

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: P951773

Luminaire Tested: **GALN-SB5D-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951773
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-SB5D-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 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: 37846 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

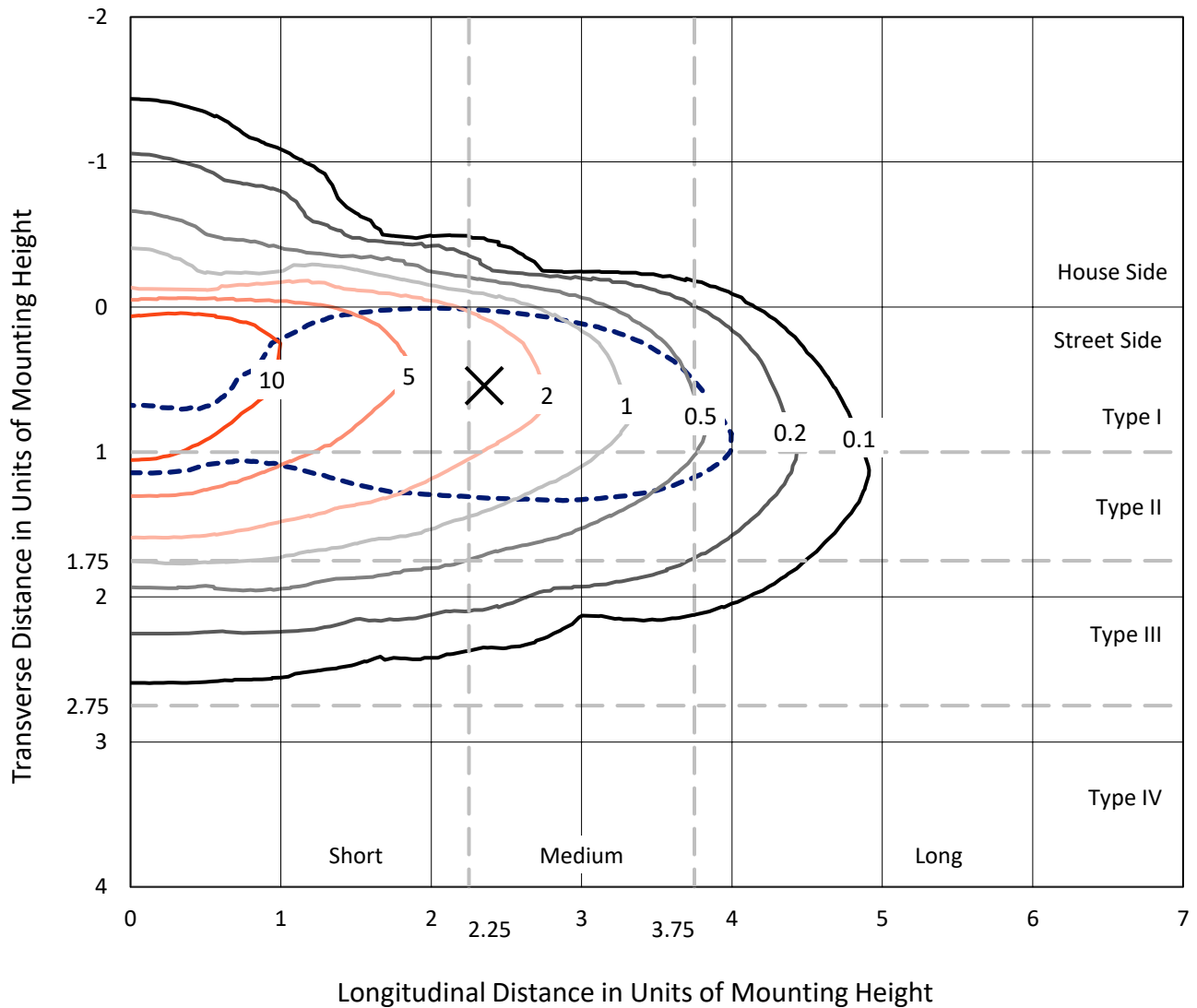
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

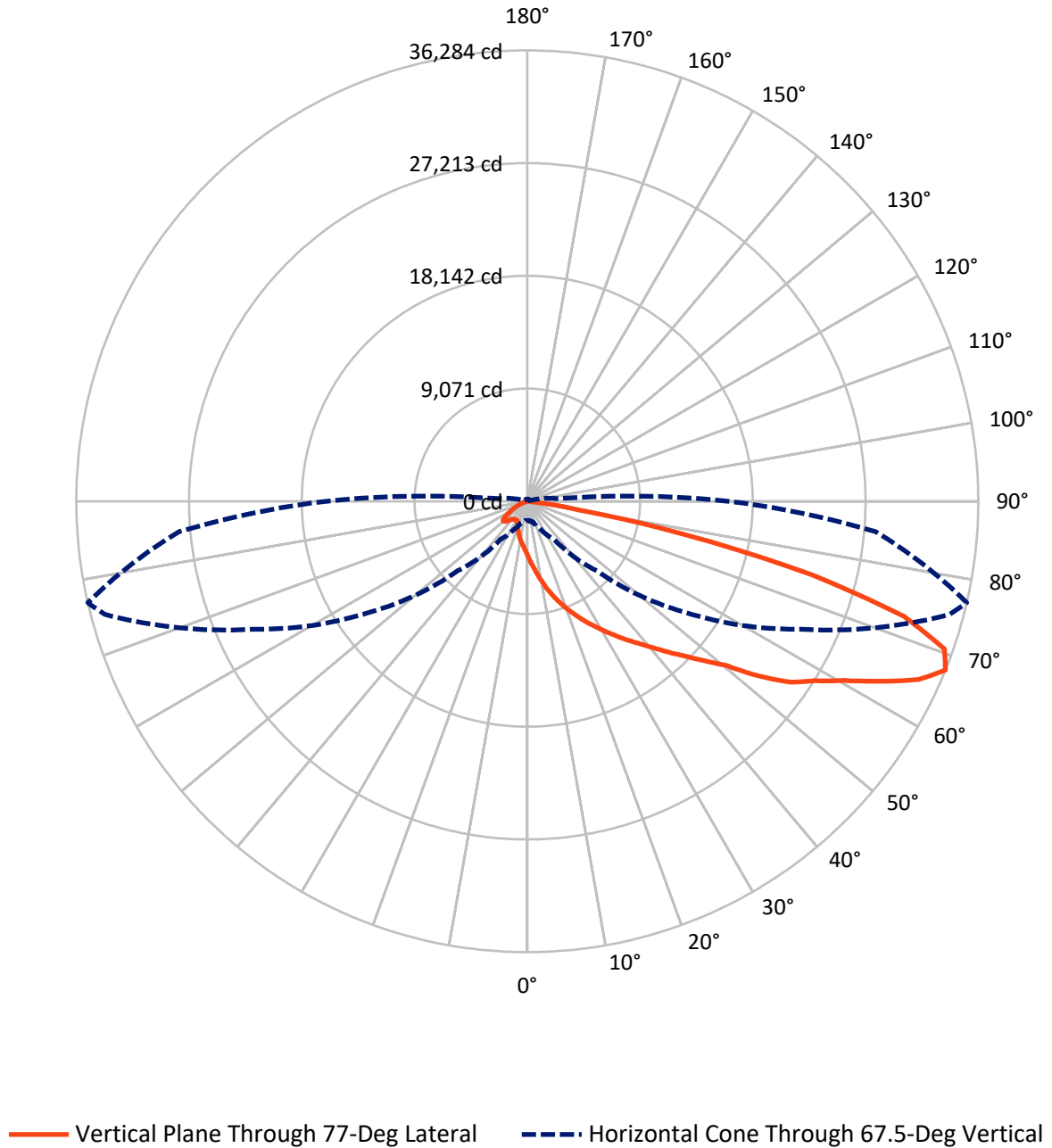
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 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	2784.4	0.0	2784.4
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	35061.7	0.0	35061.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	37846.0	0.0	37846.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.4	1.2
10°-20°	1559.9	4.1
20°-30°	3010.1	8.0
30°-40°	5225.7	13.8
40°-50°	7587.5	20.0
50°-60°	8713.3	23.0
60°-70°	7564.8	20.0
70°-80°	3563.1	9.4
80°-90°	176.2	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°	37846.0	100.0
0°-180°	37846.0	100.0

Coefficient of Utilization



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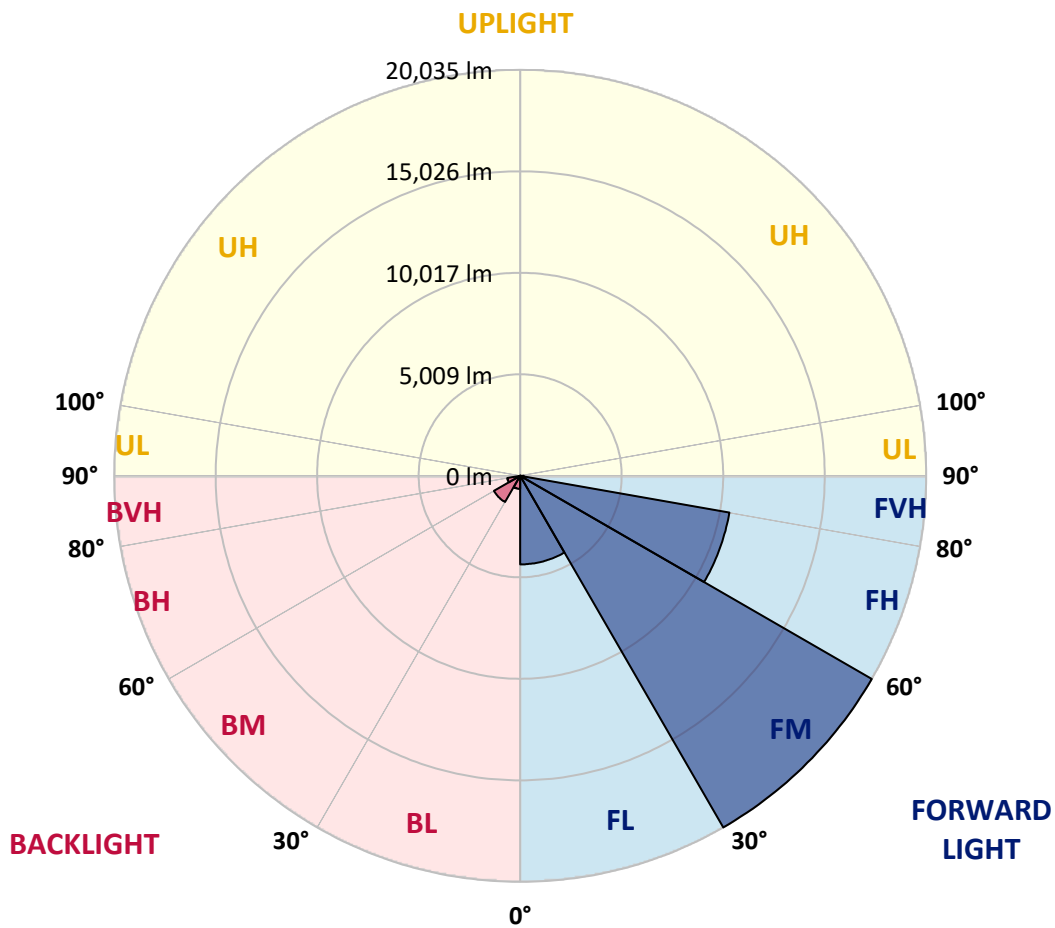
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4370.8	11.5			
FM (30°-60°)	20034.6	52.9			
FH (60°-80°)	10483.2	27.7			G4/12000
FVH (80°-90°)	173.0	0.5			G2/225
BL (0°-30°)	644.6	1.7	B2/1000		
BM (30°-60°)	1491.9	3.9	B2/2500		
BH (60°-80°)	644.6	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4364.2	4364.2	4364.2	4364.2	4364.2	4364.2	4364.2	4364.2	4364.2	4364.2
2.5°	6042.2	6079.8	6025.7	5922.3	5767.2	5666.2	5419.4	5186.7	4928.2	4846.0
5°	7365.3	7398.2	7337.1	7224.3	7017.5	6820.1	6495.8	6009.3	5504.0	5341.9
7.5°	8345.3	8364.1	8340.6	8237.2	8039.8	7816.5	7454.6	6878.8	6129.2	5950.5
10°	9050.4	9111.5	9104.4	9064.5	8932.9	8751.9	8366.5	7710.8	6829.5	6599.2
12.5°	9518.0	9586.2	9626.2	9715.5	9708.4	9593.2	9254.8	8561.5	7527.5	7257.2
15°	9654.4	9727.2	9880.0	10086.8	10270.1	10328.8	10091.5	9395.8	8296.0	7950.5
17.5°	9576.8	9689.6	9872.9	10199.6	10601.5	10867.0	10841.2	10201.9	8994.0	8599.1
20°	9748.4	9856.5	9999.8	10274.8	10742.5	11224.2	11417.0	10972.8	9687.3	9273.6
22.5°	10697.8	10679.0	10693.1	10737.8	11017.4	11494.5	11891.7	11673.1	10373.5	9950.5
25°	12201.9	12117.3	11973.9	11731.9	11661.4	11891.7	12305.3	12293.6	11097.3	10643.8
27.5°	13926.9	13912.8	13576.7	12993.9	12664.9	12575.6	12773.0	12897.5	11814.1	11330.0
30°	15579.0	15616.6	15163.1	14514.4	13910.4	13560.3	13381.7	13471.0	12542.7	12070.3
32.5°	17017.3	17057.3	16563.7	15804.7	15057.3	14634.3	14258.3	14037.4	13337.0	12822.3
35°	18232.3	18272.3	17705.9	16866.9	16070.2	15687.1	15261.8	14657.8	14136.1	13656.6
37.5°	19318.1	19306.4	18547.3	17701.2	16918.6	16615.5	16392.2	15421.6	14958.6	14495.6
40°	19959.7	20009.0	19360.4	18427.4	17668.3	17447.4	17433.3	16368.7	15908.1	15459.2
42.5°	20147.7	20234.7	19764.6	18998.5	18309.9	18070.2	18439.2	17393.3	17012.6	16575.5
45°	19809.3	19893.9	19680.0	19148.9	18747.0	18591.9	19304.0	18455.6	18192.4	17760.0
47.5°	18822.2	18928.0	18979.7	18866.9	18862.2	19019.6	20079.6	19574.3	19593.1	19151.2
50°	16911.6	17090.2	17564.9	17964.4	18582.5	19358.1	20833.9	20786.9	21172.4	20791.6
52.5°	13438.1	13691.9	15327.6	16420.4	17809.3	19294.6	21663.5	22732.9	23943.2	23386.2
55°	10798.9	10798.9	12129.0	14173.7	16300.5	18876.3	22025.5	23997.2	25830.3	25698.7
57.5°	8803.6	8909.4	9757.8	11565.0	14117.3	17879.8	22248.7	24791.6	27350.9	27254.5
60°	5433.5	5661.5	7264.3	9048.0	11633.2	16105.5	22107.7	25595.3	29195.7	29273.3
62.5°	3059.9	3144.5	3858.9	6509.9	9045.7	13720.1	21029.0	26044.2	31555.3	31884.3
65°	2112.8	2155.1	2430.0	4051.6	6270.2	10923.4	18920.9	25764.5	33919.5	34584.6
67.5°	1534.6	1555.8	1727.3	2474.7	3720.3	7920.0	15616.6	24354.4	35172.1	36283.7
70°	1179.8	1193.9	1318.4	1626.3	2197.4	4888.3	11341.8	21550.7	34265.0	35592.8
72.5°	958.9	973.0	1069.3	1203.3	1457.1	2890.7	6874.1	17501.5	30260.3	31693.9
75°	808.4	827.2	914.2	1001.2	1142.2	1856.6	3224.4	12187.8	22756.4	23696.4
77.5°	448.9	413.6	742.6	829.6	963.6	1175.1	1508.8	7172.6	12744.8	13005.6
80°	279.7	289.1	589.9	667.4	740.3	592.2	690.9	2761.4	4418.3	4197.3
82.5°	16.5	37.6	453.6	481.8	507.6	253.8	260.9	937.7	1064.6	977.7
85°	0.0	0.0	206.8	166.9	176.3	72.9	75.2	218.6	143.4	155.1
87.5°	0.0	0.0	0.0	4.7	0.0	7.1	14.1	18.8	7.1	9.4
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°
4364.2	0°	4364.2	4364.2	4364.2	4364.2	4364.2	4364.2	4364.2	4364.2	4364.2	4364.2
4587.5	2.5°	4423.0	4258.4	3924.7	3598.1	3332.5	3085.7	2909.5	2742.6	2658.0	2653.3
4883.6	5°	4556.9	4211.4	3544.0	2954.1	2479.4	2098.7	1851.9	1675.6	1586.3	1555.8
5247.9	7.5°	4744.9	4225.5	3210.3	2390.1	1830.8	1504.1	1363.1	1306.7	1287.9	1266.7
5659.1	10°	4982.3	4258.4	2911.8	1924.8	1443.0	1278.5	1222.1	1198.6	1184.5	1170.4
6122.1	12.5°	5247.9	4289.0	2615.7	1598.1	1269.1	1184.5	1144.5	1116.3	1097.5	1081.1
6596.8	15°	5506.4	4307.8	2307.8	1370.1	1179.8	1111.6	1069.3	1038.8	1012.9	994.1
7062.2	17.5°	5762.5	4333.6	2018.8	1233.8	1106.9	1038.8	996.5	958.9	937.7	916.6
7551.0	20°	6046.9	4328.9	1746.2	1137.5	1034.1	965.9	921.3	886.0	864.8	841.3
8068.0	22.5°	6310.1	4305.4	1506.4	1055.2	958.9	893.1	843.7	808.4	787.3	768.5
8596.8	25°	6613.3	4286.6	1306.7	980.0	888.4	822.5	768.5	735.6	712.1	695.6
9127.9	27.5°	6904.7	4258.4	1161.0	911.9	820.2	756.7	705.0	667.4	646.3	634.5
9675.5	30°	7191.4	4251.4	1106.9	846.0	759.1	695.6	643.9	608.7	592.2	587.5
10277.1	32.5°	7536.9	4270.2	1130.4	822.5	702.7	639.2	589.9	564.0	547.6	547.6
10946.9	35°	7905.9	4265.5	1165.7	843.7	665.1	582.8	545.2	528.8	512.3	512.3
11689.6	37.5°	8368.8	4272.5	1193.9	879.0	651.0	535.8	514.7	493.5	484.1	484.1
12502.7	40°	9059.8	4505.2	1179.8	909.5	646.3	502.9	460.6	453.6	446.5	446.5
13421.6	42.5°	9905.8	5010.5	1198.6	911.9	643.9	479.4	423.0	437.1	420.7	418.3
14458.0	45°	10831.8	5562.8	1318.4	862.5	641.6	467.7	404.2	420.7	394.8	394.8
15658.9	47.5°	11750.7	6110.4	1440.6	792.0	634.5	465.3	387.8	378.4	371.3	373.7
17224.1	50°	13017.4	6556.9	1487.6	695.6	618.1	460.6	357.2	359.6	354.9	359.6
19430.9	52.5°	14396.9	6650.9	1431.2	587.5	571.1	446.5	336.1	345.5	343.1	347.8
20984.4	55°	15257.1	6549.8	1182.1	488.8	498.2	390.1	314.9	333.7	333.7	333.7
22502.5	57.5°	16145.4	6119.8	839.0	397.2	413.6	319.6	296.1	322.0	319.6	317.3
24330.9	60°	16784.7	5424.1	552.3	326.7	329.0	263.2	275.0	303.2	300.8	289.1
26215.8	62.5°	17261.7	4655.6	354.9	277.3	251.5	237.4	251.5	275.0	265.6	239.7
27813.8	65°	17207.7	3591.0	272.6	237.4	206.8	206.8	218.6	239.7	211.5	169.2
28119.4	67.5°	16204.2	2430.0	225.6	199.8	173.9	171.6	181.0	199.8	181.0	143.4
26554.2	70°	14411.0	1588.7	181.0	155.1	138.7	126.9	145.7	171.6	152.8	115.2
22605.9	72.5°	11696.6	968.3	136.3	112.8	101.1	82.3	115.2	141.0	122.2	84.6
15720.1	75°	7567.4	493.5	94.0	72.9	54.1	49.4	84.6	105.8	84.6	51.7
6975.2	77.5°	2895.4	206.8	51.7	32.9	28.2	23.5	47.0	63.5	35.3	11.8
1351.3	80°	557.0	87.0	25.9	16.5	14.1	9.4	7.1	4.7	0.0	0.0
239.7	82.5°	96.4	28.2	9.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0
47.0	85°	32.9	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.5	87.5°	11.8	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°
4364.2
2648.6
1551.1
1262.0
1165.7
1076.4
991.8
914.2
839.0
766.1
693.3
634.5
585.2
547.6
512.3
484.1
446.5
416.0
394.8
373.7
359.6
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