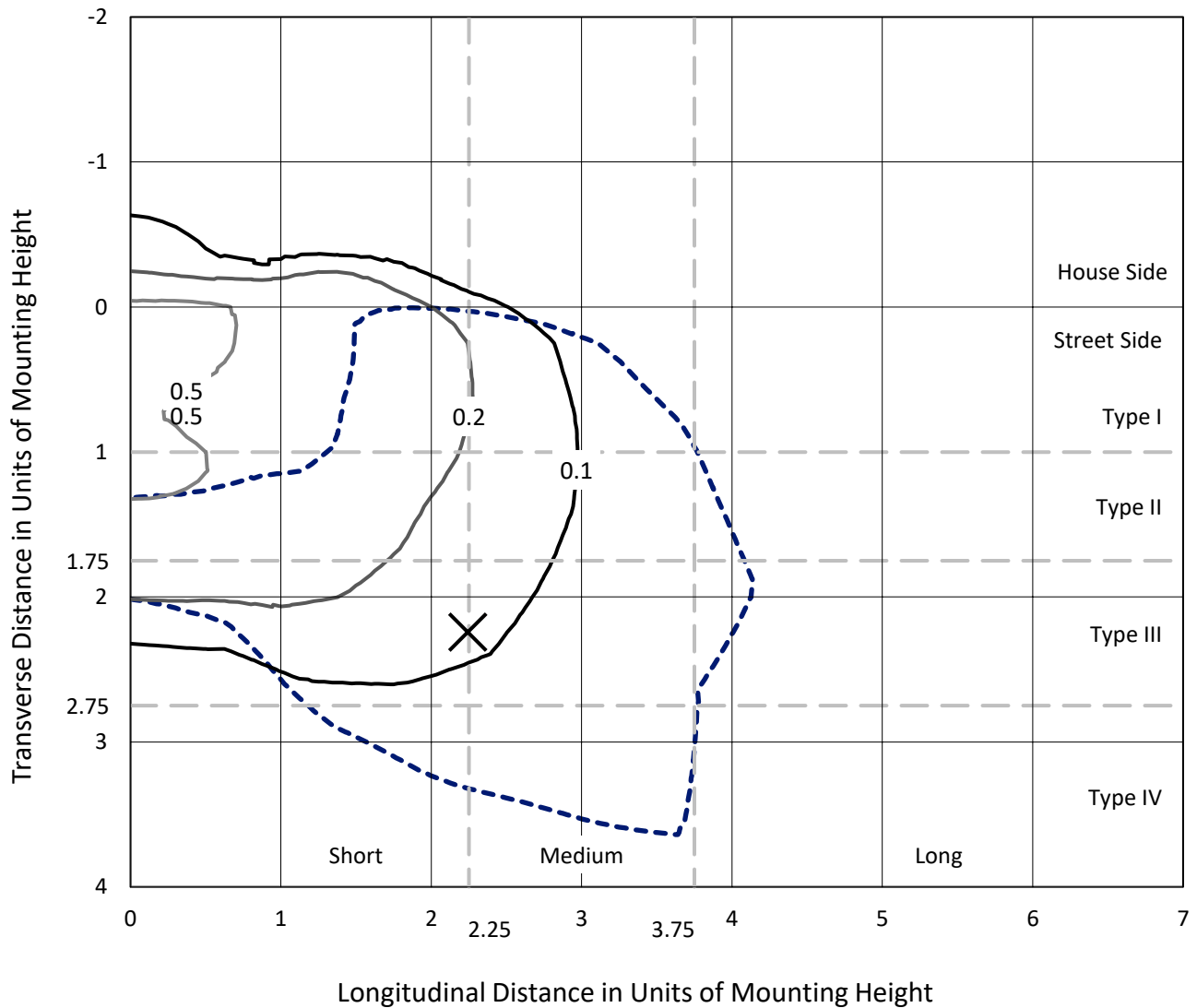
Lumens per Lamp: N/A  
Luminaire Lumens: 3306 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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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 CATALOG NUMBER: GALN-SB1A-840-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

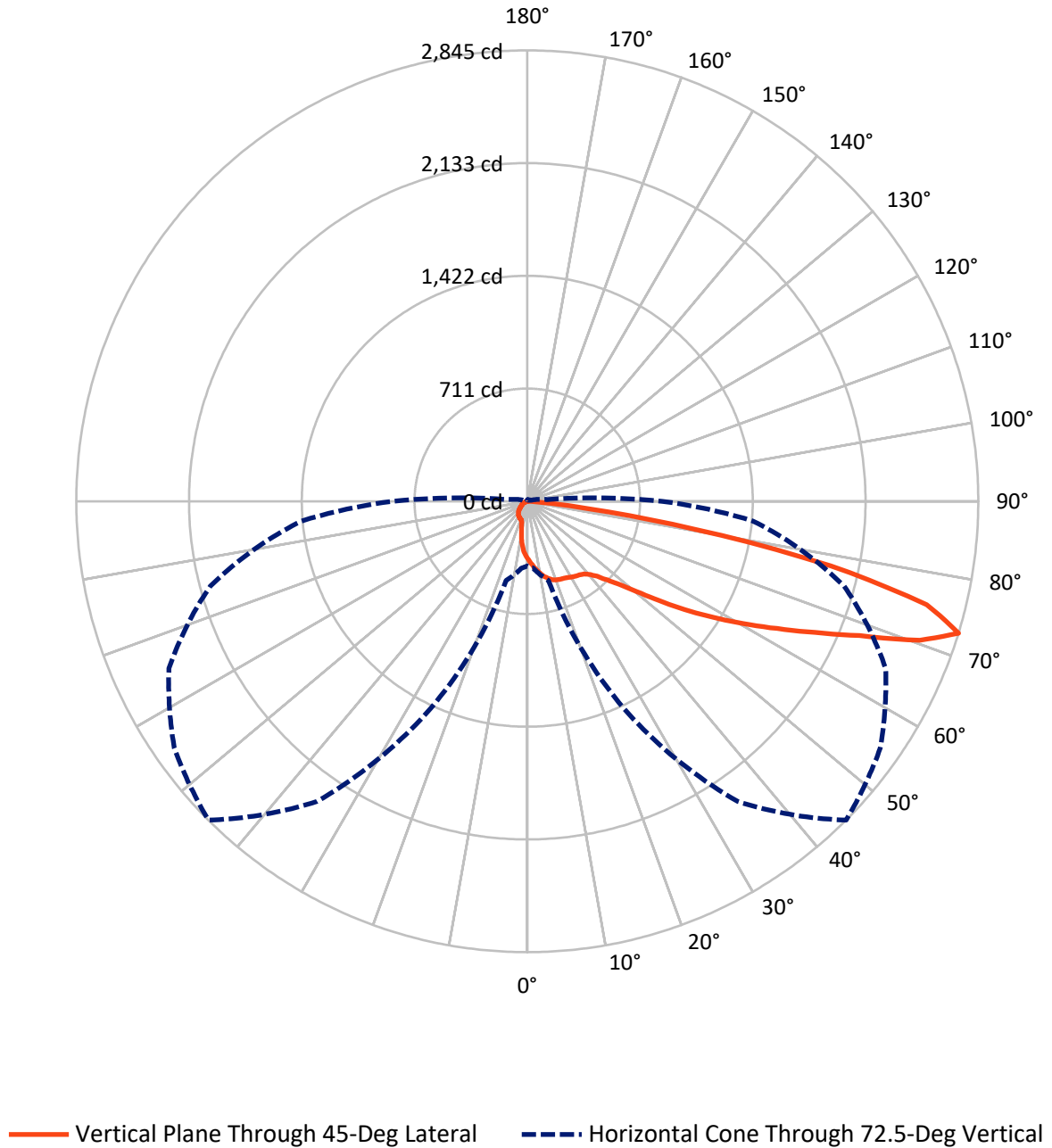
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	347.4	0.0	347.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	2958.6	0.0	2958.6
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	3306.0	0.0	3306.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.1	1.0
10°-20°	99.7	3.0
20°-30°	163.8	5.0
30°-40°	232.3	7.0
40°-50°	383.9	11.6
50°-60°	689.7	20.9
60°-70°	957.6	29.0
70°-80°	694.6	21.0
80°-90°	50.2	1.5
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°	3306.0	100.0
0°-180°	3306.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P945059

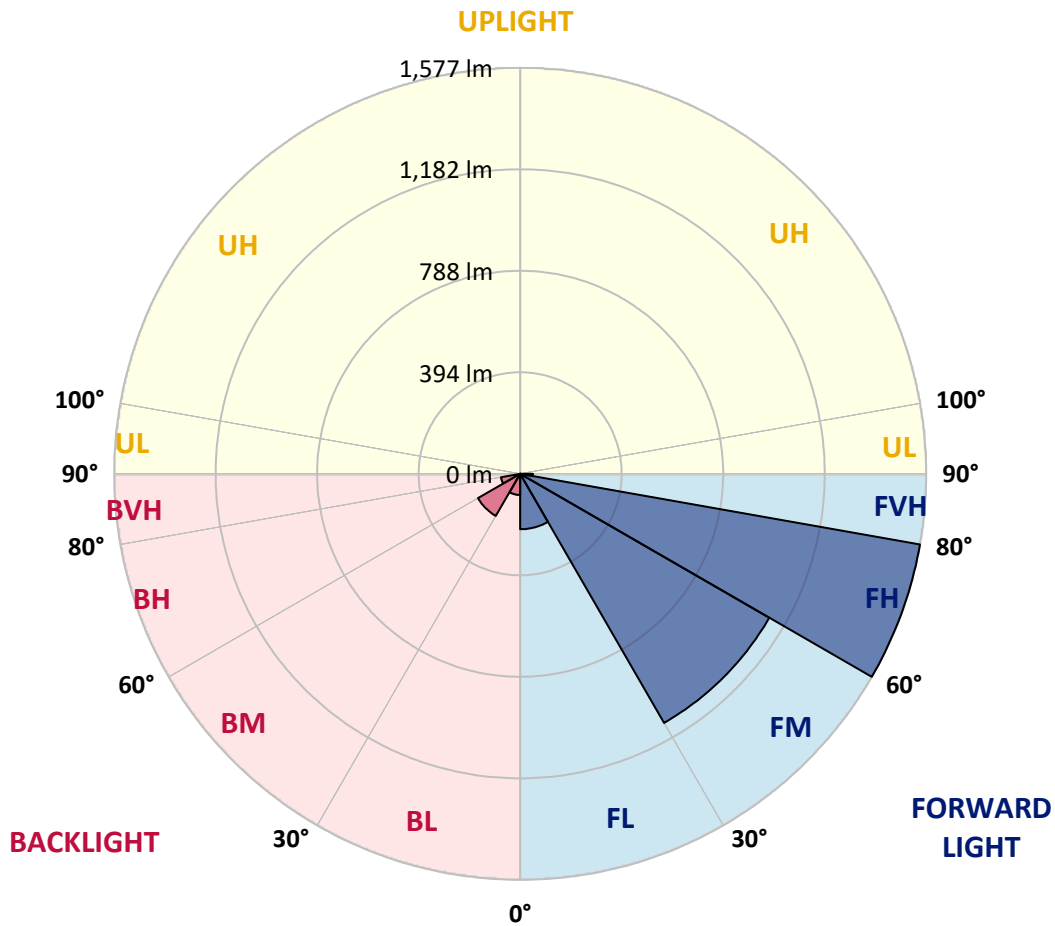
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	215.4	6.5			
FM (30°-60°)	1116.9	33.8			
FH (60°-80°)	1576.5	47.7			G1/1800
FVH (80°-90°)	49.8	1.5			G1/100
BL (0°-30°)	82.3	2.5	B0/110		
BM (30°-60°)	188.9	5.7	B0/220		
BH (60°-80°)	75.7	2.3	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type IV Short



REPORT NUMBER: P945059

CATALOG NUMBER: GALN-SB1A-840-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	362.2	362.2	362.2	362.2	362.2	362.2	362.2	362.2	362.2	362.2
2.5°	395.6	396.3	395.8	393.1	388.6	386.1	384.7	380.2	377.3	372.1
5°	431.9	434.6	433.0	427.6	419.0	413.0	411.1	401.9	393.5	383.8
7.5°	470.5	471.8	468.9	461.9	450.4	440.0	438.5	425.6	412.3	397.4
10°	503.9	505.5	501.0	490.8	477.7	464.9	462.6	448.4	432.6	414.3
12.5°	531.9	533.5	527.6	515.4	501.0	487.6	485.4	470.5	453.1	432.8
15°	553.1	556.0	548.1	535.0	519.5	506.1	505.0	490.4	473.4	450.9
17.5°	565.5	568.4	561.0	545.2	531.9	520.6	519.2	507.1	491.3	469.6
20°	567.5	570.2	562.3	548.6	537.5	528.5	527.8	519.0	507.5	486.7
22.5°	561.4	564.8	557.6	546.5	538.9	534.1	533.2	528.3	521.7	504.1
25°	555.1	557.8	552.4	542.7	538.6	538.2	538.9	538.0	536.6	521.7
27.5°	554.7	557.6	551.5	542.3	540.0	544.7	545.4	549.7	550.8	537.7
30°	558.5	560.5	554.7	545.0	543.8	554.7	554.9	562.6	564.4	551.3
32.5°	566.9	569.1	563.2	549.0	547.4	562.6	563.2	573.4	576.3	565.7
35°	586.5	589.2	582.4	560.3	554.7	570.0	572.0	584.0	589.9	581.1
37.5°	635.4	627.6	618.3	583.1	571.1	581.7	585.1	599.1	609.5	599.3
40°	757.1	732.3	703.4	621.9	600.0	606.8	609.5	623.5	637.7	627.8
42.5°	939.6	910.3	863.8	711.3	643.6	647.0	649.0	661.2	681.3	673.4
45°	1102.3	1091.7	1044.3	863.8	725.0	708.3	710.8	717.1	746.7	743.8
47.5°	1227.3	1221.3	1184.7	1038.9	862.7	783.5	790.5	793.4	836.1	846.4
50°	1323.5	1321.2	1288.5	1194.6	1042.5	894.3	896.8	890.4	954.3	980.0
52.5°	1414.2	1421.9	1397.7	1339.3	1234.6	1039.4	1038.9	1009.1	1095.3	1134.2
55°	1496.1	1498.8	1501.3	1486.9	1427.7	1204.6	1200.3	1151.5	1258.9	1299.1
57.5°	1573.1	1574.2	1596.3	1625.9	1628.8	1381.9	1374.0	1315.6	1437.7	1466.3
60°	1624.7	1629.9	1676.6	1758.8	1794.6	1564.9	1560.6	1501.1	1619.5	1632.9
62.5°	1550.3	1581.9	1699.6	1862.6	1951.3	1767.8	1765.8	1709.8	1810.9	1800.1
65°	1254.9	1308.4	1515.5	1932.8	2104.9	1994.4	1997.3	1937.7	2007.4	1972.2
67.5°	877.8	934.2	1179.3	1938.4	2276.7	2260.4	2277.3	2183.9	2216.2	2137.2
70°	607.0	636.1	795.7	1817.0	2410.5	2626.9	2626.4	2486.3	2423.8	2212.3
72.5°	408.2	423.3	516.8	1441.5	2312.1	2844.6	2831.5	2717.4	2493.7	2069.0
75°	172.2	183.2	239.2	810.1	1829.2	2602.5	2567.1	2401.4	2215.7	1629.2
77.5°	54.6	59.3	94.3	290.0	1007.6	1956.2	1918.8	1499.7	1485.0	817.3
80°	26.0	30.2	53.0	116.4	396.5	1064.0	1058.8	680.4	638.8	220.7
82.5°	11.3	13.3	29.3	62.3	177.4	379.6	387.2	231.5	191.6	83.7
85°	3.6	4.7	13.5	28.7	74.9	94.3	93.2	55.1	77.2	45.6
87.5°	0.0	0.0	4.5	6.5	7.7	5.4	6.1	4.7	21.4	12.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945059

CATALOG NUMBER: GALN-SB1A-840-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
362.2	0°	362.2	362.2	362.2	362.2	362.2	362.2	362.2	362.2	362.2	362.2
366.7	2.5°	364.0	360.4	354.1	348.2	343.0	337.8	334.6	330.1	329.7	329.7
372.6	5°	366.5	360.6	349.3	337.4	323.6	310.5	297.4	284.8	280.7	277.8
382.0	7.5°	373.7	364.4	346.6	323.8	297.6	269.0	248.9	227.2	218.9	214.4
394.7	10°	384.1	371.4	344.4	304.4	262.0	222.9	194.3	170.8	161.8	158.0
408.4	12.5°	395.6	380.0	340.3	280.3	222.9	176.2	148.3	137.4	136.1	136.1
424.9	15°	409.3	390.4	333.3	251.8	182.1	139.5	129.5	130.0	131.3	132.2
440.9	17.5°	423.6	401.4	322.2	220.0	146.0	125.5	125.7	126.4	127.5	128.4
458.3	20°	438.9	412.5	307.6	186.2	125.2	121.4	122.1	122.8	123.7	124.1
474.6	22.5°	455.4	422.9	290.2	153.0	118.2	118.0	118.2	118.9	120.0	120.0
493.5	25°	473.0	434.4	270.3	128.9	114.6	114.6	115.1	115.5	116.4	116.4
511.8	27.5°	491.0	445.0	249.4	116.2	111.5	111.2	111.2	111.9	112.4	112.6
529.8	30°	510.9	457.4	228.4	113.5	109.0	107.9	107.2	107.6	108.1	108.3
548.8	32.5°	531.2	469.4	209.6	114.6	106.5	104.5	102.2	101.8	101.8	102.7
568.4	35°	553.8	482.5	195.2	118.5	105.2	99.5	95.9	93.9	94.1	95.5
591.9	37.5°	580.8	498.3	184.6	121.9	104.3	93.9	88.0	85.5	83.9	85.5
624.2	40°	616.3	521.5	176.9	124.6	103.1	87.3	79.4	75.4	72.4	73.3
674.3	42.5°	668.4	558.0	174.0	124.8	100.6	79.7	70.6	65.2	60.9	61.2
749.6	45°	741.5	615.8	189.1	121.9	95.2	71.3	61.4	54.2	51.4	50.8
862.2	47.5°	841.7	700.0	224.1	115.8	87.3	63.2	52.4	46.3	44.2	43.1
1010.0	50°	976.0	808.1	262.9	109.0	79.4	55.5	44.9	41.1	39.7	38.6
1185.4	52.5°	1131.7	917.7	294.7	102.2	71.5	48.7	40.2	37.9	36.8	35.9
1354.6	55°	1274.5	993.3	292.9	95.0	63.9	43.3	36.8	35.4	34.1	33.2
1500.4	57.5°	1363.4	1003.9	241.5	87.1	55.1	39.0	33.6	32.7	31.1	30.0
1626.5	60°	1404.3	943.5	169.2	76.7	46.3	35.0	30.2	29.8	27.8	26.2
1745.9	62.5°	1411.7	831.1	112.8	63.9	38.6	31.1	26.9	26.2	23.5	20.8
1842.9	65°	1381.5	670.4	78.1	49.9	32.9	27.1	23.0	21.7	18.7	16.0
1866.0	67.5°	1285.8	470.7	54.4	35.9	28.0	21.4	18.3	17.8	15.6	13.3
1748.6	70°	1110.5	268.3	36.3	26.9	22.1	14.7	14.4	14.9	12.6	10.8
1428.6	72.5°	851.4	122.8	22.6	19.6	15.1	9.9	11.5	11.7	9.7	8.1
891.3	75°	501.2	52.6	14.2	12.6	7.7	6.5	8.3	8.6	6.5	5.2
325.8	77.5°	170.6	19.9	9.0	7.4	3.8	3.6	5.4	5.4	3.6	2.0
65.4	80°	38.8	7.4	4.5	2.9	1.8	1.6	1.8	1.6	0.9	0.2
20.1	82.5°	11.1	2.9	1.8	1.1	0.7	0.7	0.2	0.0	0.0	0.0
7.0	85°	3.2	1.4	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
2.5	87.5°	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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180°  
362.2  
330.8  
279.1  
215.1  
158.0  
136.1  
132.2  
128.4  
124.3  
120.5  
116.7  
112.8  
108.8  
103.4  
96.1  
85.1  
72.9  
60.3  
49.9  
42.4  
38.4  
35.7  
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