

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: P957218

Luminaire Tested: **GALN-SB9C-850-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957218  
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-SB9C-850-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

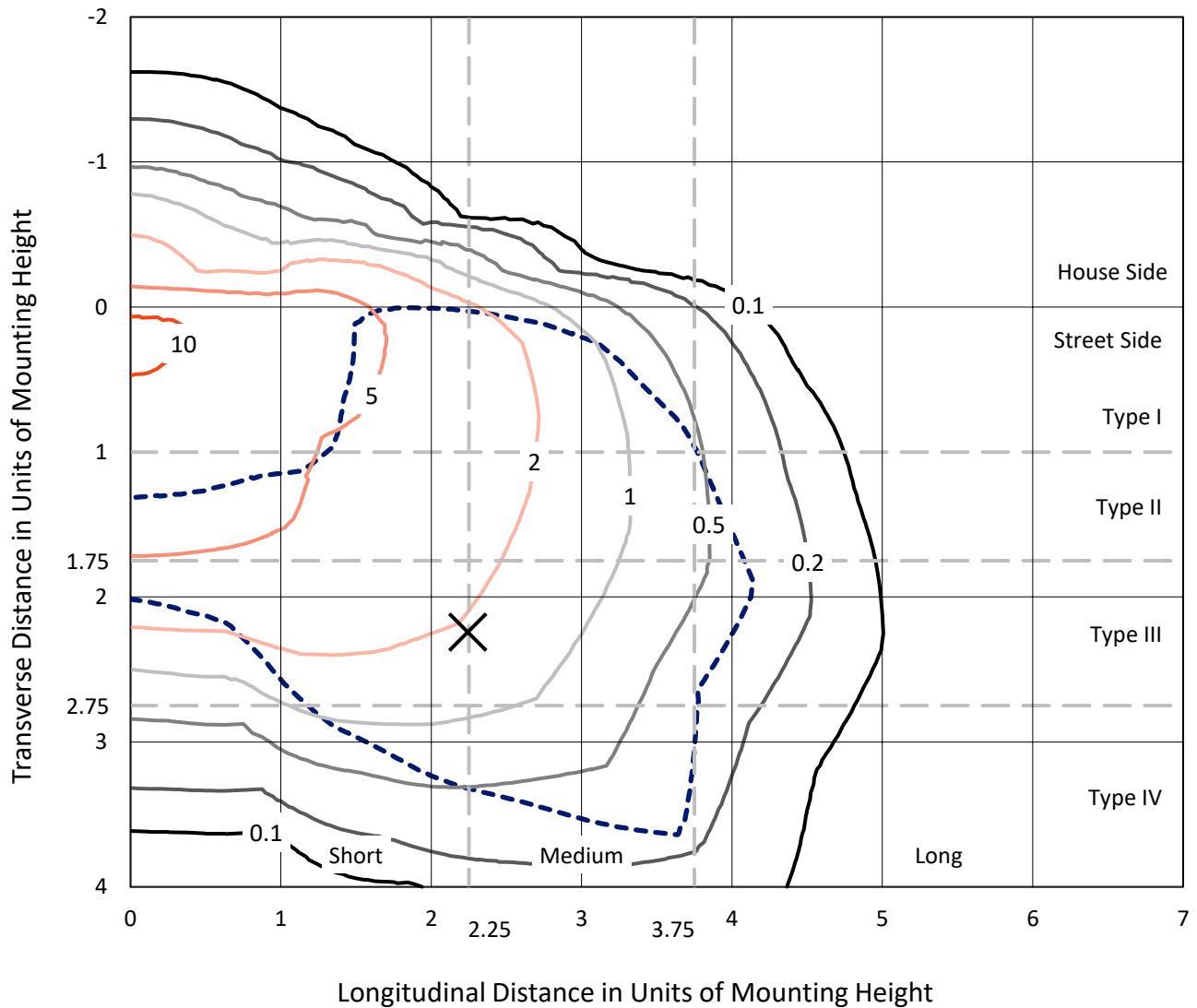
Lumens per Lamp: N/A  
Luminaire Lumens: 50260 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

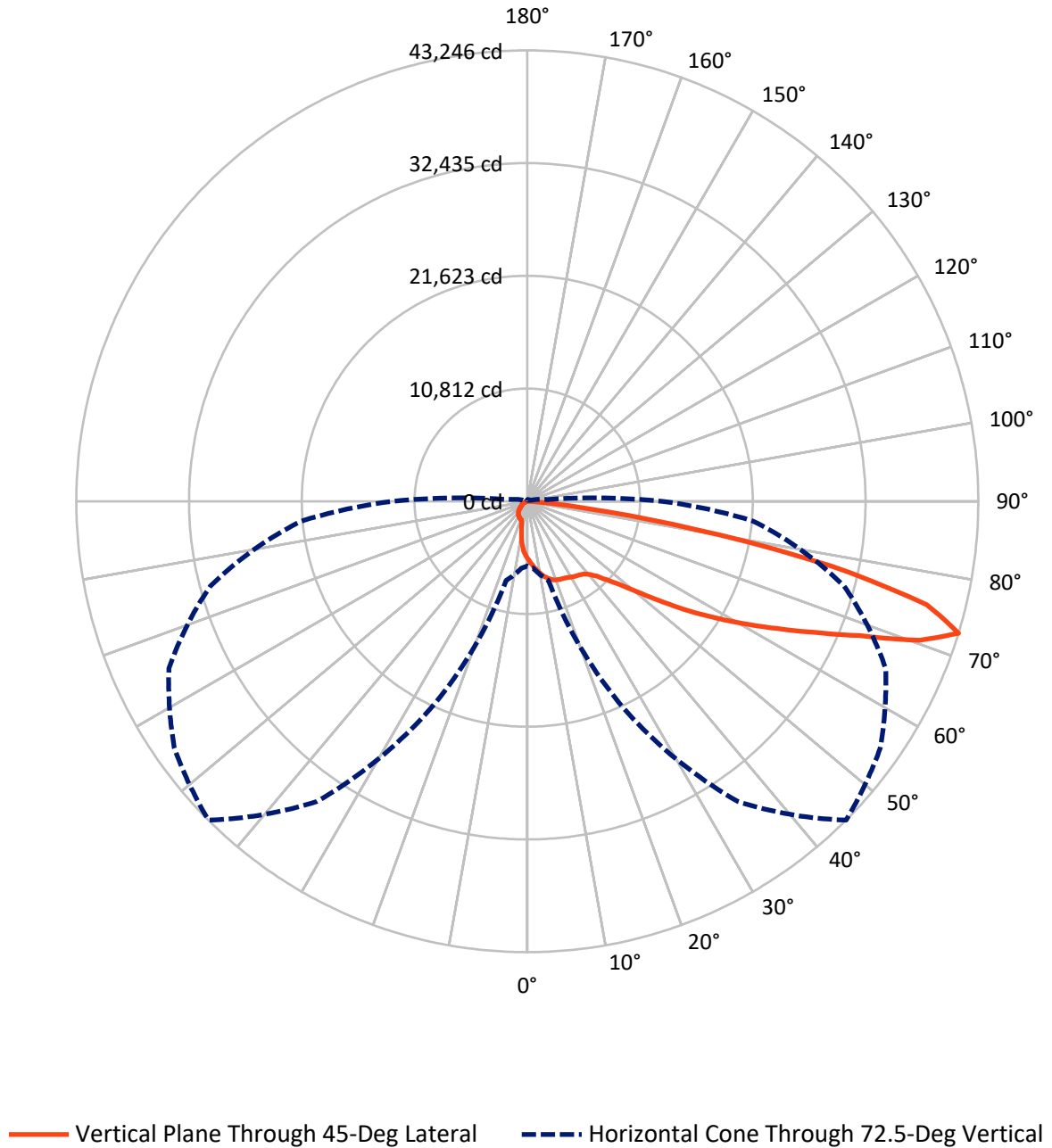
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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	5280.9	0.0	5280.9
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	44979.1	0.0	44979.1
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	50260.0	0.0	50260.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	518.8	1.0
10°-20°	1516.2	3.0
20°-30°	2489.8	5.0
30°-40°	3531.1	7.0
40°-50°	5836.6	11.6
50°-60°	10484.8	20.9
60°-70°	14558.7	29.0
70°-80°	10560.4	21.0
80°-90°	763.5	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°	50260.0	100.0
0°-180°	50260.0	100.0

**Coefficient of Utilization**



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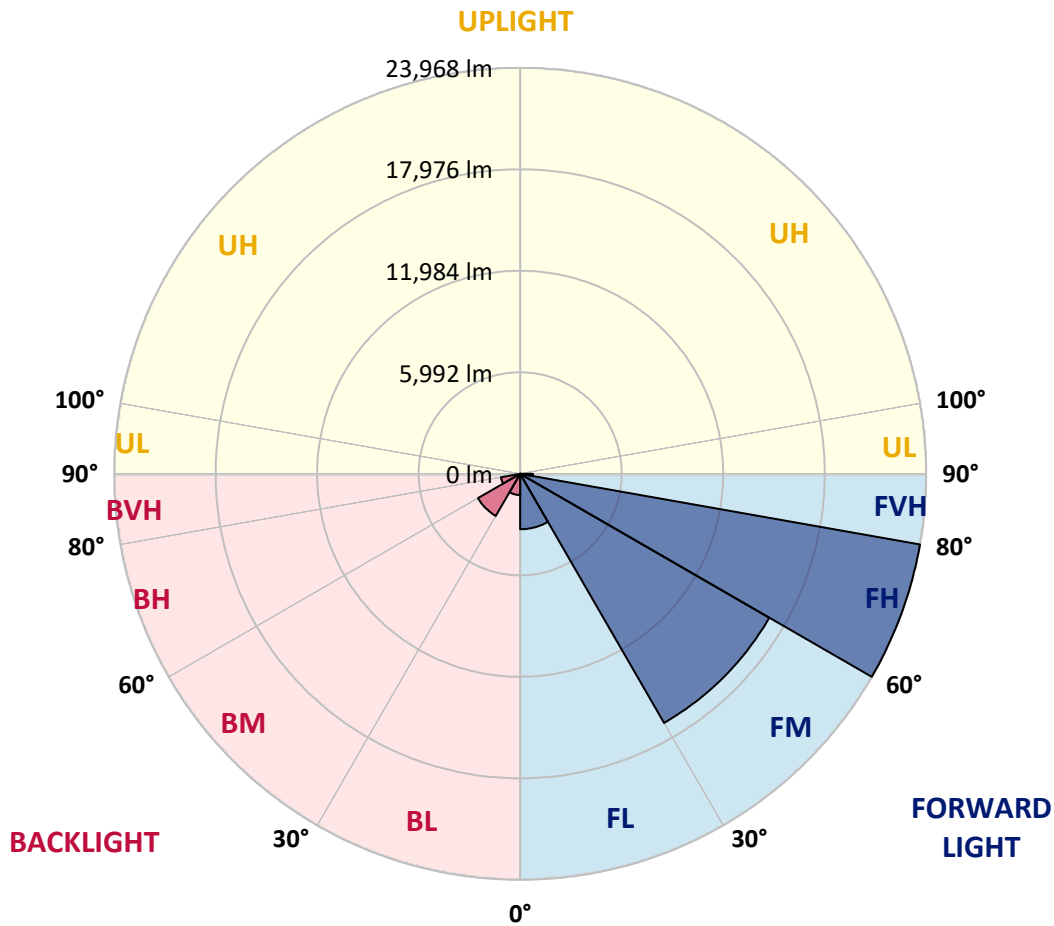
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3273.9	6.5			
FM (30°-60°)	16980.5	33.8			
FH (60°-80°)	23967.6	47.7			G5
FVH (80°-90°)	757.1	1.5			G5
BL (0°-30°)	1250.8	2.5	B3/2500		
BM (30°-60°)	2872.1	5.7	B3/5000		
BH (60°-80°)	1151.6	2.3	B3/2500		G3/2500
BVH (80°-90°)	6.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	5506.1	5506.1	5506.1	5506.1	5506.1	5506.1	5506.1	5506.1	5506.1	5506.1
2.5°	6013.8	6024.1	6017.2	5976.1	5907.5	5869.7	5849.1	5780.5	5735.9	5657.0
5°	6566.1	6607.3	6583.3	6501.0	6370.6	6278.0	6250.5	6109.9	5982.9	5835.4
7.5°	7152.8	7173.4	7128.8	7022.4	6847.4	6689.6	6665.6	6470.1	6267.7	6041.3
10°	7660.5	7684.5	7615.9	7461.5	7262.5	7067.0	7032.7	6816.6	6576.4	6298.6
12.5°	8085.9	8109.9	8020.7	7835.5	7615.9	7413.5	7379.2	7152.8	6888.6	6579.9
15°	8408.4	8453.0	8332.9	8133.9	7897.2	7694.8	7677.7	7454.7	7197.4	6854.3
17.5°	8597.0	8641.6	8528.4	8288.3	8085.9	7914.4	7893.8	7708.5	7468.4	7139.0
20°	8627.9	8669.1	8549.0	8339.8	8171.7	8034.4	8024.1	7890.3	7715.4	7399.8
22.5°	8535.3	8586.8	8477.0	8308.9	8192.2	8120.2	8106.5	8031.0	7931.5	7663.9
25°	8439.2	8480.4	8398.1	8250.6	8188.8	8181.9	8192.2	8178.5	8157.9	7931.5
27.5°	8432.4	8477.0	8384.4	8243.7	8209.4	8281.4	8291.7	8356.9	8374.1	8175.1
30°	8490.7	8521.6	8432.4	8284.9	8267.7	8432.4	8435.8	8552.4	8579.9	8380.9
32.5°	8617.6	8651.9	8562.7	8346.6	8322.6	8552.4	8562.7	8717.1	8761.7	8600.5
35°	8916.1	8957.3	8854.3	8518.1	8432.4	8665.7	8696.5	8878.4	8967.6	8833.8
37.5°	9660.5	9540.5	9399.8	8864.6	8682.8	8844.0	8895.5	9108.2	9266.0	9111.6
40°	11509.6	11132.3	10693.1	9454.7	9121.9	9224.8	9266.0	9478.7	9694.8	9543.9
42.5°	14285.0	13839.0	13132.3	10813.2	9784.0	9835.5	9866.4	10051.6	10356.9	10236.9
45°	16758.4	16597.2	15876.8	13132.3	11022.5	10768.6	10806.3	10902.4	11351.8	11307.2
47.5°	18659.0	18566.3	18010.6	15794.4	13115.1	11911.0	12017.3	12061.9	12710.3	12868.1
50°	20120.4	20086.1	19588.6	18161.5	15849.3	13595.4	13633.1	13537.1	14507.9	14899.0
52.5°	21499.5	21616.1	21249.0	20360.5	18768.7	15801.3	15794.4	15341.6	16652.1	17242.1
55°	22744.8	22785.9	22823.7	22604.1	21705.3	18312.5	18247.3	17506.3	19139.2	19749.9
57.5°	23914.6	23931.8	24268.0	24717.4	24762.0	21008.9	20888.8	20000.3	21856.3	22291.9
60°	24700.2	24779.1	25489.3	26738.0	27283.4	23791.1	23725.9	22820.3	24621.3	24823.7
62.5°	23568.1	24048.4	25839.2	28316.1	29664.3	26875.2	26844.3	25993.5	27530.4	27365.8
65°	19077.5	19890.5	23039.8	29383.0	32000.5	30319.5	30364.1	29458.4	30518.5	29983.3
67.5°	13345.0	14202.6	17928.2	29468.7	34611.2	34364.2	34621.5	33201.2	33691.8	32491.1
70°	9228.3	9670.8	12096.2	27623.1	36645.5	39935.4	39928.6	37798.2	36847.9	33633.5
72.5°	6205.9	6435.8	7856.0	21914.6	35149.8	43246.0	43047.0	41311.1	37911.4	31455.0
75°	2617.5	2785.6	3636.4	12315.8	27808.3	39564.9	39026.3	36508.3	33684.9	24768.8
77.5°	830.2	902.2	1434.0	4408.3	15317.6	29739.7	29170.3	22799.7	22576.7	12425.6
80°	394.5	459.7	806.2	1770.2	6027.5	16175.2	16096.3	10343.2	9712.0	3355.1
82.5°	171.5	202.4	446.0	946.8	2696.4	5770.2	5886.9	3519.8	2912.6	1272.7
85°	54.9	72.0	205.8	435.7	1139.0	1434.0	1416.8	837.1	1173.3	693.0
87.5°	0.0	0.0	68.6	99.5	116.6	82.3	92.6	72.0	325.9	192.1
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°
5506.1	0°	5506.1	5506.1	5506.1	5506.1	5506.1	5506.1	5506.1	5506.1	5506.1	5506.1
5574.7	2.5°	5533.5	5478.6	5382.6	5293.4	5214.5	5135.6	5087.6	5018.9	5012.1	5012.1
5663.9	5°	5571.3	5482.1	5310.5	5128.7	4919.5	4720.5	4521.5	4329.4	4267.6	4223.1
5808.0	7.5°	5681.0	5540.4	5269.4	4922.9	4524.9	4089.3	3783.9	3454.6	3327.7	3259.1
6000.1	10°	5838.9	5646.7	5235.1	4627.9	3982.9	3389.4	2953.7	2597.0	2459.7	2401.4
6209.4	12.5°	6013.8	5777.1	5173.3	4260.8	3389.4	2679.3	2253.9	2089.2	2068.6	2068.6
6459.8	15°	6223.1	5934.9	5067.0	3828.5	2768.5	2120.1	1969.2	1976.0	1996.6	2010.3
6703.4	17.5°	6439.2	6103.0	4898.9	3344.8	2219.6	1907.4	1910.8	1921.1	1938.3	1952.0
6967.5	20°	6672.5	6271.1	4675.9	2830.2	1904.0	1845.7	1855.9	1866.2	1880.0	1886.8
7214.5	22.5°	6922.9	6428.9	4411.7	2325.9	1797.6	1794.2	1797.6	1807.9	1825.1	1825.1
7502.7	25°	7190.5	6603.9	4109.8	1958.9	1742.7	1742.7	1749.6	1756.5	1770.2	1770.2
7780.6	27.5°	7465.0	6765.1	3790.8	1766.8	1694.7	1691.3	1691.3	1701.6	1708.4	1711.9
8055.0	30°	7766.8	6953.8	3471.8	1725.6	1657.0	1639.8	1629.5	1636.4	1643.3	1646.7
8343.2	32.5°	8075.6	7135.6	3187.0	1742.7	1619.2	1588.4	1554.1	1547.2	1547.2	1560.9
8641.6	35°	8418.7	7334.6	2967.5	1801.1	1598.7	1512.9	1458.0	1427.1	1430.6	1451.1
8998.4	37.5°	8830.3	7574.7	2806.2	1852.5	1584.9	1427.1	1337.9	1300.2	1276.2	1300.2
9489.0	40°	9368.9	7928.1	2689.6	1893.7	1567.8	1327.6	1207.6	1145.8	1101.2	1114.9
10250.6	42.5°	10161.4	8483.8	2645.0	1897.1	1530.0	1211.0	1073.8	991.4	926.3	929.7
11396.4	45°	11272.9	9362.1	2874.8	1852.5	1447.7	1084.1	933.1	823.3	782.2	771.9
13108.3	47.5°	12796.1	10641.7	3406.6	1759.9	1327.6	960.6	795.9	703.3	672.4	655.2
15355.3	50°	14837.3	12284.9	3996.6	1657.0	1207.6	843.9	682.7	624.4	603.8	586.6
18020.9	52.5°	17204.4	13952.2	4480.3	1554.1	1087.5	741.0	610.6	576.3	559.2	545.5
20593.8	55°	19375.9	15101.4	4452.9	1444.3	970.9	658.7	559.2	538.6	518.0	504.3
22810.0	57.5°	20727.6	15262.7	3670.7	1324.2	837.1	593.5	511.2	497.4	473.4	456.3
24727.7	60°	21348.5	14343.3	2572.9	1166.4	703.3	531.7	459.7	452.8	422.0	397.9
26542.4	62.5°	21461.7	12634.8	1715.3	970.9	586.6	473.4	408.2	397.9	356.8	315.6
28017.6	65°	21002.0	10192.3	1187.0	758.2	500.9	411.7	349.9	329.3	284.7	243.6
28367.5	67.5°	19547.5	7156.2	826.8	545.5	425.4	325.9	277.9	271.0	236.7	202.4
26583.6	70°	16881.9	4079.0	552.3	408.2	336.2	223.0	219.6	226.4	192.1	164.7
21719.0	72.5°	12943.6	1866.2	343.1	298.5	229.8	150.9	175.0	178.4	147.5	123.5
13550.8	75°	7619.3	799.3	216.1	192.1	116.6	99.5	126.9	130.4	99.5	78.9
4953.8	77.5°	2593.5	301.9	137.2	113.2	58.3	54.9	82.3	82.3	54.9	30.9
994.9	80°	590.1	113.2	68.6	44.6	27.4	24.0	27.4	24.0	13.7	3.4
305.3	82.5°	168.1	44.6	27.4	17.2	10.3	10.3	3.4	0.0	0.0	0.0
106.3	85°	48.0	20.6	6.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0
37.7	87.5°	20.6	3.4	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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<u>180°</u>
5506.1
5029.2
4243.6
3269.3
2401.4
2068.6
2010.3
1952.0
1890.3
1831.9
1773.6
1715.3
1653.5
1571.2
1461.4
1293.3
1108.1
916.0
758.2
645.0
583.2
542.0
497.4
452.8
391.1
295.0
229.8
192.1
150.9
<i>109.8</i>
68.6
24.0
0.0
0.0
0.0
0.0
0.0

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