

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: P948203

Luminaire Tested: **GALN-SB3B-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948203
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12439 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

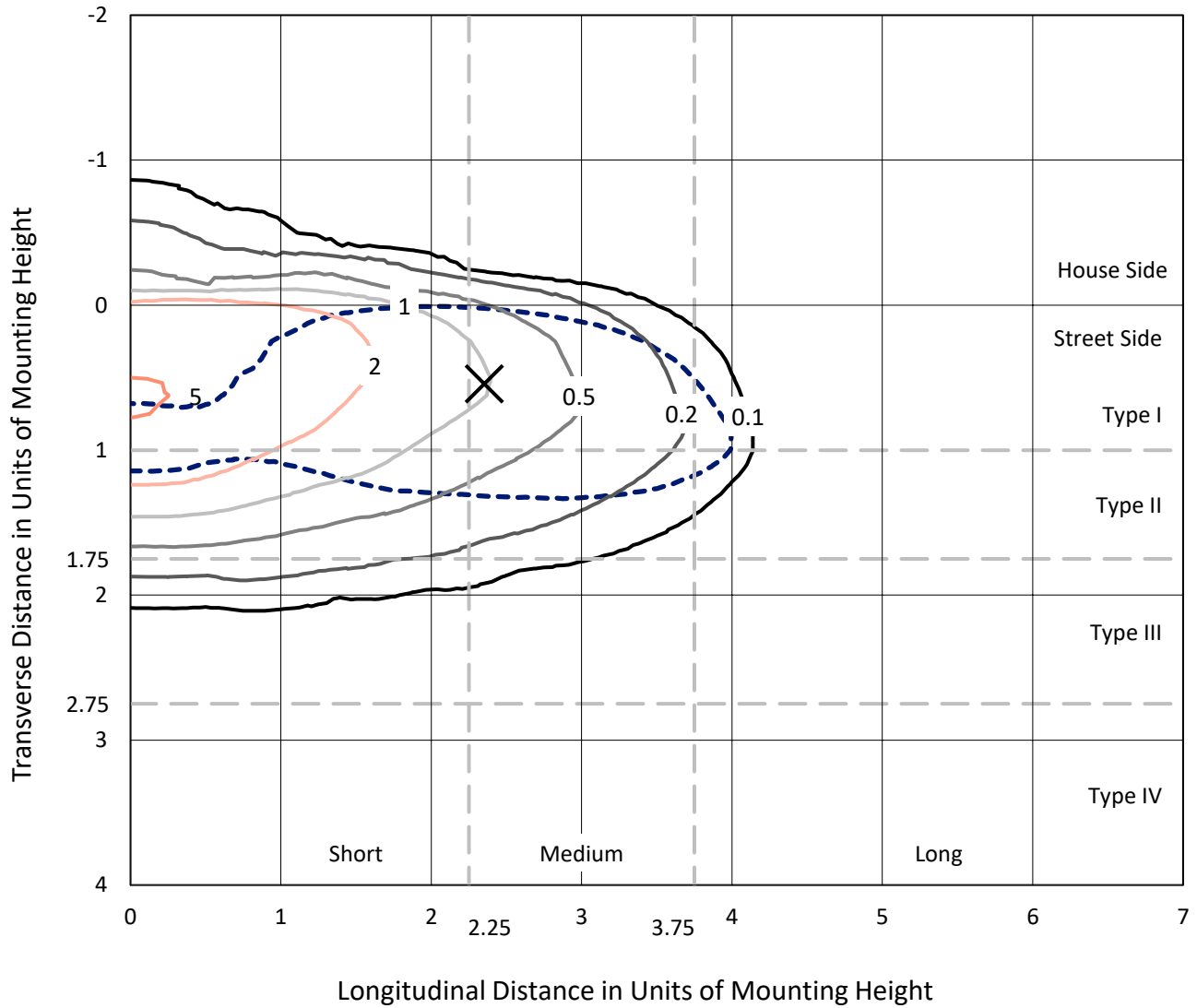
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

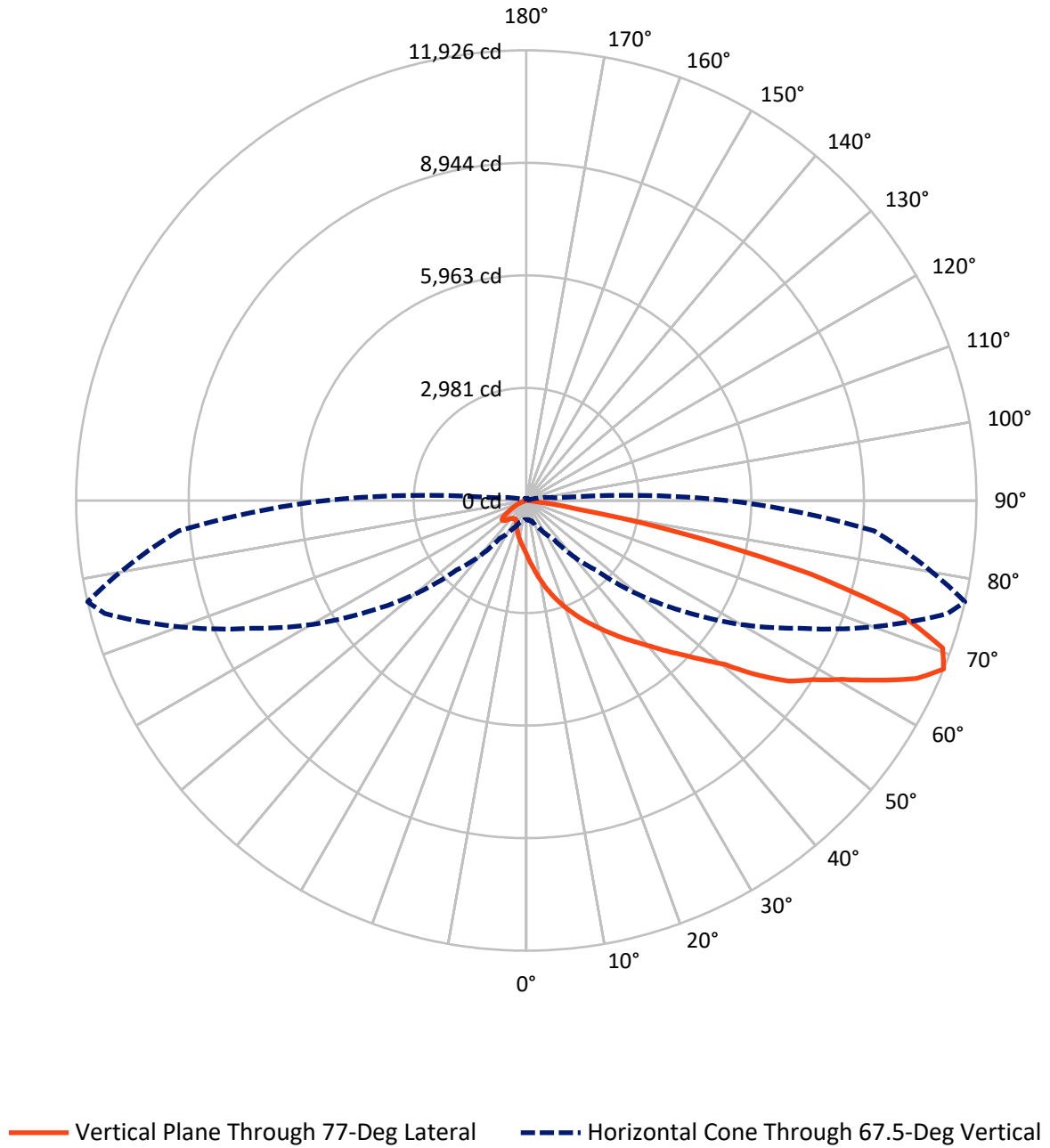
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	915.1	0.0	915.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	11523.9	0.0	11523.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	12439.0	0.0	12439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	1.2
10°-20°	512.7	4.1
20°-30°	989.3	8.0
30°-40°	1717.6	13.8
40°-50°	2493.8	20.0
50°-60°	2863.8	23.0
60°-70°	2486.3	20.0
70°-80°	1171.1	9.4
80°-90°	57.9	0.5
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°	12439.0	100.0
0°-180°	12439.0	100.0

Coefficient of Utilization



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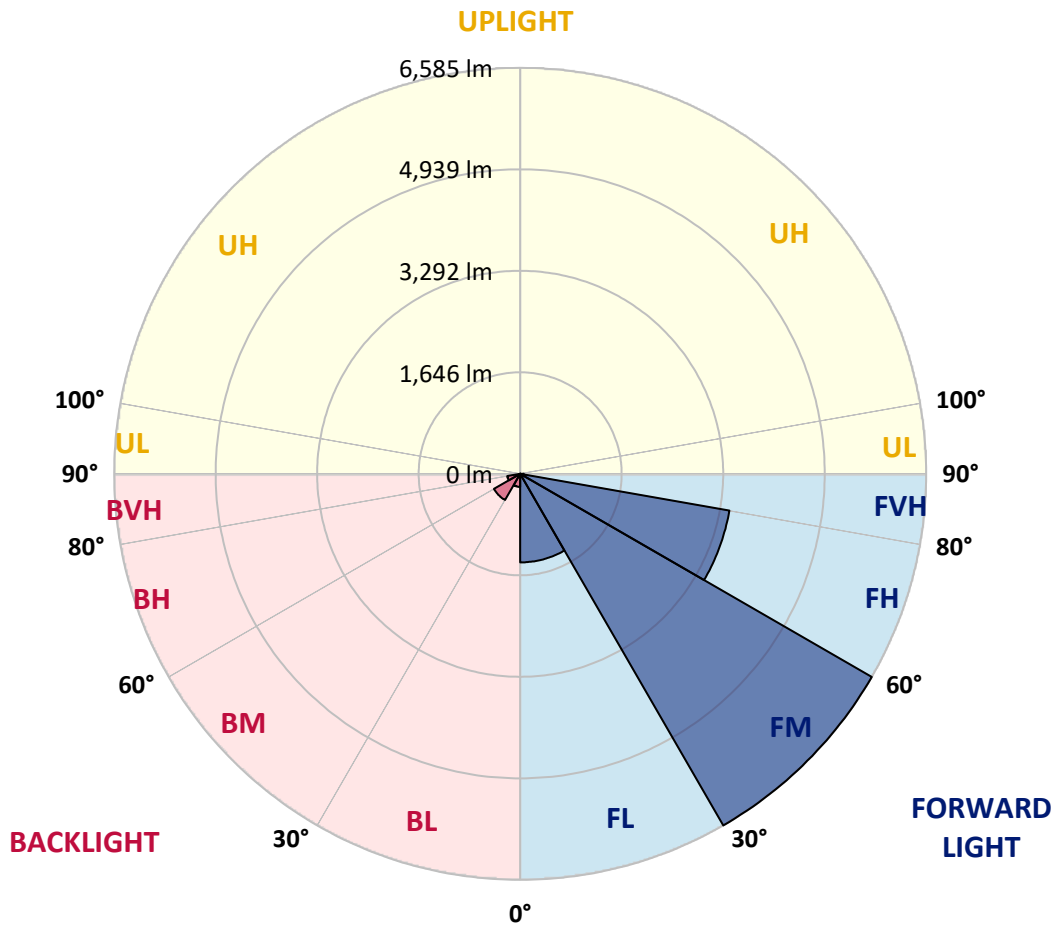
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1436.6	11.5			
FM (30°-60°)	6584.9	52.9			
FH (60°-80°)	3445.6	27.7			G2/5000
FVH (80°-90°)	56.8	0.5			G1/100
BL (0°-30°)	211.9	1.7	B1/500		
BM (30°-60°)	490.3	3.9	B1/1000		
BH (60°-80°)	211.9	1.7	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4
2.5°	1985.9	1998.3	1980.5	1946.5	1895.5	1862.3	1781.2	1704.7	1619.8	1592.7
5°	2420.8	2431.6	2411.5	2374.4	2306.5	2241.6	2135.0	1975.1	1809.0	1755.7
7.5°	2742.9	2749.1	2741.3	2707.4	2642.5	2569.1	2450.1	2260.9	2014.5	1955.8
10°	2974.6	2994.7	2992.4	2979.3	2936.0	2876.5	2749.8	2534.3	2244.7	2169.0
12.5°	3128.3	3150.7	3163.9	3193.2	3190.9	3153.1	3041.8	2814.0	2474.1	2385.3
15°	3173.1	3197.1	3247.3	3315.3	3375.5	3394.8	3316.8	3088.2	2726.7	2613.1
17.5°	3147.6	3184.7	3245.0	3352.3	3484.4	3571.7	3563.2	3353.1	2956.1	2826.3
20°	3204.0	3239.6	3286.7	3377.1	3530.8	3689.1	3752.5	3606.5	3183.9	3048.0
22.5°	3516.1	3509.9	3514.5	3529.2	3621.1	3777.9	3908.5	3836.7	3409.5	3270.5
25°	4010.4	3982.6	3935.5	3856.0	3832.8	3908.5	4044.4	4040.6	3647.4	3498.3
27.5°	4577.4	4572.8	4462.3	4270.8	4162.6	4133.3	4198.1	4239.1	3883.0	3723.9
30°	5120.4	5132.8	4983.7	4770.5	4572.0	4456.9	4398.2	4427.6	4122.5	3967.2
32.5°	5593.2	5606.3	5444.1	5194.6	4948.9	4809.9	4686.3	4613.7	4383.5	4214.4
35°	5992.5	6005.6	5819.5	5543.7	5281.9	5156.0	5016.2	4817.6	4646.2	4488.6
37.5°	6349.4	6345.5	6096.0	5817.9	5560.7	5461.1	5387.7	5068.7	4916.5	4764.3
40°	6560.2	6576.5	6363.3	6056.6	5807.1	5734.5	5729.9	5380.0	5228.6	5081.0
42.5°	6622.0	6650.6	6496.1	6244.3	6018.0	5939.2	6060.5	5716.7	5591.6	5447.9
45°	6510.8	6538.6	6468.3	6293.7	6161.7	6110.7	6344.7	6065.9	5979.4	5837.2
47.5°	6186.4	6221.1	6238.1	6201.1	6199.5	6251.3	6599.6	6433.6	6439.7	6294.5
50°	5558.4	5617.1	5773.1	5904.4	6107.6	6362.5	6847.6	6832.1	6958.8	6833.7
52.5°	4416.7	4500.2	5037.8	5397.0	5853.5	6341.6	7120.2	7471.7	7869.5	7686.4
55°	3549.3	3549.3	3986.5	4658.5	5357.6	6204.1	7239.2	7887.3	8489.8	8446.5
57.5°	2893.5	2928.3	3207.1	3801.1	4640.0	5876.6	7312.6	8148.3	8989.5	8957.9
60°	1785.9	1860.8	2387.6	2973.8	3823.5	5293.5	7266.2	8412.5	9595.9	9621.4
62.5°	1005.7	1033.5	1268.3	2139.6	2973.1	4509.4	6911.7	8560.1	10371.4	10479.5
65°	694.4	708.3	798.7	1331.7	2060.8	3590.2	6218.8	8468.1	11148.5	11367.1
67.5°	504.4	511.3	567.7	813.4	1222.8	2603.1	5132.8	8004.7	11560.2	11925.5
70°	387.8	392.4	433.3	534.5	722.2	1606.7	3727.7	7083.2	11262.0	11698.4
72.5°	315.2	319.8	351.5	395.5	478.9	950.1	2259.4	5752.3	9945.8	10417.0
75°	265.7	271.9	300.5	329.1	375.4	610.2	1059.8	4005.8	7479.4	7788.4
77.5°	147.5	135.9	244.1	272.7	316.7	386.2	495.9	2357.5	4188.9	4274.6
80°	91.9	95.0	193.9	219.4	243.3	194.7	227.1	907.6	1452.2	1379.6
82.5°	5.4	12.4	149.1	158.3	166.8	83.4	85.7	308.2	349.9	321.3
85°	0.0	0.0	68.0	54.8	57.9	23.9	24.7	71.8	47.1	51.0
87.5°	0.0	0.0	0.0	1.5	0.0	2.3	4.6	6.2	2.3	3.1
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°
1434.4	0°	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4
1507.8	2.5°	1453.7	1399.6	1290.0	1182.6	1095.3	1014.2	956.3	901.4	873.6	872.1
1605.1	5°	1497.7	1384.2	1164.8	970.9	814.9	689.8	608.7	550.7	521.4	511.3
1724.8	7.5°	1559.5	1388.8	1055.1	785.6	601.7	494.4	448.0	429.5	423.3	416.3
1860.0	10°	1637.5	1399.6	957.0	632.6	474.3	420.2	401.7	393.9	389.3	384.7
2012.2	12.5°	1724.8	1409.7	859.7	525.3	417.1	389.3	376.2	366.9	360.7	355.3
2168.2	15°	1809.8	1415.9	758.5	450.3	387.8	365.4	351.5	341.4	332.9	326.7
2321.1	17.5°	1894.0	1424.4	663.5	405.5	363.8	341.4	327.5	315.2	308.2	301.2
2481.8	20°	1987.5	1422.8	573.9	373.9	339.9	317.5	302.8	291.2	284.3	276.5
2651.7	22.5°	2074.0	1415.1	495.1	346.8	315.2	293.5	277.3	265.7	258.8	252.6
2825.5	25°	2173.6	1408.9	429.5	322.1	292.0	270.3	252.6	241.8	234.0	228.6
3000.1	27.5°	2269.4	1399.6	381.6	299.7	269.6	248.7	231.7	219.4	212.4	208.6
3180.1	30°	2363.6	1397.3	363.8	278.1	249.5	228.6	211.6	200.1	194.7	193.1
3377.8	32.5°	2477.2	1403.5	371.5	270.3	231.0	210.1	193.9	185.4	180.0	180.0
3598.0	35°	2598.4	1402.0	383.1	277.3	218.6	191.6	179.2	173.8	168.4	168.4
3842.1	37.5°	2750.6	1404.3	392.4	288.9	214.0	176.1	169.2	162.2	159.1	159.1
4109.3	40°	2977.7	1480.7	387.8	298.9	212.4	165.3	151.4	149.1	146.8	146.8
4411.3	42.5°	3255.8	1646.8	393.9	299.7	211.6	157.6	139.0	143.7	138.3	137.5
4752.0	45°	3560.1	1828.3	433.3	283.5	210.9	153.7	132.9	138.3	129.8	129.8
5146.7	47.5°	3862.1	2008.3	473.5	260.3	208.6	152.9	127.5	124.4	122.0	122.8
5661.1	50°	4278.5	2155.1	488.9	228.6	203.1	151.4	117.4	118.2	116.6	118.2
6386.4	52.5°	4731.9	2186.0	470.4	193.1	187.7	146.8	110.5	113.5	112.8	114.3
6897.0	55°	5014.6	2152.8	388.5	160.7	163.8	128.2	103.5	109.7	109.7	109.7
7396.0	57.5°	5306.6	2011.4	275.8	130.5	135.9	105.1	97.3	105.8	105.1	104.3
7997.0	60°	5516.7	1782.8	181.5	107.4	108.1	86.5	90.4	99.6	98.9	95.0
8616.4	62.5°	5673.5	1530.2	116.6	91.1	82.6	78.0	82.6	90.4	87.3	78.8
9141.7	65°	5655.7	1180.3	89.6	78.0	68.0	68.0	71.8	78.8	69.5	55.6
9242.1	67.5°	5325.9	798.7	74.2	65.7	57.2	56.4	59.5	65.7	59.5	47.1
8727.7	70°	4736.5	522.2	59.5	51.0	45.6	41.7	47.9	56.4	50.2	37.8
7430.0	72.5°	3844.4	318.2	44.8	37.1	33.2	27.0	37.8	46.3	40.2	27.8
5166.8	75°	2487.2	162.2	30.9	23.9	17.8	16.2	27.8	34.8	27.8	17.0
2292.6	77.5°	951.6	68.0	17.0	10.8	9.3	7.7	15.4	20.9	11.6	3.9
444.1	80°	183.1	28.6	8.5	5.4	4.6	3.1	2.3	1.5	0.0	0.0
78.8	82.5°	31.7	9.3	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
15.4	85°	10.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.4	87.5°	3.9	0.0	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°
1434.4
870.5
509.8
414.8
383.1
353.8
326.0
300.5
275.8
251.8
227.9
208.6
192.3
180.0
168.4
159.1
146.8
136.7
129.8
122.8
118.2
114.3
109.7
104.3
95.0
77.2
54.1
45.6
36.3
26.3
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