

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: P952543

Luminaire Tested: **GALN-SB6B-840-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952543
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-SB6B-840-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 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: 32465 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

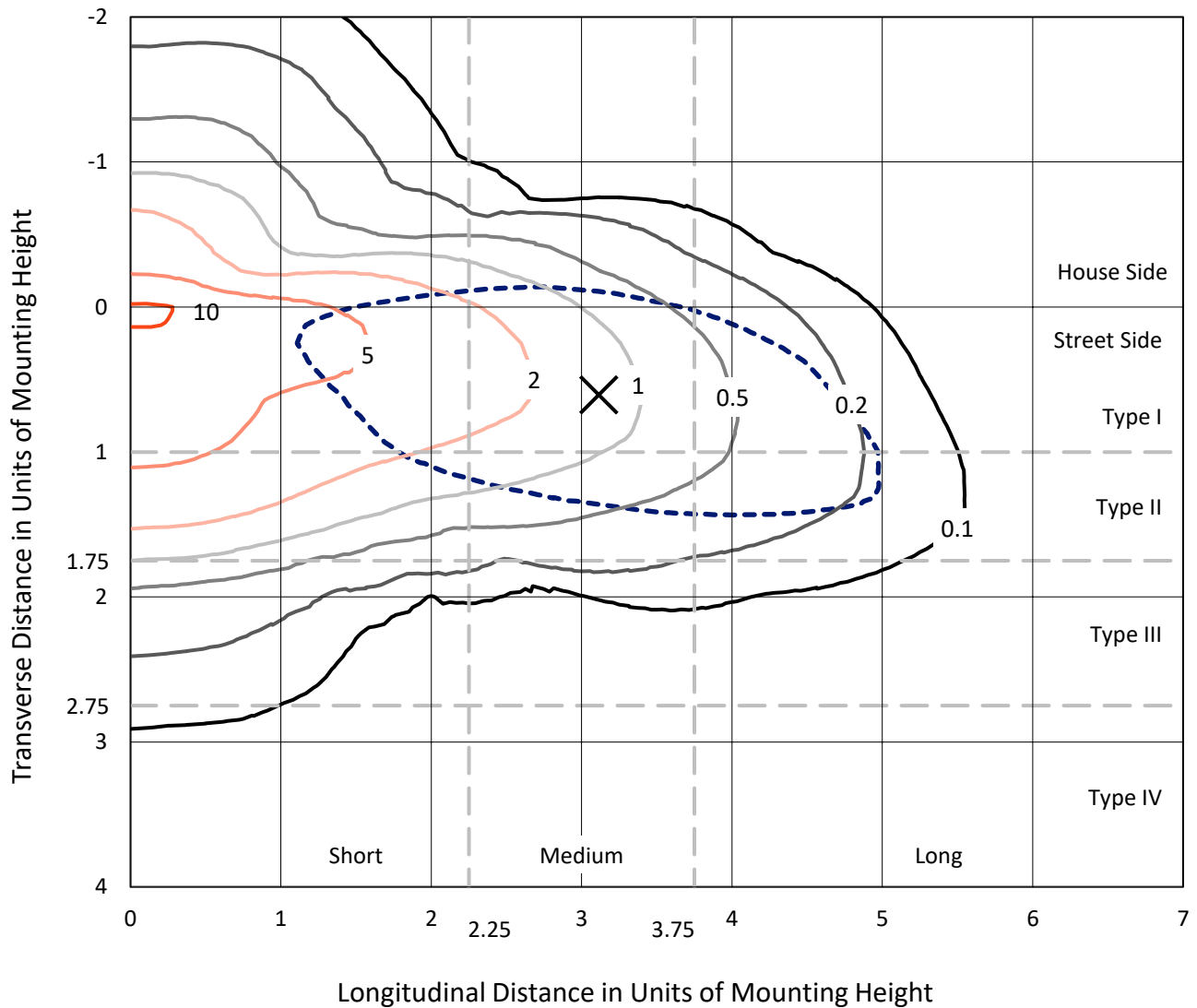
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

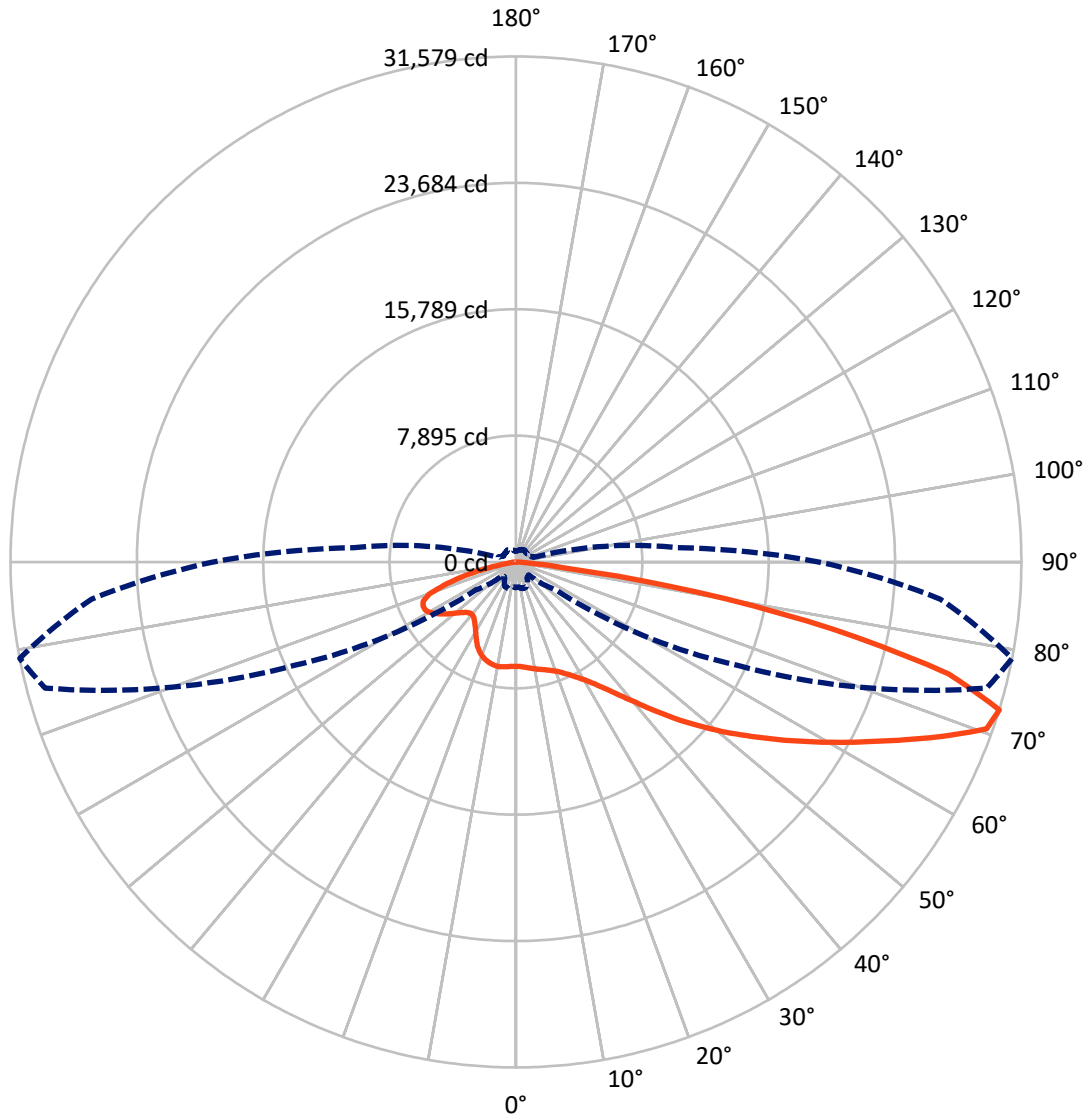
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	7144.1	0.0	7144.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	25320.9	0.0	25320.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	32465.0	0.0	32465.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.6	1.8
10°-20°	1546.6	4.8
20°-30°	2495.6	7.7
30°-40°	3745.6	11.5
40°-50°	5313.3	16.4
50°-60°	6710.0	20.7
60°-70°	6814.9	21.0
70°-80°	4644.7	14.3
80°-90°	602.6	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°	32465.0	100.0
0°-180°	32465.0	100.0

Coefficient of Utilization



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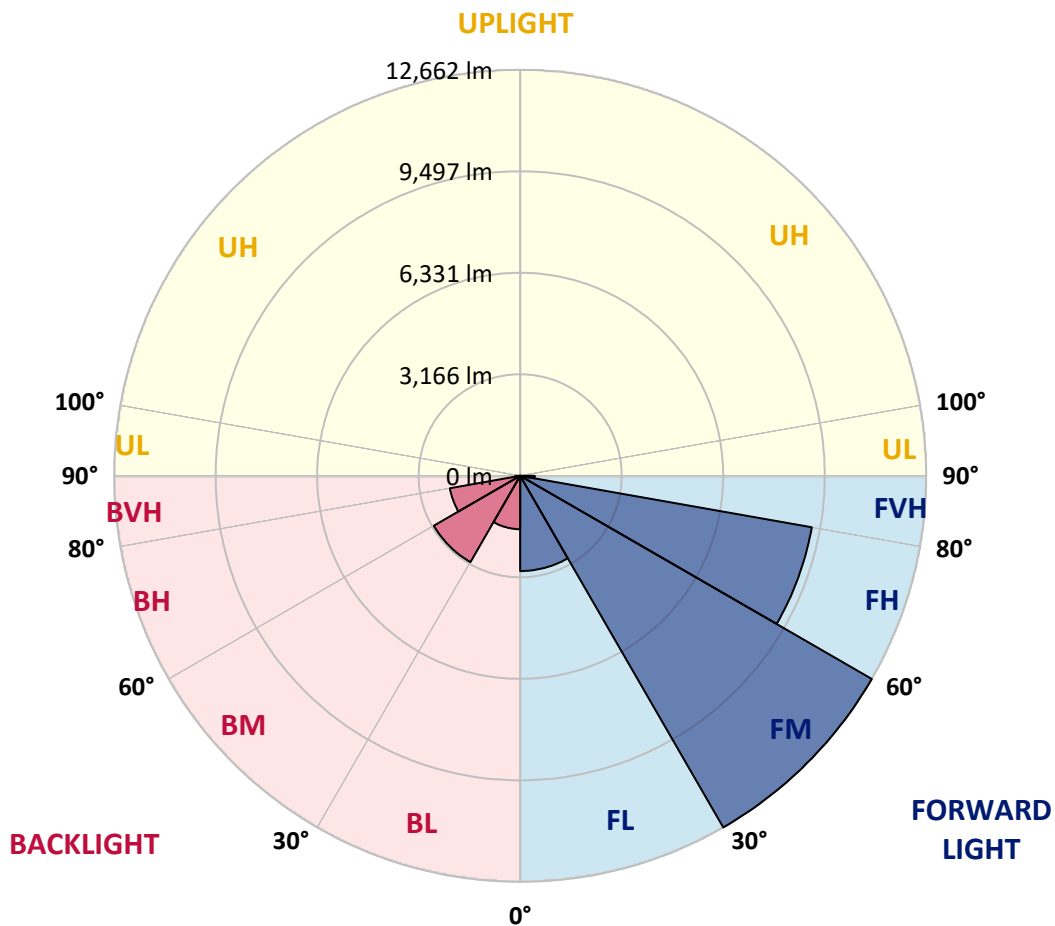
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2969.8	9.1			
FM (30°-60°)	12662.0	39.0			
FH (60°-80°)	9235.2	28.4			G4/12000
FVH (80°-90°)	453.9	1.4			G3/500
BL (0°-30°)	1664.1	5.1	B3/2500		
BM (30°-60°)	3106.9	9.6	B3/5000		
BH (60°-80°)	2224.4	6.9	B3/2500		G3/2500
BVH (80°-90°)	148.7	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°	6517.0	6517.0	6517.0	6517.0	6517.0	6517.0	6517.0	6517.0	6517.0	6517.0
2.5°	6520.5	6489.6	6508.5	6501.6	6510.2	6520.5	6523.9	6529.1	6546.2	6544.5
5°	6506.7	6475.8	6501.6	6493.0	6515.3	6539.4	6560.0	6578.9	6606.3	6618.4
7.5°	6477.5	6456.9	6482.7	6508.5	6549.7	6585.7	6614.9	6657.9	6697.4	6704.2
10°	6307.5	6292.1	6352.2	6419.2	6532.5	6630.4	6693.9	6743.7	6786.7	6793.5
12.5°	6130.7	6111.8	6178.7	6269.8	6453.5	6630.4	6764.3	6829.6	6867.4	6889.7
15°	6101.5	6086.0	6123.8	6202.8	6355.6	6584.0	6812.4	6932.6	6965.2	6991.0
17.5°	6242.3	6213.1	6228.5	6256.0	6345.3	6541.1	6850.2	7049.4	7099.2	7126.7
20°	6568.6	6527.3	6503.3	6448.3	6432.9	6548.0	6846.8	7190.2	7255.5	7289.8
22.5°	7003.0	6975.6	6924.0	6784.9	6633.8	6632.1	6912.0	7370.5	7492.4	7525.1
25°	7528.5	7487.3	7422.0	7233.1	6942.9	6798.7	7021.9	7600.6	7805.0	7813.6
27.5°	8133.0	8071.2	7981.9	7732.9	7341.3	7059.7	7190.2	7865.1	8163.9	8160.5
30°	8770.1	8708.3	8613.8	8311.6	7818.7	7411.7	7423.8	8150.2	8589.8	8570.9
32.5°	9235.5	9189.1	9170.2	8936.7	8368.3	7827.3	7691.7	8466.1	9115.3	9098.1
35°	9592.7	9532.6	9554.9	9436.4	8967.6	8292.7	8019.7	8842.2	9754.1	9752.4
37.5°	9946.4	9893.2	9912.1	9833.1	9522.3	8883.4	8419.8	9302.5	10545.8	10583.5
40°	10269.3	10212.6	10288.2	10214.3	9953.3	9512.0	8874.9	9822.8	11462.8	11534.9
42.5°	10463.3	10418.7	10544.0	10545.8	10327.7	10042.6	9374.6	10396.4	12524.1	12685.5
45°	10530.3	10514.8	10703.7	10743.2	10659.1	10350.0	9824.5	11021.4	13667.8	13956.3
47.5°	10458.2	10429.0	10690.0	10836.0	10902.9	10494.2	10197.1	11698.0	14835.5	15257.9
50°	10094.1	10037.4	10425.5	10732.9	10971.6	10588.7	10573.2	12479.4	16162.9	16624.9
52.5°	9439.8	9396.9	9838.2	10372.3	10820.5	10635.1	10995.7	13332.9	17423.4	18021.0
55°	8603.5	8546.9	9032.8	9730.1	10444.4	10619.6	11418.1	14287.7	18910.6	19516.8
57.5°	7277.8	7164.5	7779.2	8603.5	9831.4	10600.7	11857.8	15237.3	20421.8	21148.2
60°	5344.1	5175.9	5929.7	6906.9	8632.7	10417.0	12402.1	16302.0	22235.2	22889.5
62.5°	3111.7	3013.8	3506.7	4418.5	6506.7	9335.1	12707.8	17540.2	24017.7	24704.6
65°	2416.2	2388.7	2431.7	2502.1	3621.7	6989.3	11765.0	18747.4	26284.5	26765.4
67.5°	2210.1	2189.5	2208.4	2076.2	1837.5	3893.1	9307.6	19053.1	28712.8	29004.7
70°	1964.6	1940.5	2002.3	1889.0	1445.9	1770.5	6013.9	17943.8	30644.7	31192.5
72.5°	1600.5	1573.0	1717.3	1665.8	1217.5	1136.8	3020.7	15307.7	30442.0	31578.9
75°	1229.6	1214.1	1385.8	1428.8	992.6	894.7	1449.4	11378.6	26789.4	27934.8
77.5°	954.8	942.8	1030.4	1186.6	800.2	693.8	891.3	7217.7	20188.2	20389.1
80°	716.1	681.8	762.5	918.7	623.4	506.6	604.5	4209.0	12761.0	11567.5
82.5°	448.2	431.0	498.0	613.1	439.6	348.6	393.3	2325.2	5114.0	3012.1
85°	255.9	249.0	271.3	350.3	238.7	200.9	225.0	1026.9	934.2	642.3
87.5°	103.0	99.6	123.6	156.3	87.6	73.8	79.0	247.3	206.1	190.6
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°
6517.0	0°	6517.0	6517.0	6517.0	6517.0	6517.0	6517.0	6517.0	6517.0	6517.0	6517.0
6542.8	2.5°	6535.9	6535.9	6511.9	6474.1	6431.2	6403.7	6359.1	6347.0	6300.7	6286.9
6601.2	5°	6614.9	6601.2	6527.3	6420.9	6274.9	6141.0	5993.3	5900.5	5770.0	5723.7
6716.2	7.5°	6714.5	6676.7	6549.7	6316.1	6010.4	5709.9	5397.4	5160.4	4933.7	4853.0
6810.7	10°	6805.5	6752.3	6535.9	6127.2	5598.3	5078.0	4580.0	4231.4	3966.9	3858.7
6915.4	12.5°	6896.6	6798.7	6444.9	5813.0	5012.7	4306.9	3776.3	3504.9	3341.8	3211.3
7001.3	15°	6982.4	6845.0	6304.1	5392.2	4370.5	3654.4	3262.8	3046.4	2915.9	2830.1
7126.7	17.5°	7082.0	6884.5	6092.9	4858.2	3759.1	3202.7	2883.3	2752.8	2727.0	2716.7
7298.4	20°	7221.1	6920.6	5814.7	4260.5	3309.2	2842.1	2677.2	2665.2	2663.5	2658.3
7504.5	22.5°	7370.5	6963.5	5447.2	3717.9	2926.2	2617.1	2587.9	2563.9	2548.4	2546.7
7753.5	25°	7547.4	6977.3	4987.0	3273.1	2599.9	2510.6	2476.3	2440.2	2429.9	2429.9
8036.8	27.5°	7719.1	6930.9	4451.2	2886.7	2416.2	2412.8	2368.1	2356.1	2354.4	2359.5
8359.7	30°	7890.9	6843.3	3918.8	2529.5	2309.7	2309.7	2294.3	2302.9	2309.7	2326.9
8802.7	32.5°	8122.7	6750.6	3474.0	2265.1	2217.0	2199.8	2215.3	2232.5	2239.3	2261.6
9384.9	35°	8462.7	6685.3	3120.3	2120.8	2120.8	2098.5	2107.1	2103.7	2088.2	2077.9
10089.0	37.5°	8912.6	6681.9	2828.3	2053.9	2040.1	2036.7	2038.4	2016.1	1956.0	1883.8
10940.7	40°	9453.6	6774.6	2603.4	2007.5	1997.2	2017.8	2007.5	1947.4	1782.5	1657.2
11988.3	42.5°	10180.0	7039.1	2459.1	1950.8	1981.7	2007.5	1966.3	1758.5	1646.9	1562.7
13181.8	45°	11035.2	7468.4	2385.3	1890.7	1952.5	1983.4	1784.2	1693.2	1603.9	1502.6
14483.5	47.5°	12003.7	8009.3	2368.1	1834.0	1887.3	1906.2	1707.0	1665.8	1564.4	1454.5
15792.0	50°	13058.1	8649.9	2414.5	1767.1	1792.8	1727.6	1681.2	1643.4	1538.7	1430.5
17133.2	52.5°	14148.6	9355.7	2507.2	1676.1	1698.4	1626.3	1670.9	1638.3	1523.2	1377.3
18519.0	55°	15220.2	10066.6	2596.5	1569.6	1602.2	1535.2	1641.7	1617.7	1452.8	1288.0
19997.6	57.5°	16308.9	10774.2	2684.1	1475.1	1509.5	1447.7	1595.3	1562.7	1373.8	1205.5
21611.8	60°	17440.6	11461.1	2725.3	1384.1	1408.2	1366.9	1524.9	1468.3	1284.5	1121.4
23198.6	62.5°	18500.2	12032.9	2658.3	1293.1	1308.6	1291.4	1432.2	1356.6	1195.2	1026.9
24852.3	65°	19563.1	12372.9	2452.3	1203.8	1207.2	1198.7	1301.7	1236.4	1090.5	944.5
26300.0	67.5°	20526.5	12563.5	2124.3	1107.6	1099.1	1095.6	1179.8	1105.9	989.1	862.1
27400.8	70°	20730.9	12079.3	1622.8	994.3	994.3	985.7	1045.8	970.3	877.5	774.5
26612.5	72.5°	18934.6	10161.1	1152.3	865.5	879.2	862.1	911.9	848.3	764.2	695.5
22935.9	75°	15268.2	7451.2	838.0	733.3	757.3	728.1	774.5	729.8	657.7	656.0
15805.8	77.5°	10490.8	4607.4	607.9	604.5	621.7	583.9	637.1	613.1	547.8	518.6
6879.4	80°	4476.9	1837.5	443.1	467.1	467.1	432.8	494.6	501.4	444.8	431.0
1327.4	82.5°	891.3	522.1	310.8	321.1	302.2	291.9	350.3	388.1	535.8	595.9
400.1	85°	267.9	192.3	187.2	175.2	154.6	156.3	206.1	389.8	480.8	274.8
132.2	87.5°	73.8	48.1	49.8	39.5	32.6	42.9	70.4	295.4	161.4	68.7
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>
6517.0
6309.3
5758.0
4863.3
3882.7
3254.2
2845.5
2723.6
2675.5
2565.6
2440.2
2373.3
2338.9
2280.5
2101.9
1885.6
1653.7
1559.3
1495.7
1445.9
1418.5
1366.9
1279.4
1202.1
1116.2
1025.2
934.2
851.8
771.1
674.9
590.7
486.0
431.0
597.6
237.0
58.4
0.0

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