

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: P947867

Luminaire Tested: **GALN-SB3A-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947867
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-SB3A-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA 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: 10239 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

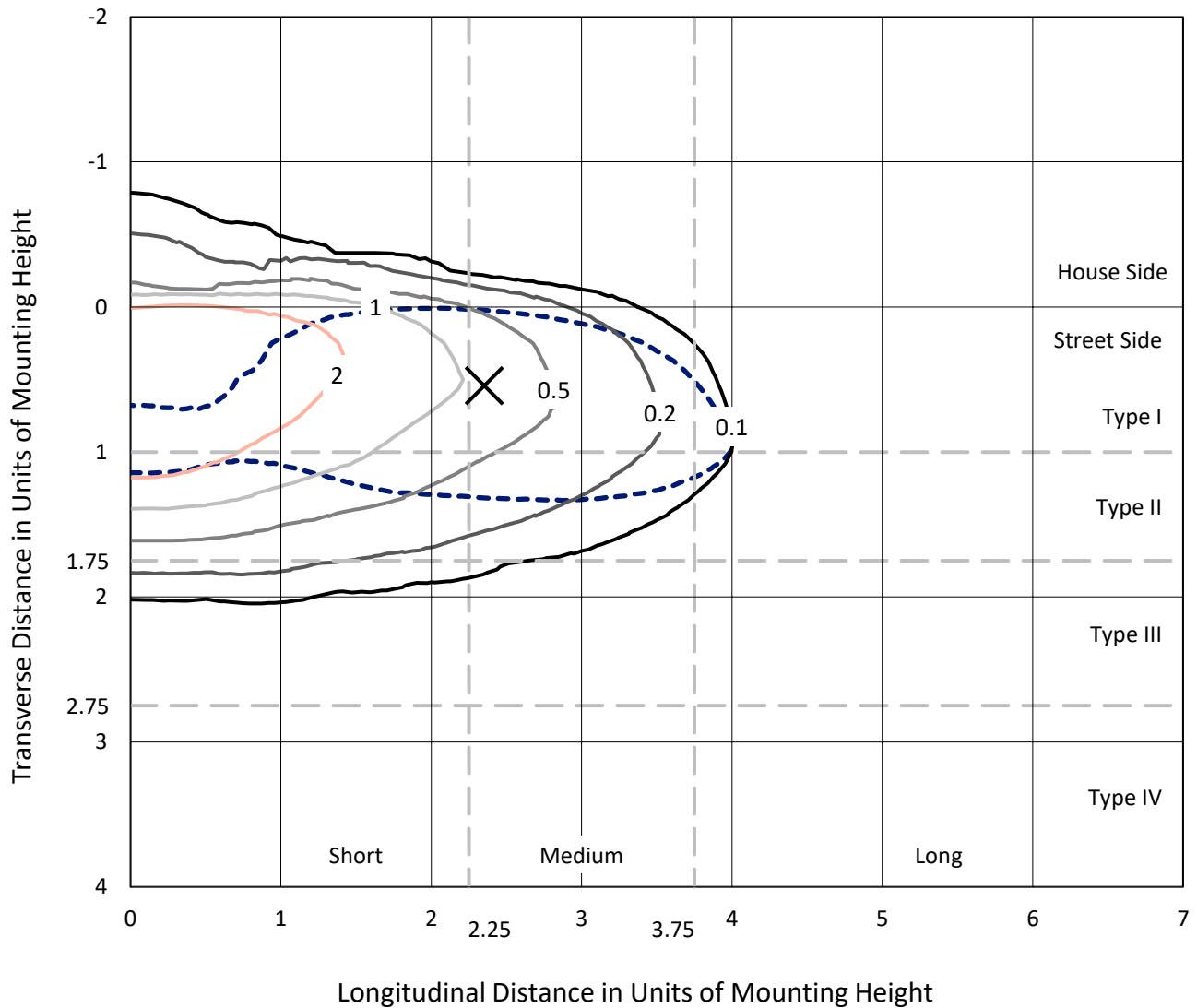
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

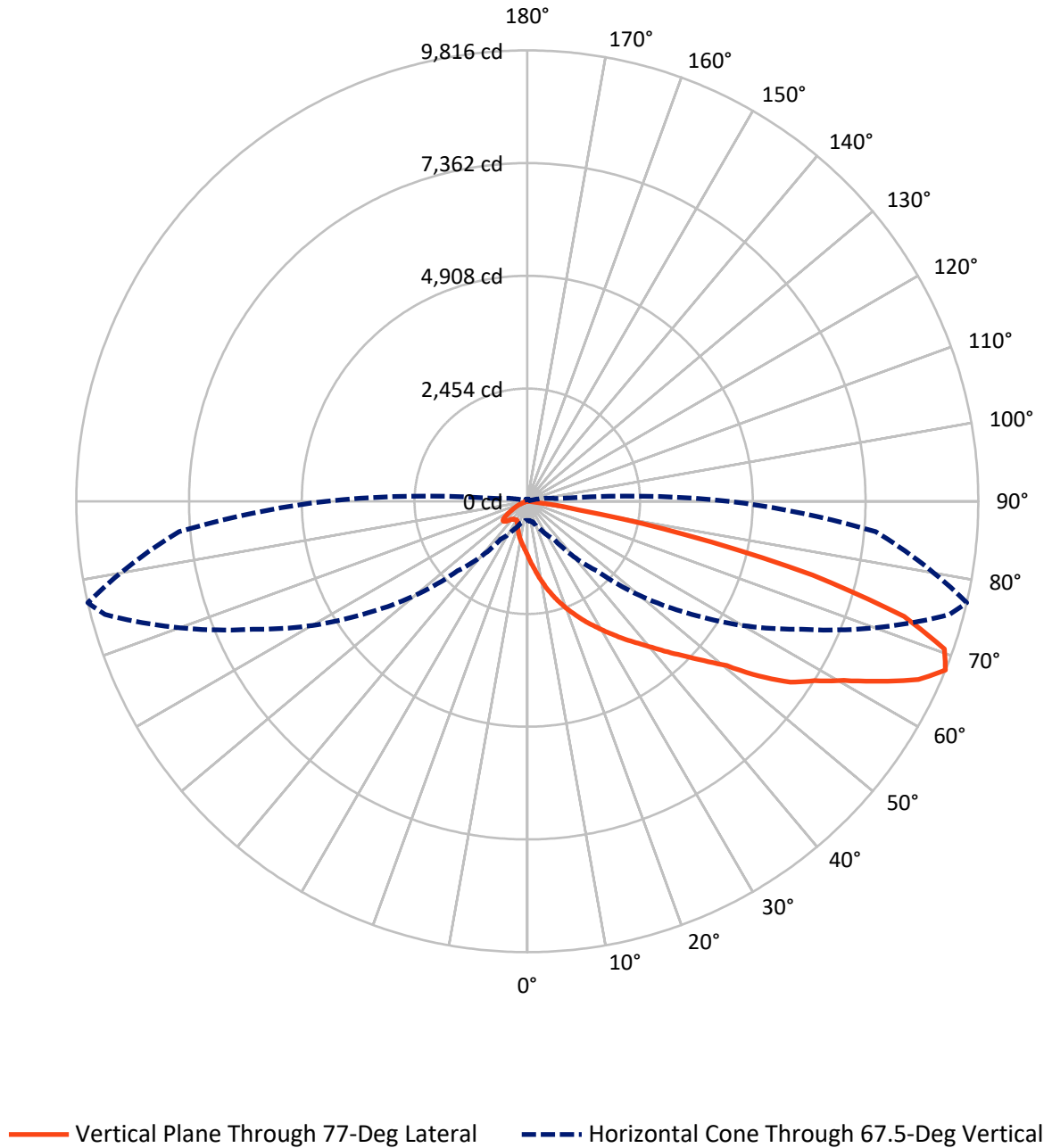
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	753.3	0.0	753.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	9485.7	0.0	9485.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	10239.0	0.0	10239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	1.2
10°-20°	422.0	4.1
20°-30°	814.4	8.0
30°-40°	1413.8	13.8
40°-50°	2052.8	20.0
50°-60°	2357.3	23.0
60°-70°	2046.6	20.0
70°-80°	964.0	9.4
80°-90°	47.7	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°	10239.0	100.0
0°-180°	10239.0	100.0

Coefficient of Utilization



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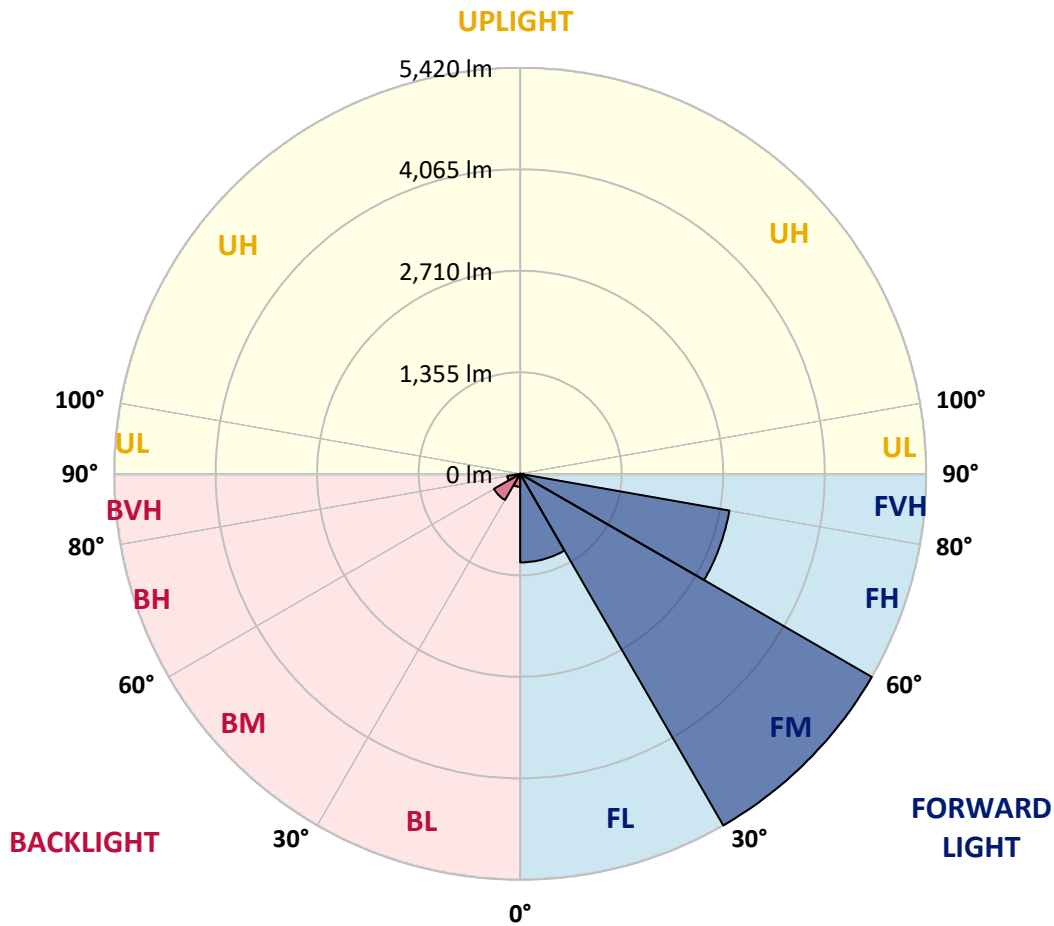
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1182.5	11.5			
FM (30°-60°)	5420.2	52.9			
FH (60°-80°)	2836.2	27.7			G2/5000
FVH (80°-90°)	46.8	0.5			G1/100
BL (0°-30°)	174.4	1.7	B1/500		
BM (30°-60°)	403.6	3.9	B1/1000		
BH (60°-80°)	174.4	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°	1180.7	1180.7	1180.7	1180.7	1180.7	1180.7	1180.7	1180.7	1180.7	1180.7
2.5°	1634.7	1644.9	1630.2	1602.3	1560.3	1532.9	1466.2	1403.2	1333.3	1311.0
5°	1992.6	2001.5	1985.0	1954.5	1898.5	1845.1	1757.4	1625.8	1489.1	1445.2
7.5°	2257.8	2262.9	2256.5	2228.5	2175.1	2114.7	2016.8	1861.0	1658.2	1609.9
10°	2448.5	2465.1	2463.1	2452.3	2416.7	2367.8	2263.5	2086.1	1847.7	1785.4
12.5°	2575.0	2593.5	2604.3	2628.5	2626.5	2595.4	2503.8	2316.3	2036.5	1963.4
15°	2611.9	2631.6	2673.0	2728.9	2778.5	2794.4	2730.2	2542.0	2244.4	2151.0
17.5°	2590.9	2621.5	2671.1	2759.4	2868.2	2940.0	2933.0	2760.1	2433.3	2326.4
20°	2637.4	2666.6	2705.4	2779.8	2906.3	3036.6	3088.8	2968.6	2620.8	2508.9
22.5°	2894.2	2889.1	2893.0	2905.0	2980.7	3109.8	3217.2	3158.1	2806.5	2692.0
25°	3301.1	3278.3	3239.5	3174.0	3154.9	3217.2	3329.1	3325.9	3002.3	2879.6
27.5°	3767.8	3764.0	3673.1	3515.4	3426.4	3402.2	3455.7	3489.3	3196.2	3065.3
30°	4214.8	4225.0	4102.3	3926.8	3763.4	3668.6	3620.3	3644.5	3393.3	3265.5
32.5°	4603.9	4614.7	4481.2	4275.9	4073.7	3959.2	3857.5	3797.7	3608.2	3469.0
35°	4932.6	4943.5	4790.2	4563.2	4347.7	4244.1	4129.0	3965.6	3824.4	3694.7
37.5°	5226.4	5223.2	5017.8	4789.0	4577.2	4495.2	4434.8	4172.2	4047.0	3921.7
40°	5400.0	5413.3	5237.8	4985.4	4780.1	4720.3	4716.5	4428.4	4303.8	4182.4
42.5°	5450.8	5474.4	5347.2	5139.9	4953.6	4888.8	4988.6	4705.7	4602.7	4484.4
45°	5359.3	5382.2	5324.3	5180.6	5071.9	5029.9	5222.6	4993.0	4921.8	4804.8
47.5°	5092.2	5120.8	5134.8	5104.3	5103.0	5145.6	5432.4	5295.7	5300.8	5181.3
50°	4575.3	4623.6	4752.1	4860.2	5027.4	5237.2	5636.5	5623.8	5728.1	5625.0
52.5°	3635.6	3704.3	4146.8	4442.4	4818.2	5220.0	5860.9	6150.2	6477.7	6327.0
55°	2921.6	2921.6	3281.4	3834.6	4410.0	5106.9	5958.9	6492.3	6988.2	6952.6
57.5°	2381.8	2410.4	2639.9	3128.8	3819.3	4837.3	6019.3	6707.2	7399.6	7373.5
60°	1470.0	1531.7	1965.3	2447.9	3147.3	4357.2	5981.1	6924.7	7898.7	7919.7
62.5°	827.8	850.7	1044.0	1761.2	2447.2	3711.9	5689.3	7046.1	8537.1	8626.1
65°	571.6	583.0	657.4	1096.1	1696.4	2955.3	5118.9	6970.4	9176.7	9356.6
67.5°	415.2	420.9	467.3	669.5	1006.5	2142.7	4225.0	6588.9	9515.6	9816.3
70°	319.2	323.0	356.7	440.0	594.5	1322.5	3068.4	5830.4	9270.2	9629.4
72.5°	259.4	263.2	289.3	325.5	394.2	782.1	1859.8	4734.9	8186.7	8574.6
75°	218.7	223.8	247.3	270.9	309.0	502.3	872.3	3297.3	6156.6	6410.9
77.5°	121.4	111.9	200.9	224.4	260.7	317.9	408.2	1940.5	3448.0	3518.6
80°	75.7	78.2	159.6	180.6	200.3	160.2	186.9	747.1	1195.3	1135.6
82.5°	4.5	10.2	122.7	130.3	137.3	68.7	70.6	253.7	288.0	264.5
85°	0.0	0.0	56.0	45.1	47.7	19.7	20.3	59.1	38.8	42.0
87.5°	0.0	0.0	0.0	1.3	0.0	1.9	3.8	5.1	1.9	2.5
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°
1180.7	0°	1180.7	1180.7	1180.7	1180.7	1180.7	1180.7	1180.7	1180.7	1180.7	1180.7
1241.1	2.5°	1196.6	1152.1	1061.8	973.4	901.6	834.8	787.1	742.0	719.1	717.8
1321.2	5°	1232.8	1139.4	958.8	799.2	670.8	567.8	501.0	453.3	429.2	420.9
1419.8	7.5°	1283.7	1143.2	868.5	646.6	495.3	406.9	368.8	353.5	348.4	342.7
1531.0	10°	1347.9	1152.1	787.8	520.7	390.4	345.9	330.6	324.3	320.5	316.6
1656.3	12.5°	1419.8	1160.4	707.7	432.4	343.3	320.5	309.6	302.0	296.9	292.5
1784.7	15°	1489.7	1165.4	624.4	370.7	319.2	300.7	289.3	281.0	274.0	268.9
1910.6	17.5°	1559.0	1172.4	546.2	333.8	299.5	281.0	269.6	259.4	253.7	248.0
2042.9	20°	1636.0	1171.2	472.4	307.7	279.8	261.3	249.2	239.7	234.0	227.6
2182.8	22.5°	1707.2	1164.8	407.6	285.5	259.4	241.6	228.3	218.7	213.0	207.9
2325.8	25°	1789.2	1159.7	353.5	265.1	240.3	222.5	207.9	199.0	192.7	188.2
2469.5	27.5°	1868.0	1152.1	314.1	246.7	221.9	204.7	190.7	180.6	174.8	171.7
2617.6	30°	1945.6	1150.2	299.5	228.9	205.4	188.2	174.2	164.7	160.2	159.0
2780.4	32.5°	2039.1	1155.3	305.8	222.5	190.1	172.9	159.6	152.6	148.1	148.1
2961.6	35°	2138.9	1154.0	315.4	228.3	179.9	157.7	147.5	143.1	138.6	138.6
3162.5	37.5°	2264.1	1155.9	323.0	237.8	176.1	145.0	139.2	133.5	131.0	131.0
3382.5	40°	2451.1	1218.9	319.2	246.1	174.8	136.1	124.6	122.7	120.8	120.8
3631.1	42.5°	2680.0	1355.6	324.3	246.7	174.2	129.7	114.4	118.3	113.8	113.2
3911.5	45°	2930.5	1505.0	356.7	233.3	173.6	126.5	109.4	113.8	106.8	106.8
4236.4	47.5°	3179.1	1653.1	389.8	214.3	171.7	125.9	104.9	102.4	100.5	101.1
4659.9	50°	3521.8	1773.9	402.5	188.2	167.2	124.6	96.6	97.3	96.0	97.3
5256.9	52.5°	3895.0	1799.4	387.2	159.0	154.5	120.8	90.9	93.5	92.8	94.1
5677.2	55°	4127.7	1772.0	319.8	132.2	134.8	105.5	85.2	90.3	90.3	90.3
6087.9	57.5°	4368.0	1655.7	227.0	107.5	111.9	86.5	80.1	87.1	86.5	85.8
6582.6	60°	4541.0	1467.5	149.4	88.4	89.0	71.2	74.4	82.0	81.4	78.2
7092.5	62.5°	4670.1	1259.5	96.0	75.0	68.0	64.2	68.0	74.4	71.8	64.9
7524.9	65°	4655.4	971.5	73.8	64.2	56.0	56.0	59.1	64.9	57.2	45.8
7607.5	67.5°	4383.9	657.4	61.0	54.0	47.1	46.4	49.0	54.0	49.0	38.8
7184.1	70°	3898.8	429.8	49.0	42.0	37.5	34.3	39.4	46.4	41.3	31.2
6115.9	72.5°	3164.4	262.0	36.9	30.5	27.3	22.3	31.2	38.1	33.1	22.9
4253.0	75°	2047.3	133.5	25.4	19.7	14.6	13.4	22.9	28.6	22.9	14.0
1887.1	77.5°	783.3	56.0	14.0	8.9	7.6	6.4	12.7	17.2	9.5	3.2
365.6	80°	150.7	23.5	7.0	4.5	3.8	2.5	1.9	1.3	0.0	0.0
64.9	82.5°	26.1	7.6	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
12.7	85°	8.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.5	87.5°	3.2	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°
1180.7
716.6
419.6
341.4
315.4
291.2
268.3
247.3
227.0
207.3
187.6
171.7
158.3
148.1
138.6
131.0
120.8
112.5
106.8
101.1
97.3
94.1
90.3
85.8
78.2
63.6
44.5
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