

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: P955889

Luminaire Tested: **GALN-SB8C-950-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955889
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-SB8C-950-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 615mA 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: 35668 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

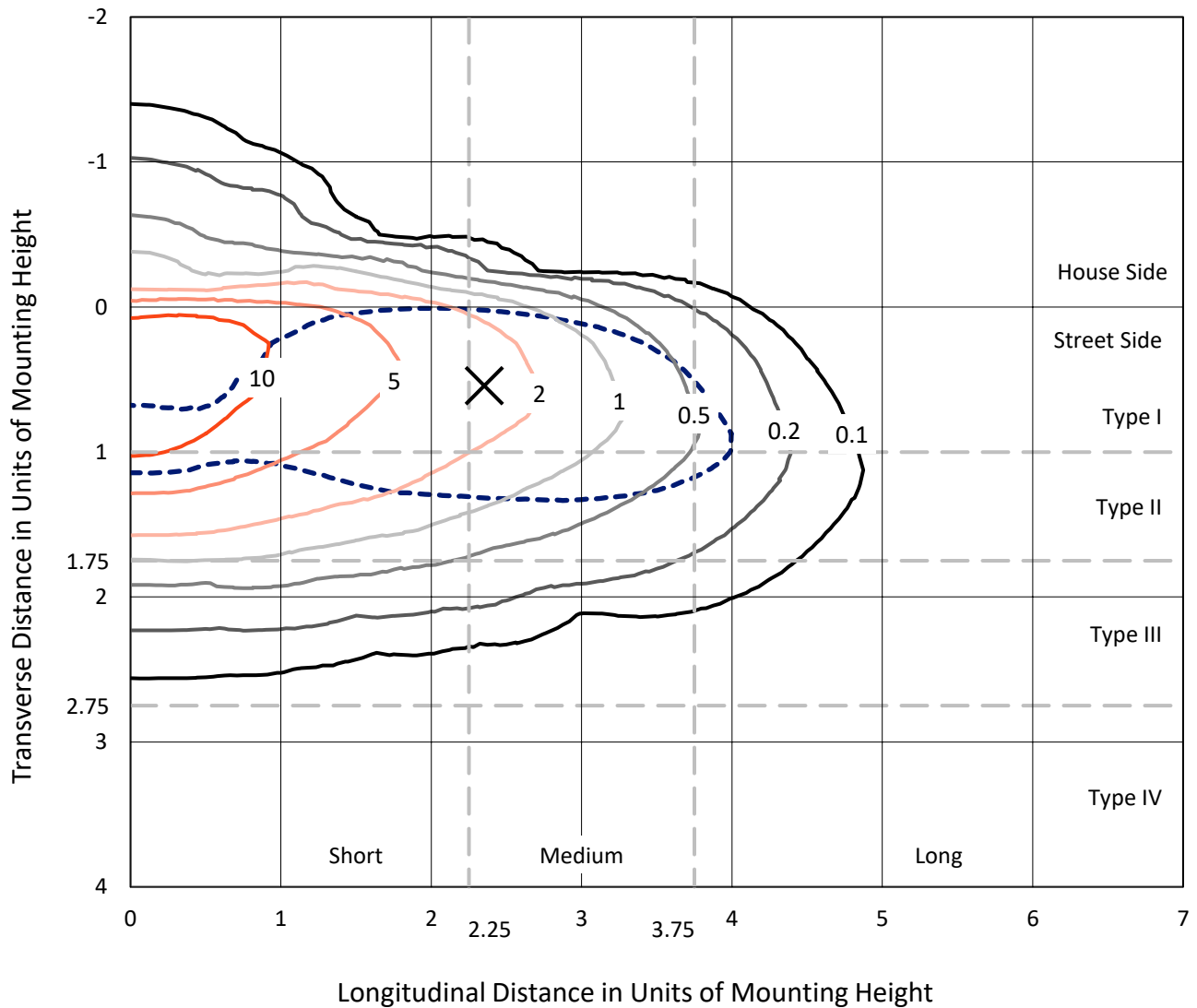
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

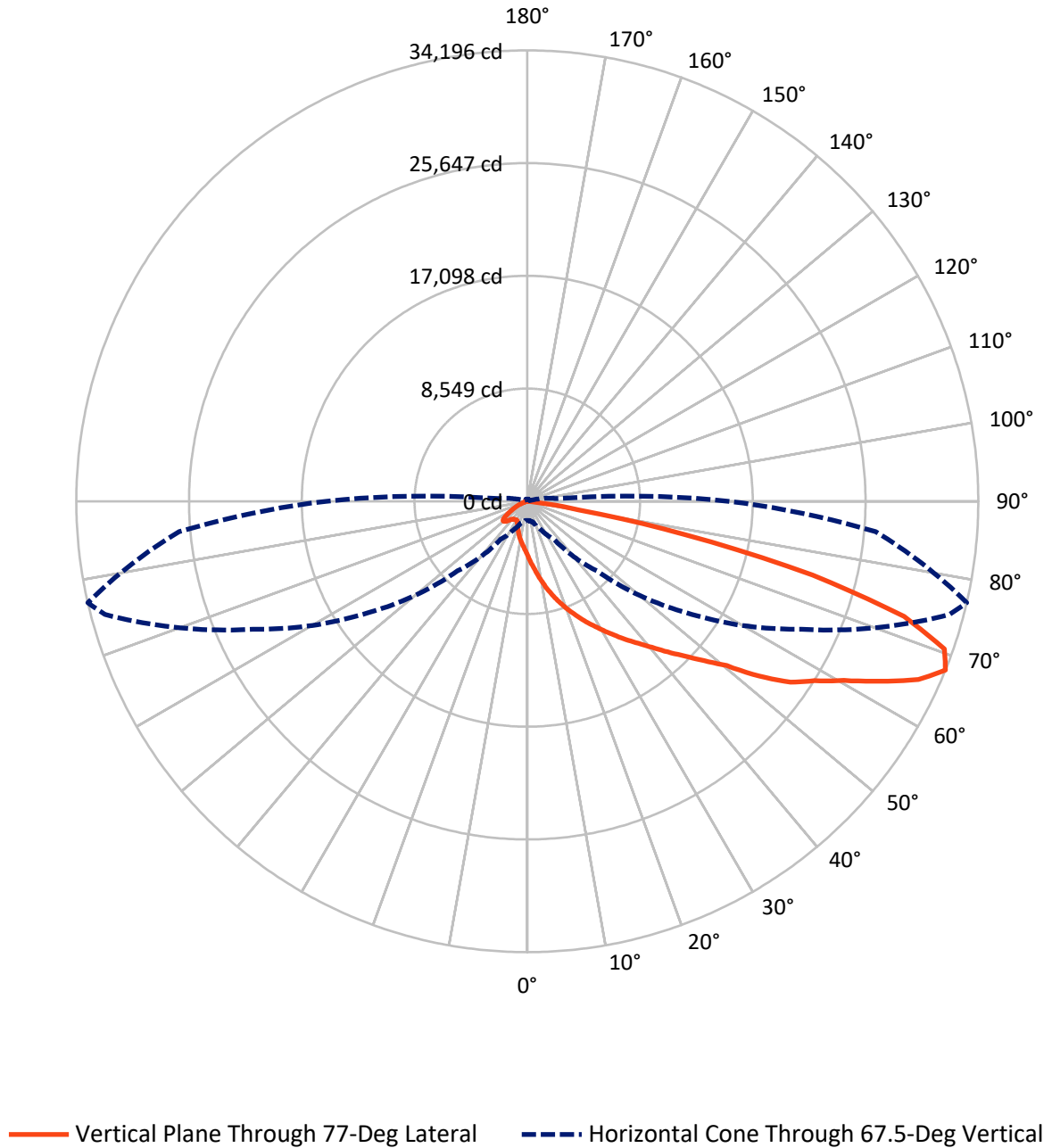
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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	2624.1	0.0	2624.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	33043.9	0.0	33043.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	35668.0	0.0	35668.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.8	1.2
10°-20°	1470.1	4.1
20°-30°	2836.9	8.0
30°-40°	4925.0	13.8
40°-50°	7150.9	20.0
50°-60°	8211.8	23.0
60°-70°	7129.4	20.0
70°-80°	3358.0	9.4
80°-90°	166.1	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°	35668.0	100.0
0°-180°	35668.0	100.0

Coefficient of Utilization



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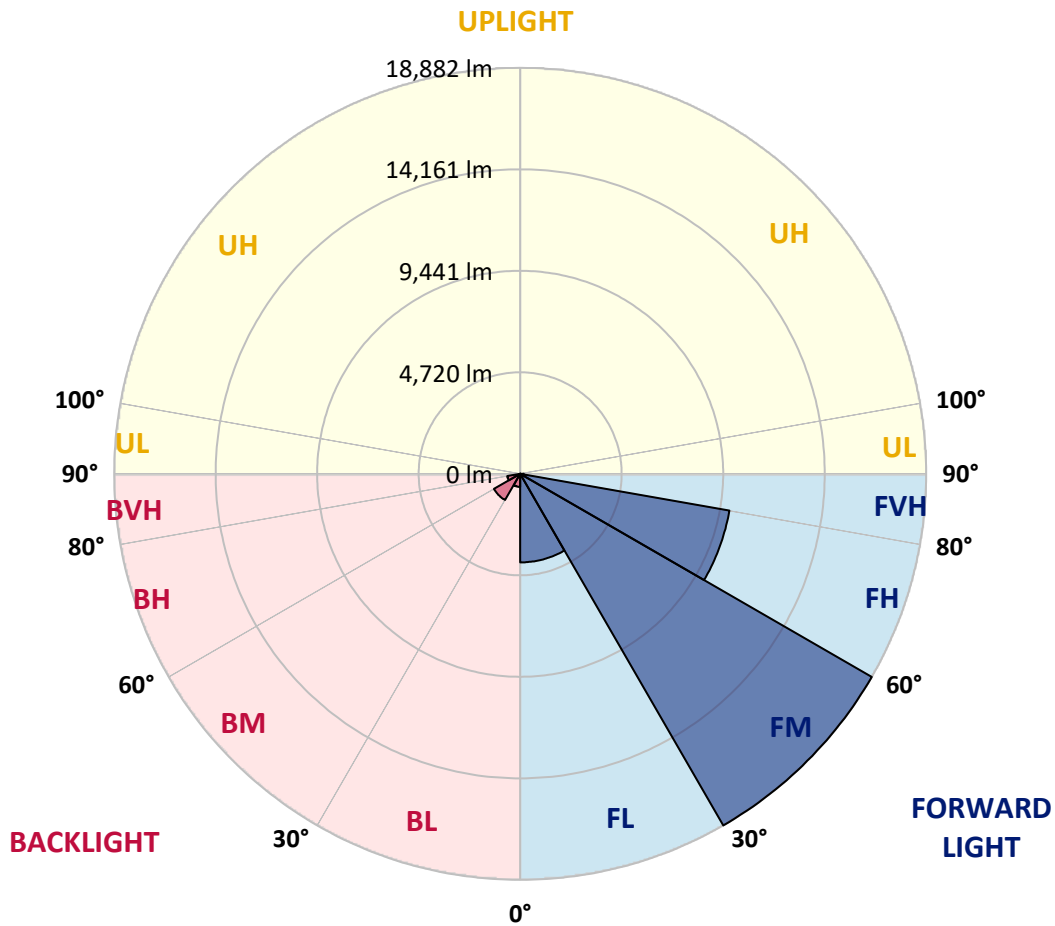
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4119.3	11.5			
FM (30°-60°)	18881.7	52.9			
FH (60°-80°)	9879.9	27.7			G4/12000
FVH (80°-90°)	163.0	0.5			G2/225
BL (0°-30°)	607.5	1.7	B2/1000		
BM (30°-60°)	1406.0	3.9	B2/2500		
BH (60°-80°)	607.5	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4113.0	4113.0	4113.0	4113.0	4113.0	4113.0	4113.0	4113.0	4113.0	4113.0
2.5°	5694.5	5729.9	5679.0	5581.5	5435.3	5340.1	5107.5	4888.3	4644.6	4567.1
5°	6941.5	6972.5	6914.9	6808.6	6613.7	6427.6	6121.9	5663.5	5187.3	5034.4
7.5°	7865.1	7882.8	7860.6	7763.2	7577.1	7366.7	7025.6	6483.0	5776.4	5608.1
10°	8529.5	8587.1	8580.5	8542.8	8418.8	8248.2	7885.0	7267.0	6436.5	6219.4
12.5°	8970.3	9034.5	9072.2	9156.3	9149.7	9041.2	8722.2	8068.8	7094.3	6839.6
15°	9098.8	9167.4	9311.4	9506.3	9679.1	9734.4	9510.7	8855.1	7818.6	7493.0
17.5°	9025.7	9132.0	9304.7	9612.6	9991.4	10241.6	10217.3	9614.8	8476.4	8104.3
20°	9187.4	9289.2	9424.3	9683.5	10124.2	10578.3	10759.9	10341.3	9129.8	8739.9
22.5°	10082.2	10064.4	10077.7	10119.8	10383.4	10833.0	11207.3	11001.3	9776.5	9377.8
25°	11499.7	11420.0	11284.8	11056.7	10990.3	11207.3	11597.1	11586.1	10458.7	10031.2
27.5°	13125.4	13112.1	12795.4	12246.1	11936.0	11851.9	12037.9	12155.3	11134.2	10678.0
30°	14682.5	14717.9	14290.4	13679.1	13109.9	12779.9	12611.6	12695.7	11820.9	11375.7
32.5°	16038.0	16075.6	15610.5	14895.1	14190.8	13792.1	13437.7	13229.5	12569.5	12084.4
35°	17183.1	17220.7	16687.0	15896.2	15145.4	14784.4	14383.5	13814.2	13322.5	12870.7
37.5°	18206.4	18195.3	17479.9	16682.5	15945.0	15659.2	15448.8	14534.1	14097.8	13661.4
40°	18811.0	18857.5	18246.2	17366.9	16651.5	16443.3	16430.0	15426.7	14992.6	14569.5
42.5°	18988.2	19070.2	18627.2	17905.1	17256.2	17030.3	17378.0	16392.4	16033.6	15621.6
45°	18669.3	18749.0	18547.5	18046.9	17668.2	17522.0	18193.1	17393.5	17145.4	16737.9
47.5°	17739.0	17838.7	17887.4	17781.1	17776.7	17925.1	18924.0	18447.8	18465.5	18049.1
50°	15938.3	16106.7	16554.1	16930.6	17513.1	18244.0	19635.0	19590.7	19953.9	19595.1
52.5°	12664.7	12903.9	14445.5	15475.4	16784.4	18184.2	20416.8	21424.6	22565.3	22040.3
55°	10177.4	10177.4	11431.0	13358.0	15362.5	17790.0	20757.9	22616.2	24343.8	24219.8
57.5°	8297.0	8396.6	9196.2	10899.5	13304.8	16850.9	20968.3	23364.8	25776.9	25686.0
60°	5120.8	5335.7	6846.2	8527.3	10963.7	15178.6	20835.4	24122.3	27515.5	27588.6
62.5°	2883.8	2963.5	3636.8	6135.2	8525.1	12930.5	19818.8	24545.4	29739.3	30049.4
65°	1991.2	2031.1	2290.2	3818.5	5909.3	10294.8	17832.1	24281.8	31967.5	32594.3
67.5°	1446.3	1466.3	1627.9	2332.3	3506.2	7464.2	14717.9	22952.9	33148.0	34195.6
70°	1111.9	1125.2	1242.6	1532.7	2070.9	4607.0	10689.0	20310.5	32293.0	33544.5
72.5°	903.7	917.0	1007.8	1134.0	1373.2	2724.3	6478.5	16494.3	28518.9	29870.0
75°	761.9	779.6	861.6	943.5	1076.4	1749.8	3038.8	11486.4	21446.7	22332.7
77.5°	423.0	389.8	699.9	781.9	908.1	1107.4	1422.0	6759.8	12011.3	12257.2
80°	263.6	272.4	555.9	629.0	697.7	558.2	651.2	2602.5	4164.0	3955.8
82.5°	15.5	35.4	427.5	454.1	478.4	239.2	245.9	883.7	1003.3	921.4
85°	0.0	0.0	194.9	157.3	166.1	68.7	70.9	206.0	135.1	146.2
87.5°	0.0	0.0	0.0	4.4	0.0	6.6	13.3	17.7	6.6	8.9
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°
4113.0	0°	4113.0	4113.0	4113.0	4113.0	4113.0	4113.0	4113.0	4113.0	4113.0	4113.0
4323.5	2.5°	4168.4	4013.4	3698.9	3391.0	3140.7	2908.1	2742.0	2584.8	2505.0	2500.6
4602.5	5°	4294.7	3969.1	3340.0	2784.1	2336.7	1977.9	1745.3	1579.2	1495.0	1466.3
4945.8	7.5°	4471.9	3982.4	3025.5	2252.5	1725.4	1417.5	1284.6	1231.5	1213.8	1193.8
5333.4	10°	4695.6	4013.4	2744.2	1814.0	1359.9	1204.9	1151.7	1129.6	1116.3	1103.0
5769.8	12.5°	4945.8	4042.2	2465.2	1506.1	1196.0	1116.3	1078.6	1052.1	1034.4	1018.8
6217.2	15°	5189.5	4059.9	2175.0	1291.3	1111.9	1047.6	1007.8	979.0	954.6	936.9
6655.7	17.5°	5430.9	4084.3	1902.6	1162.8	1043.2	979.0	939.1	903.7	883.7	863.8
7116.4	20°	5698.9	4079.8	1645.7	1072.0	974.6	910.3	868.2	835.0	815.1	792.9
7603.7	22.5°	5947.0	4057.7	1419.7	994.5	903.7	841.7	795.1	761.9	742.0	724.3
8102.1	25°	6232.7	4040.0	1231.5	923.6	837.2	775.2	724.3	693.3	671.1	655.6
8602.6	27.5°	6507.3	4013.4	1094.2	859.4	773.0	713.2	664.5	629.0	609.1	598.0
9118.7	30°	6777.6	4006.7	1043.2	797.4	715.4	655.6	606.9	573.7	558.2	553.7
9685.7	32.5°	7103.1	4024.4	1065.4	775.2	662.3	602.4	555.9	531.6	516.1	516.1
10316.9	35°	7450.9	4020.0	1098.6	795.1	626.8	549.3	513.9	498.3	482.8	482.8
11016.8	37.5°	7887.2	4026.7	1125.2	828.4	613.5	505.0	485.1	465.1	456.3	456.3
11783.2	40°	8538.4	4245.9	1111.9	857.2	609.1	474.0	434.1	427.5	420.8	420.8
12649.2	42.5°	9335.7	4722.1	1129.6	859.4	606.9	451.8	398.7	412.0	396.5	394.2
13626.0	45°	10208.4	5242.6	1242.6	812.9	604.7	440.8	381.0	396.5	372.1	372.1
14757.8	47.5°	11074.4	5758.7	1357.7	746.4	598.0	438.5	365.5	356.6	350.0	352.2
16232.9	50°	12268.3	6179.5	1402.0	655.6	582.5	434.1	336.7	338.9	334.4	338.9
18312.7	52.5°	13568.4	6268.1	1348.9	553.7	538.2	420.8	316.7	325.6	323.4	327.8
19776.7	55°	14379.0	6172.9	1114.1	460.7	469.6	367.7	296.8	314.5	314.5	314.5
21207.5	57.5°	15216.3	5767.6	790.7	374.3	389.8	301.2	279.1	303.4	301.2	299.0
22930.7	60°	15818.7	5112.0	520.5	307.9	310.1	248.1	259.1	285.7	283.5	272.4
24707.1	62.5°	16268.3	4387.7	334.4	261.4	237.0	223.7	237.0	259.1	250.3	225.9
26213.2	65°	16217.4	3384.3	256.9	223.7	194.9	194.9	206.0	225.9	199.3	159.5
26501.1	67.5°	15271.6	2290.2	212.6	188.3	163.9	161.7	170.5	188.3	170.5	135.1
25026.0	70°	13581.7	1497.3	170.5	146.2	130.7	119.6	137.3	161.7	144.0	108.5
21305.0	72.5°	11023.5	912.5	128.5	106.3	95.2	77.5	108.5	132.9	115.2	79.7
14815.4	75°	7131.9	465.1	88.6	68.7	50.9	46.5	79.7	99.7	79.7	48.7
6573.8	77.5°	2728.7	194.9	48.7	31.0	26.6	22.1	44.3	59.8	33.2	11.1
1273.6	80°	524.9	82.0	24.4	15.5	13.3	8.9	6.6	4.4	0.0	0.0
225.9	82.5°	90.8	26.6	8.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0
44.3	85°	31.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.5	87.5°	11.1	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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<u>180°</u>
4113.0
2496.2
1461.8
1189.4
1098.6
1014.4
934.7
861.6
790.7
722.1
653.4
598.0
551.5
516.1
482.8
456.3
420.8
392.0
372.1
352.2
338.9
327.8
314.5
299.0
272.4
221.5
155.0
130.7
104.1
75.3
42.1
8.9
0.0
0.0
0.0
0.0
0.0

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