

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: P957405

Luminaire Tested: **GALN-SB9D-735-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957405  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

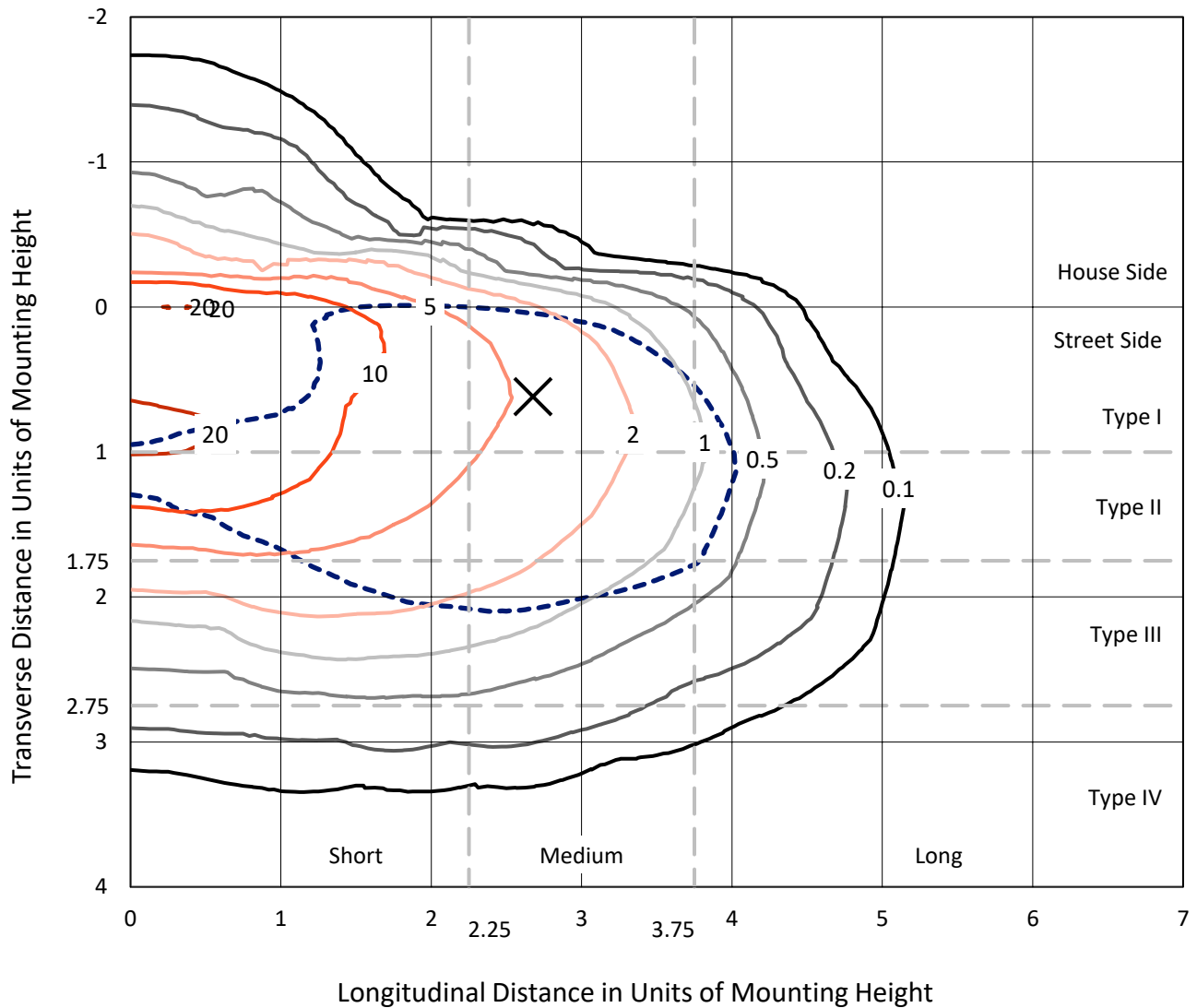
Lumens per Lamp: N/A  
Luminaire Lumens: 77166 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): 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

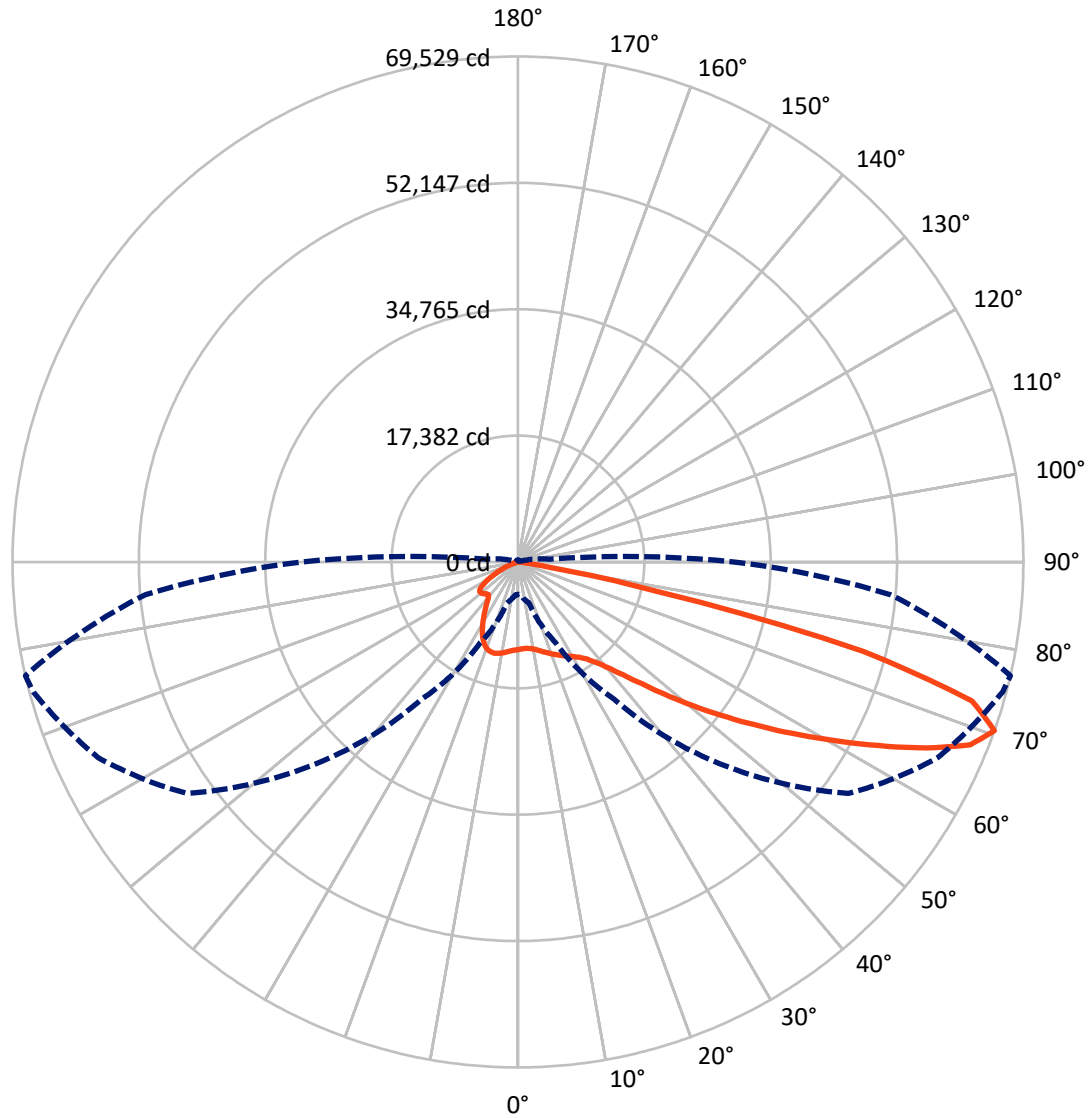
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8134.4	0.0	8134.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	69031.6	0.0	69031.6
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	77166.0	0.0	77166.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1037.4	1.3
10°-20°	2462.6	3.2
20°-30°	3808.9	4.9
30°-40°	6911.5	9.0
40°-50°	13046.2	16.9
50°-60°	18850.7	24.4
60°-70°	20066.1	26.0
70°-80°	10633.6	13.8
80°-90°	349.2	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°	77166.0	100.0
0°-180°	77166.0	100.0

**Coefficient of Utilization**



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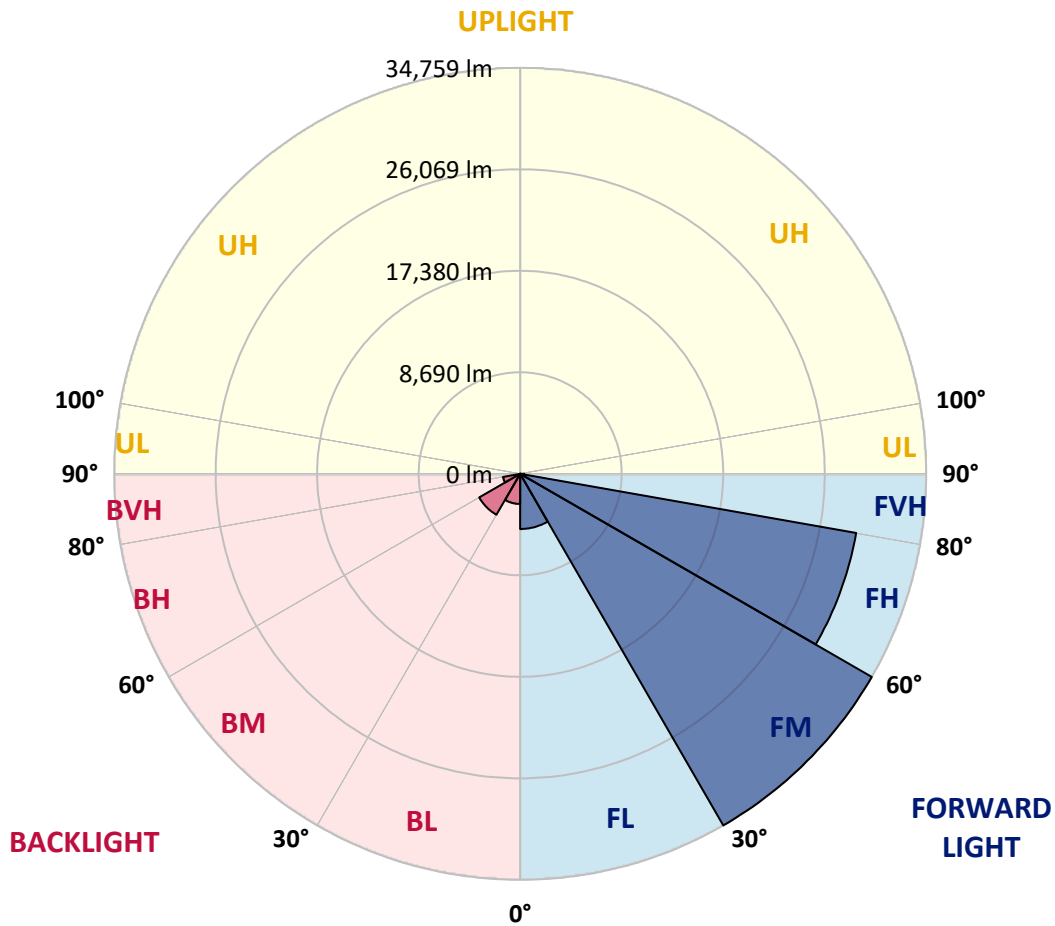
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4724.4	6.1			
FM (30°-60°)	34759.0	45.0			
FH (60°-80°)	29208.4	37.9			G5
FVH (80°-90°)	339.8	0.4			G3/500
BL (0°-30°)	2584.4	3.3	B4/5000		
BM (30°-60°)	4049.3	5.2	B3/5000		
BH (60°-80°)	1491.2	1.9	B3/2500		G3/2500
BVH (80°-90°)	9.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	12036.5	12036.5	12036.5	12036.5	12036.5	12036.5	12036.5	12036.5	12036.5	12036.5
2.5°	11300.7	11403.0	11388.4	11456.6	11481.0	11578.4	11675.9	11807.5	11953.7	11948.8
5°	10662.3	10764.6	10789.0	10881.6	10998.5	11149.6	11349.4	11612.5	11885.4	11929.3
7.5°	9907.0	10014.2	10077.5	10262.7	10477.1	10789.0	11115.5	11500.5	11953.7	12017.0
10°	9151.6	9249.1	9331.9	9595.1	9936.2	10399.1	10930.3	11485.8	12095.0	12187.6
12.5°	8683.8	8776.4	8869.0	9098.0	9522.0	10087.3	10808.5	11554.1	12328.9	12460.5
15°	8518.1	8601.0	8674.1	8878.7	9273.5	9916.7	10784.1	11695.4	12626.1	12801.6
17.5°	8542.5	8586.4	8635.1	8791.0	9176.0	9838.7	10828.0	11939.0	12977.0	13132.9
20°	8683.8	8708.2	8713.1	8820.3	9161.4	9829.0	10915.7	12172.9	13308.4	13517.9
22.5°	8864.1	8873.9	8864.1	8937.2	9254.0	9902.1	11032.6	12455.6	13678.7	13873.7
25°	9707.2	9522.0	9288.1	9146.8	9409.9	10043.4	11208.1	12835.7	14083.2	14273.2
27.5°	12324.0	11792.8	10954.7	10014.2	9731.5	10248.1	11451.7	13220.7	14492.5	14663.1
30°	16573.3	15876.5	14453.5	12333.8	10764.6	10676.9	11768.5	13605.6	14926.2	15111.4
32.5°	20832.4	20661.9	19019.6	16086.0	13089.1	11632.0	12294.8	14127.1	15501.3	15647.5
35°	25140.2	24794.2	23449.3	20549.8	16670.8	13576.4	13171.9	14809.3	16256.6	16422.3
37.5°	28439.3	28229.7	27396.4	25008.6	20920.1	16578.2	14672.8	15866.7	17353.0	17538.2
40°	31353.4	31255.9	30973.3	29399.3	25671.4	20505.9	17007.0	17504.1	18873.4	19092.7
42.5°	33643.7	33872.8	34033.6	33595.0	30568.8	24989.1	20145.3	19804.2	20993.2	21217.4
45°	35987.7	36065.6	36713.8	37347.3	35432.1	29677.0	23683.2	22499.0	23629.6	23907.3
47.5°	37493.5	37805.3	38945.6	40061.6	39520.7	34326.0	27484.2	25681.1	26685.0	27206.4
50°	37605.5	38195.2	39764.3	41708.7	42498.1	38750.7	31616.5	29306.7	30373.9	30948.9
52.5°	35739.2	36655.3	39087.0	41932.8	44106.2	42498.1	35890.2	32932.3	34301.6	35052.0
55°	27401.3	28600.1	36538.3	40714.6	44169.6	45339.1	40051.8	36708.9	38677.6	39525.5
57.5°	23873.2	24477.5	28726.8	38599.6	42995.2	46484.3	43813.8	40305.2	43438.6	44491.2
60°	19862.7	20657.0	24092.5	35139.8	41401.7	46596.4	47137.3	44944.4	48599.2	49783.4
62.5°	13498.4	14361.0	17777.0	29194.6	39223.4	46542.8	49861.3	49720.0	54334.8	55606.7
65°	8362.2	8903.1	11154.5	23839.1	36177.7	46601.2	52712.1	55519.0	60387.2	61678.5
67.5°	6607.9	6856.4	8030.8	18303.3	30929.4	45285.5	55558.0	60972.0	66083.8	67107.2
70°	4439.4	4590.4	5842.8	12270.4	23010.7	39213.7	55504.4	63710.6	69017.4	69529.1
72.5°	2339.1	2456.0	3416.0	5682.0	13898.0	27874.0	46786.4	60435.9	66098.4	65328.5
75°	1169.5	1364.5	2300.1	2884.9	5935.4	15545.1	29053.3	47649.0	52025.0	49042.7
77.5°	886.9	1072.1	1900.5	1900.5	2066.2	5233.7	12304.5	25988.1	23970.7	19960.1
80°	565.3	731.0	1661.7	1437.6	862.5	1330.4	3206.5	7280.4	5092.4	3874.1
82.5°	331.4	477.6	1384.0	950.3	482.4	492.2	906.4	1549.6	1320.6	1028.2
85°	131.6	311.9	950.3	375.2	190.1	121.8	272.9	331.4	272.9	204.7
87.5°	0.0	73.1	165.7	0.0	14.6	9.7	19.5	24.4	24.4	19.5
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°
12036.5	0°	12036.5	12036.5	12036.5	12036.5	12036.5	12036.5	12036.5	12036.5	12036.5	12036.5
12046.2	2.5°	12090.1	12099.9	12129.1	12134.0	12065.7	11978.0	11943.9	11929.3	11870.8	11865.9
12124.2	5°	12236.3	12280.2	12236.3	12109.6	11807.5	11383.5	11061.9	10798.7	10560.0	10486.9
12392.2	7.5°	12528.7	12572.5	12441.0	11943.9	11183.7	10340.7	9580.5	9044.4	8562.0	8381.7
12718.7	10°	12947.8	13006.2	12592.0	11588.2	10243.2	8888.5	7602.0	6695.6	5989.0	5701.5
13162.2	12.5°	13474.1	13498.4	12674.9	11047.3	9020.1	7085.5	5262.9	4293.2	3664.6	3430.6
13698.2	15°	14054.0	14019.8	12684.6	10311.4	7353.5	5009.5	3435.5	2821.5	2568.1	2490.1
14234.3	17.5°	14663.1	14521.8	12489.7	9249.1	5526.1	3425.8	2548.6	2402.4	2358.6	2339.1
14765.4	20°	15262.5	14945.7	12134.0	7860.3	3966.7	2558.4	2314.7	2270.9	2246.5	2236.7
15301.5	22.5°	15808.3	15267.4	11524.8	6247.3	2880.0	2261.1	2188.0	2149.0	2105.2	2085.7
15822.9	25°	16339.4	15452.5	10667.2	4741.5	2305.0	2114.9	2056.4	1983.3	1924.9	1900.5
16383.3	27.5°	16856.0	15569.5	9595.1	3508.6	2056.4	1978.5	1871.3	1768.9	1725.1	1715.3
16982.7	30°	17406.6	15608.5	8376.8	2616.8	1905.4	1807.9	1652.0	1535.0	1510.7	1515.5
17791.6	32.5°	18079.1	15666.9	7148.8	2144.2	1778.7	1603.2	1418.1	1296.2	1276.7	1296.2
18970.9	35°	18883.2	15783.9	5964.6	1973.6	1666.6	1393.7	1193.9	1091.6	1072.1	1086.7
20481.5	37.5°	19974.7	15973.9	4858.5	1939.5	1574.0	1218.3	1003.9	921.0	921.0	925.9
22333.3	40°	21426.9	16480.7	3869.2	1915.1	1525.3	1086.7	847.9	813.8	828.4	838.2
24691.9	42.5°	23195.9	17557.7	3201.6	1885.9	1471.7	1028.2	769.9	755.3	779.7	789.4
27518.3	45°	25179.2	18922.2	2967.7	1837.2	1422.9	1067.2	735.8	716.3	745.6	750.5
30685.8	47.5°	27230.8	20257.4	2938.5	1783.5	1374.2	1125.7	726.1	682.2	716.3	721.2
34067.7	50°	29306.7	21129.7	2967.7	1700.7	1296.2	1125.7	731.0	648.1	677.4	692.0
37576.3	52.5°	31397.2	21529.3	2948.2	1520.4	1159.8	1057.5	731.0	618.9	648.1	657.9
41367.6	55°	33424.4	21451.3	2651.0	1252.4	984.4	935.6	711.5	594.5	614.0	618.9
44949.3	57.5°	35027.7	20364.6	2100.3	974.6	799.2	779.7	648.1	565.3	579.9	575.0
48233.7	60°	35865.9	17976.8	1500.9	750.5	628.6	614.0	570.2	526.3	536.0	511.7
51016.3	62.5°	35875.6	14819.0	1003.9	594.5	501.9	487.3	487.3	472.7	462.9	414.2
53170.2	65°	35110.5	11315.3	667.6	472.7	404.5	380.1	409.3	404.5	370.4	302.1
53828.0	67.5°	33375.7	7416.8	506.8	370.4	311.9	297.3	326.5	341.1	316.8	253.4
51430.5	70°	29808.6	4317.5	419.1	287.5	233.9	219.3	263.1	292.4	263.1	204.7
43960.0	72.5°	24760.1	2329.3	341.1	214.4	160.8	146.2	209.5	238.8	209.5	151.1
28205.4	75°	16066.5	1247.5	263.1	141.3	82.8	92.6	155.9	175.4	146.2	97.5
8279.4	77.5°	5394.5	550.7	165.7	68.2	39.0	39.0	92.6	107.2	68.2	34.1
1505.8	80°	1203.7	229.0	68.2	29.2	14.6	14.6	19.5	19.5	9.7	0.0
462.9	82.5°	394.7	92.6	29.2	9.7	0.0	0.0	0.0	0.0	0.0	0.0
117.0	85°	151.1	34.1	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39.0	87.5°	58.5	4.9	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°
12036.5
11875.7
10443.0
8308.6
5579.7
3357.6
2490.1
2334.2
2227.0
2080.8
1890.8
1705.6
1515.5
1291.4
1081.8
921.0
838.2
789.4
755.3
726.1
696.9
657.9
618.9
575.0
506.8
399.6
292.4
248.5
194.9
146.2
87.7
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