

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: P947594

Luminaire Tested: **GALN-SB2D-927-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947594
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-SB2D-927-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 900mA 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: 10488 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

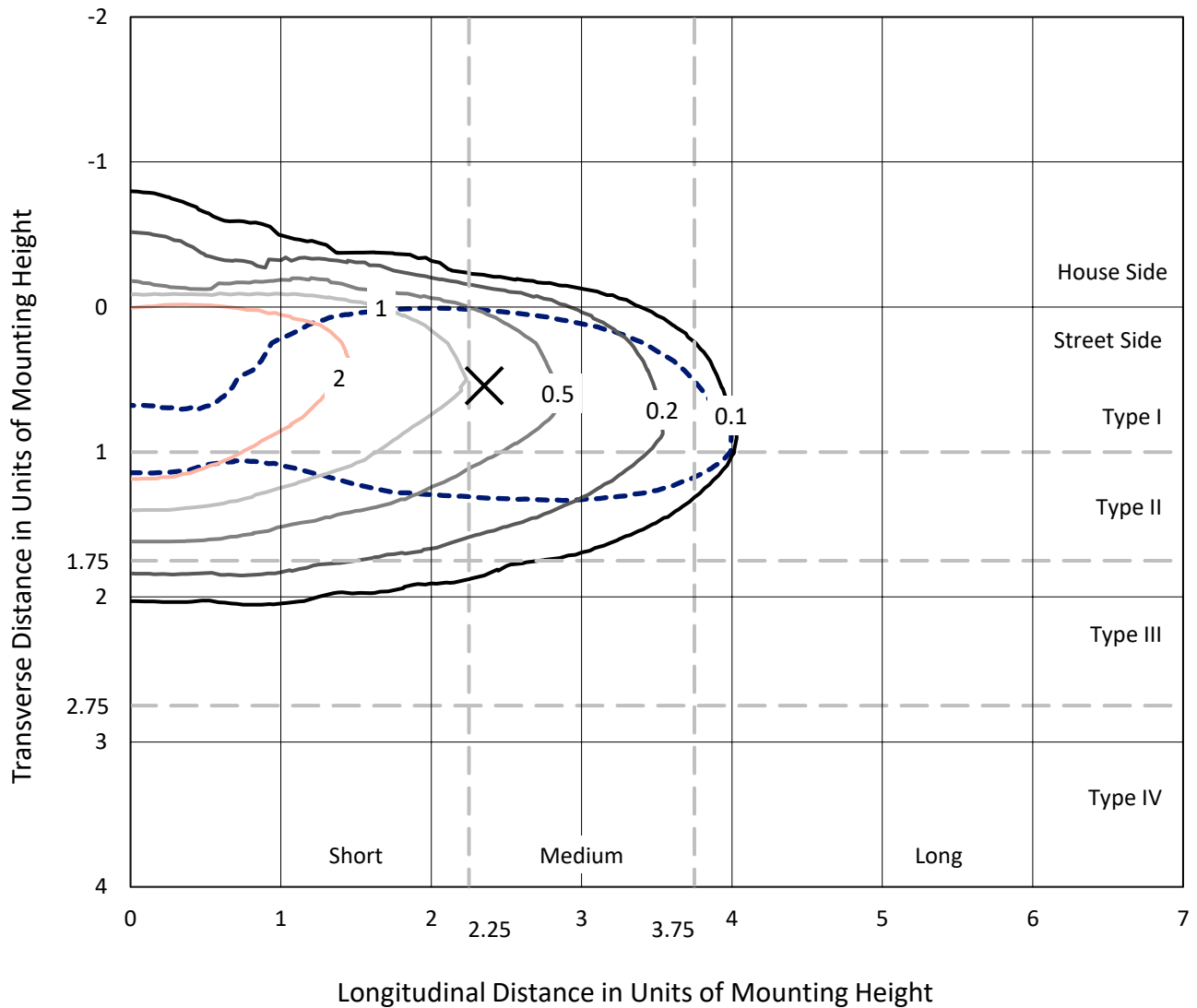
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

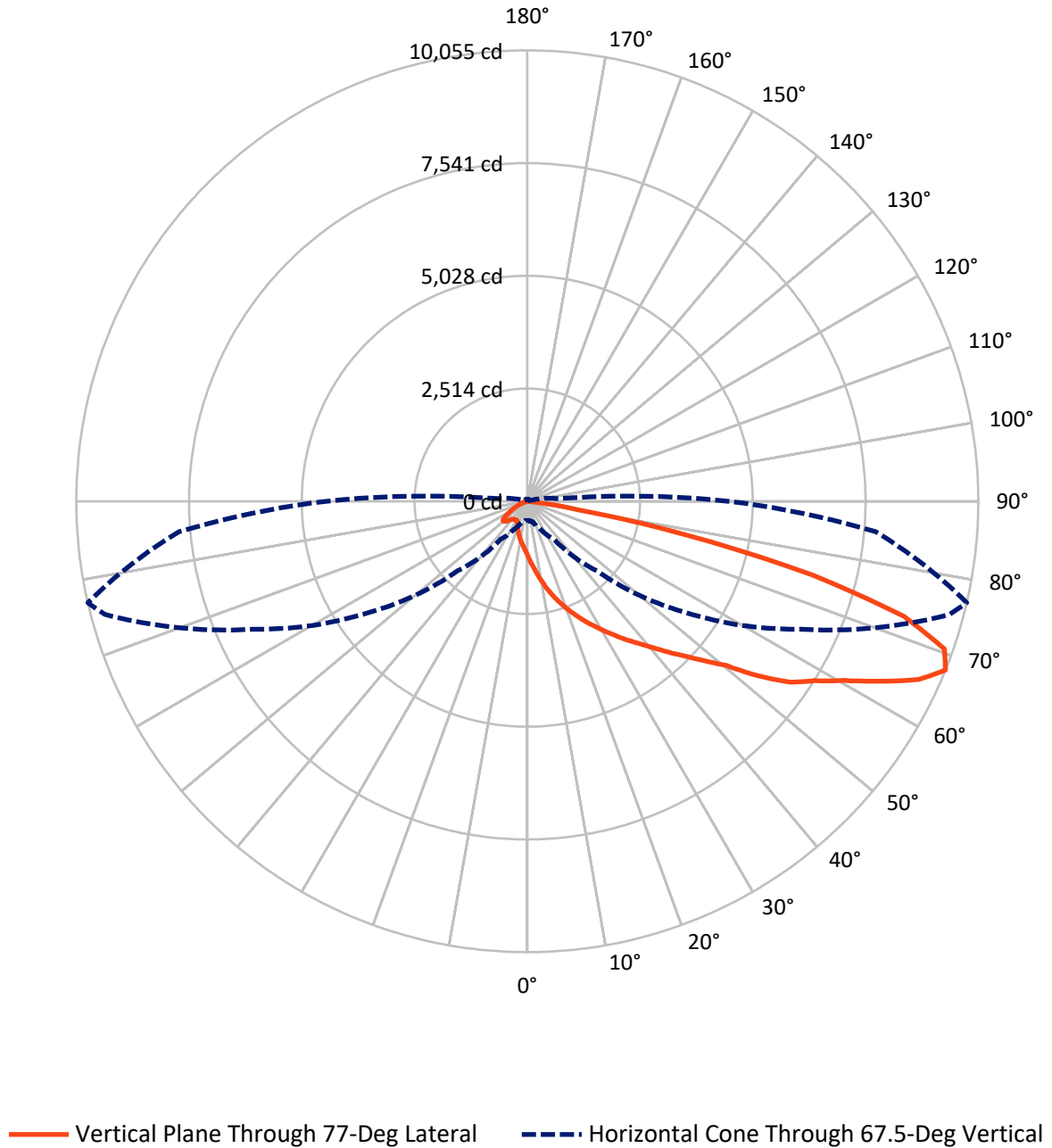
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	771.6	0.0	771.6
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	9716.4	0.0	9716.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	10488.0	0.0	10488.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	1.2
10°-20°	432.3	4.1
20°-30°	834.2	8.0
30°-40°	1448.2	13.8
40°-50°	2102.7	20.0
50°-60°	2414.7	23.0
60°-70°	2096.4	20.0
70°-80°	987.4	9.4
80°-90°	48.8	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°	10488.0	100.0
0°-180°	10488.0	100.0

Coefficient of Utilization



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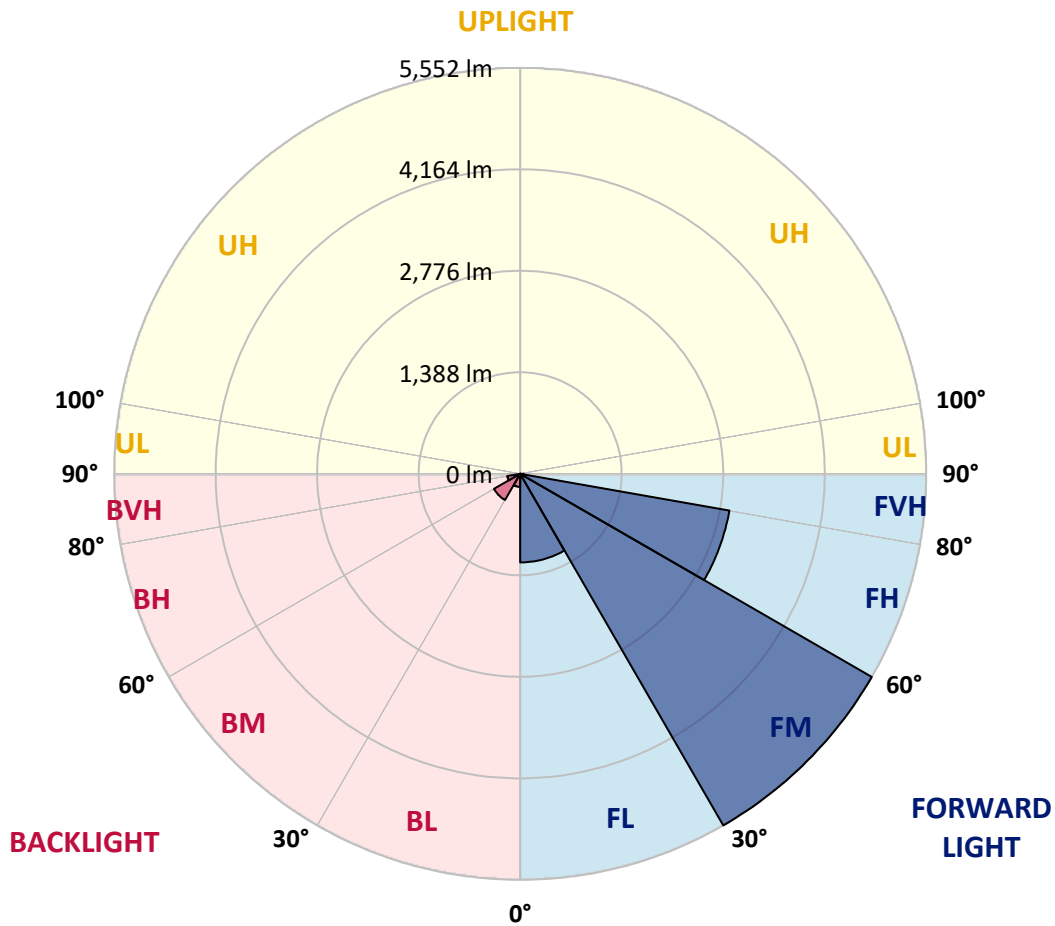
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1211.3	11.5			
FM (30°-60°)	5552.1	52.9			
FH (60°-80°)	2905.1	27.7			G2/5000
FVH (80°-90°)	47.9	0.5			G1/100
BL (0°-30°)	178.6	1.7	B1/500		
BM (30°-60°)	413.4	3.9	B1/1000		
BH (60°-80°)	178.6	1.7	B1/500		G1/500
BVH (80°-90°)	0.9	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°	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4
2.5°	1674.4	1684.9	1669.9	1641.2	1598.2	1570.2	1501.8	1437.4	1365.7	1342.9
5°	2041.1	2050.2	2033.3	2002.0	1944.7	1890.0	1800.1	1665.3	1525.3	1480.4
7.5°	2312.7	2317.9	2311.4	2282.7	2228.0	2166.1	2065.8	1906.3	1698.5	1649.0
10°	2508.1	2525.0	2523.0	2512.0	2475.5	2425.4	2318.5	2136.8	1892.6	1828.8
12.5°	2637.7	2656.6	2667.6	2692.4	2690.4	2658.5	2564.7	2372.6	2086.0	2011.1
15°	2675.4	2695.6	2738.0	2795.3	2846.1	2862.4	2796.6	2603.8	2299.0	2203.3
17.5°	2654.0	2685.2	2736.0	2826.5	2937.9	3011.5	3004.3	2827.2	2492.4	2383.0
20°	2701.5	2731.5	2771.2	2847.4	2977.0	3110.5	3163.9	3040.8	2684.6	2569.9
22.5°	2964.6	2959.4	2963.3	2975.7	3053.2	3185.4	3295.5	3234.9	2874.7	2757.5
25°	3381.4	3358.0	3318.3	3251.2	3231.6	3295.5	3410.1	3406.8	3075.3	2949.6
27.5°	3859.5	3855.6	3762.4	3600.9	3509.7	3485.0	3539.7	3574.2	3274.0	3139.8
30°	4317.3	4327.7	4202.0	4022.3	3854.9	3757.9	3708.4	3733.1	3475.9	3345.0
32.5°	4715.9	4727.0	4590.2	4379.8	4172.7	4055.5	3951.3	3890.1	3696.0	3553.4
35°	5052.6	5063.7	4906.7	4674.2	4453.4	4347.3	4229.4	4062.0	3917.4	3784.6
37.5°	5353.5	5350.2	5139.9	4905.4	4688.5	4604.5	4542.7	4273.7	4145.4	4017.1
40°	5531.3	5545.0	5365.2	5106.7	4896.3	4835.1	4831.2	4536.1	4408.5	4284.1
42.5°	5583.4	5607.5	5477.2	5264.9	5074.1	5007.7	5109.9	4820.1	4714.6	4593.5
45°	5489.6	5513.1	5453.8	5306.6	5195.2	5152.2	5349.6	5114.5	5041.5	4921.7
47.5°	5216.1	5245.4	5259.7	5228.4	5227.1	5270.8	5564.5	5424.5	5429.7	5307.3
50°	4686.6	4736.1	4867.6	4978.4	5149.6	5364.6	5773.6	5760.5	5867.4	5761.8
52.5°	3724.0	3794.3	4247.6	4550.5	4935.4	5347.0	6003.5	6299.8	6635.2	6480.9
55°	2992.6	2992.6	3361.2	3927.8	4517.3	5231.1	6103.8	6650.2	7158.2	7121.7
57.5°	2439.7	2469.0	2704.1	3204.9	3912.2	4954.9	6165.6	6870.3	7579.6	7552.9
60°	1505.8	1568.9	2013.1	2507.4	3223.8	4463.2	6126.6	7093.1	8090.8	8112.3
62.5°	848.0	871.4	1069.4	1804.0	2506.8	3802.2	5827.6	7217.4	8744.7	8835.9
65°	585.5	597.2	673.4	1122.8	1737.6	3027.1	5243.4	7139.9	9399.9	9584.2
67.5°	425.3	431.1	478.7	685.8	1031.0	2194.8	4327.7	6749.2	9747.0	10055.1
70°	326.9	330.8	365.4	450.7	608.9	1354.7	3143.1	5972.2	9495.6	9863.6
72.5°	265.7	269.6	296.3	333.5	403.8	801.1	1905.0	4850.1	8385.8	8783.1
75°	224.0	229.2	253.3	277.4	316.5	514.5	893.6	3377.5	6306.3	6566.8
77.5°	124.4	114.6	205.8	229.9	267.0	325.6	418.1	1987.7	3531.9	3604.2
80°	77.5	80.1	163.5	185.0	205.2	164.1	191.5	765.2	1224.4	1163.2
82.5°	4.6	10.4	125.7	133.5	140.7	70.3	72.3	259.9	295.0	270.9
85°	0.0	0.0	57.3	46.2	48.8	20.2	20.8	60.6	39.7	43.0
87.5°	0.0	0.0	0.0	1.3	0.0	2.0	3.9	5.2	2.0	2.6
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°
1209.4	0°	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4
1271.3	2.5°	1225.7	1180.1	1087.6	997.1	923.5	855.1	806.3	760.0	736.6	735.3
1353.4	5°	1262.8	1167.1	982.1	818.7	687.1	581.6	513.2	464.4	439.6	431.1
1454.3	7.5°	1314.9	1171.0	889.6	662.3	507.3	416.8	377.7	362.1	356.9	351.0
1568.3	10°	1380.7	1180.1	806.9	533.4	399.9	354.3	338.7	332.2	328.2	324.3
1696.6	12.5°	1454.3	1188.6	724.9	442.9	351.7	328.2	317.2	309.4	304.1	299.6
1828.1	15°	1525.9	1193.8	639.6	379.7	326.9	308.1	296.3	287.9	280.7	275.5
1957.1	17.5°	1596.9	1201.0	559.4	341.9	306.8	287.9	276.1	265.7	259.9	254.0
2092.6	20°	1675.7	1199.7	483.9	315.2	286.6	267.7	255.3	245.5	239.7	233.2
2235.8	22.5°	1748.7	1193.1	417.5	292.4	265.7	247.5	233.8	224.0	218.2	213.0
2382.4	25°	1832.7	1187.9	362.1	271.6	246.2	227.9	213.0	203.8	197.3	192.8
2529.6	27.5°	1913.5	1180.1	321.7	252.7	227.3	209.7	195.4	185.0	179.1	175.8
2681.3	30°	1992.9	1178.2	306.8	234.5	210.4	192.8	178.4	168.7	164.1	162.8
2848.0	32.5°	2088.6	1183.4	313.3	227.9	194.7	177.1	163.5	156.3	151.7	151.7
3033.6	35°	2190.9	1182.1	323.0	233.8	184.3	161.5	151.1	146.5	142.0	142.0
3239.4	37.5°	2319.2	1184.0	330.8	243.6	180.4	148.5	142.6	136.8	134.2	134.2
3464.8	40°	2510.7	1248.5	326.9	252.0	179.1	139.4	127.7	125.7	123.7	123.7
3719.4	42.5°	2745.1	1388.5	332.2	252.7	178.4	132.9	117.2	121.1	116.6	115.9
4006.7	45°	3001.7	1541.6	365.4	239.0	177.8	129.6	112.0	116.6	109.4	109.4
4339.5	47.5°	3256.4	1693.3	399.2	219.5	175.8	129.0	107.5	104.9	102.9	103.6
4773.2	50°	3607.4	1817.1	412.3	192.8	171.3	127.7	99.0	99.6	98.3	99.6
5384.8	52.5°	3989.7	1843.1	396.6	162.8	158.3	123.7	93.1	95.7	95.1	96.4
5815.2	55°	4228.1	1815.1	327.6	135.5	138.1	108.1	87.3	92.5	92.5	92.5
6236.0	57.5°	4474.3	1695.9	232.5	110.1	114.6	88.6	82.1	89.2	88.6	87.9
6742.7	60°	4651.4	1503.1	153.0	90.5	91.2	72.9	76.2	84.0	83.4	80.1
7265.0	62.5°	4783.6	1290.2	98.3	76.9	69.7	65.8	69.7	76.2	73.6	66.4
7707.9	65°	4768.6	995.2	75.5	65.8	57.3	57.3	60.6	66.4	58.6	46.9
7792.5	67.5°	4490.6	673.4	62.5	55.4	48.2	47.5	50.1	55.4	50.1	39.7
7358.8	70°	3993.6	440.3	50.1	43.0	38.4	35.2	40.4	47.5	42.3	31.9
6264.6	72.5°	3241.4	268.3	37.8	31.3	28.0	22.8	31.9	39.1	33.9	23.4
4356.4	75°	2097.1	136.8	26.1	20.2	15.0	13.7	23.4	29.3	23.4	14.3
1933.0	77.5°	802.4	57.3	14.3	9.1	7.8	6.5	13.0	17.6	9.8	3.3
374.5	80°	154.4	24.1	7.2	4.6	3.9	2.6	2.0	1.3	0.0	0.0
66.4	82.5°	26.7	7.8	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
13.0	85°	9.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.6	87.5°	3.3	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°
1209.4
734.0
429.8
349.7
323.0
298.3
274.8
253.3
232.5
212.3
192.1
175.8
162.2
151.7
142.0
134.2
123.7
115.3
109.4
103.6
99.6
96.4
92.5
87.9
80.1
65.1
45.6
38.4
30.6
22.1
12.4
2.6
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