

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: P957153

Luminaire Tested: **GALN-SB9C-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957153
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-SB9C-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 615mA 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: 51029 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

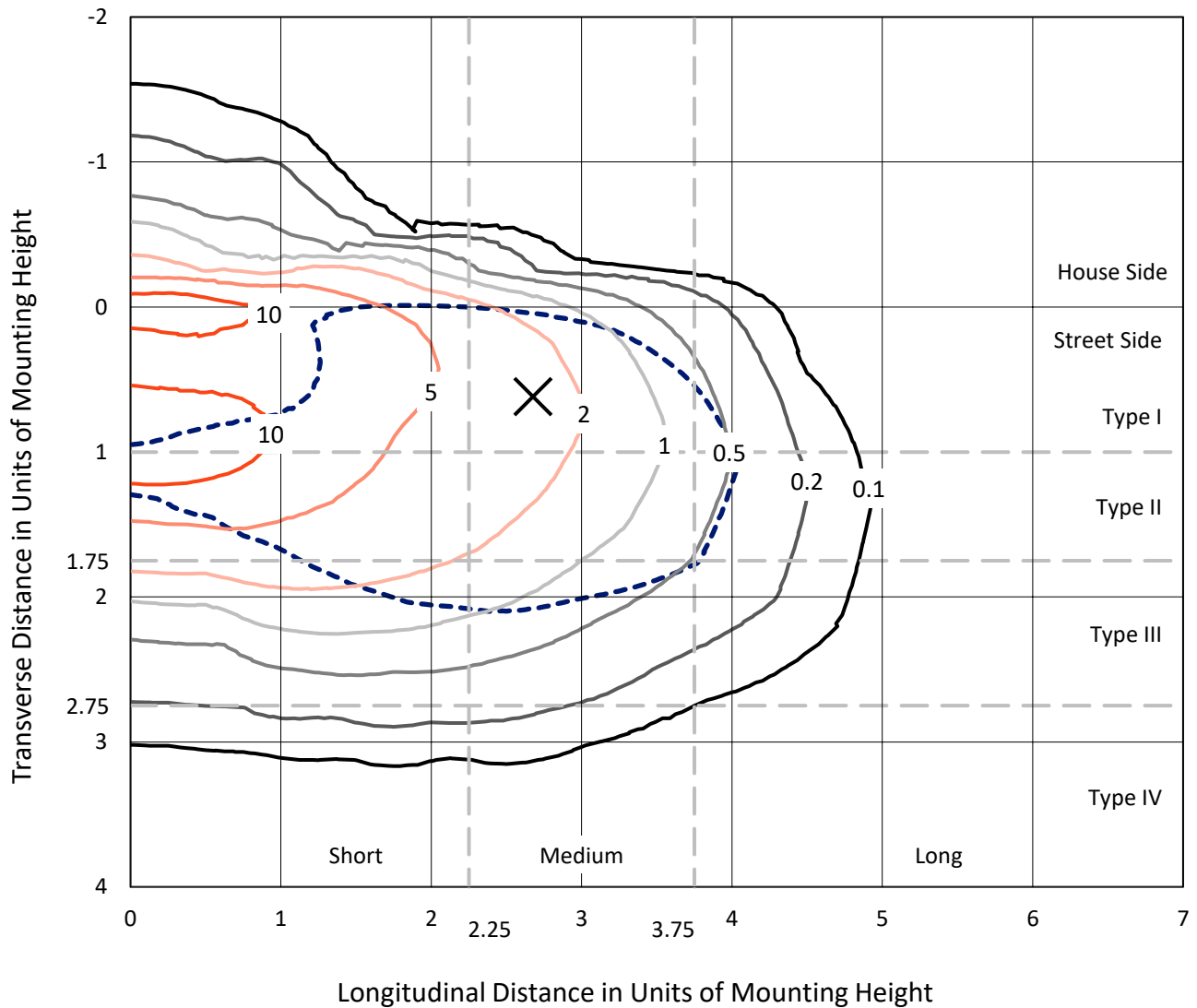
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

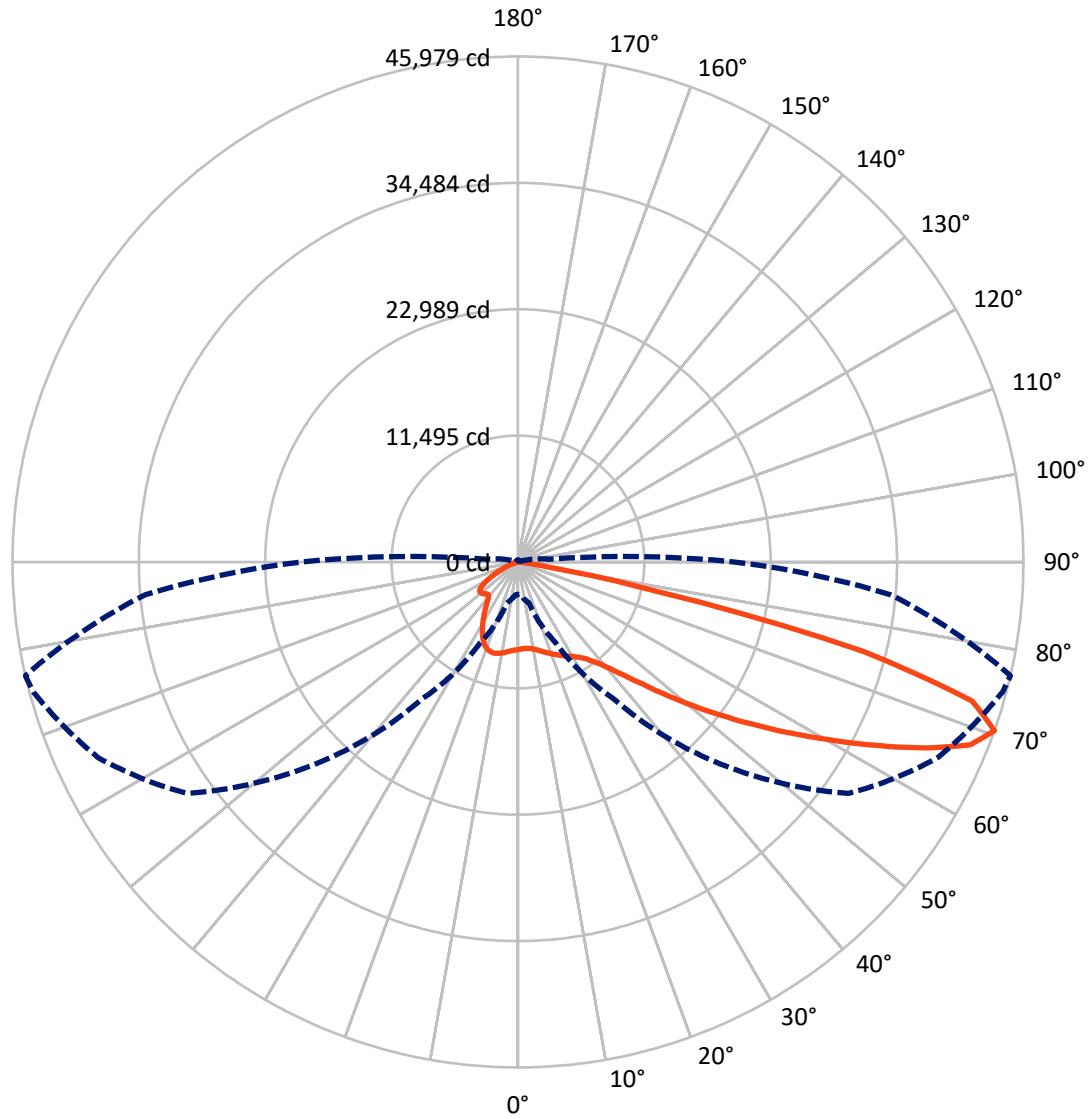
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 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
House Side	Lumens	5379.2	0.0	5379.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	45649.8	0.0	45649.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	51029.0	0.0	51029.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	686.0	1.3
10°-20°	1628.5	3.2
20°-30°	2518.8	4.9
30°-40°	4570.5	9.0
40°-50°	8627.3	16.9
50°-60°	12465.7	24.4
60°-70°	13269.5	26.0
70°-80°	7031.9	13.8
80°-90°	230.9	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°	51029.0	100.0
0°-180°	51029.0	100.0

Coefficient of Utilization



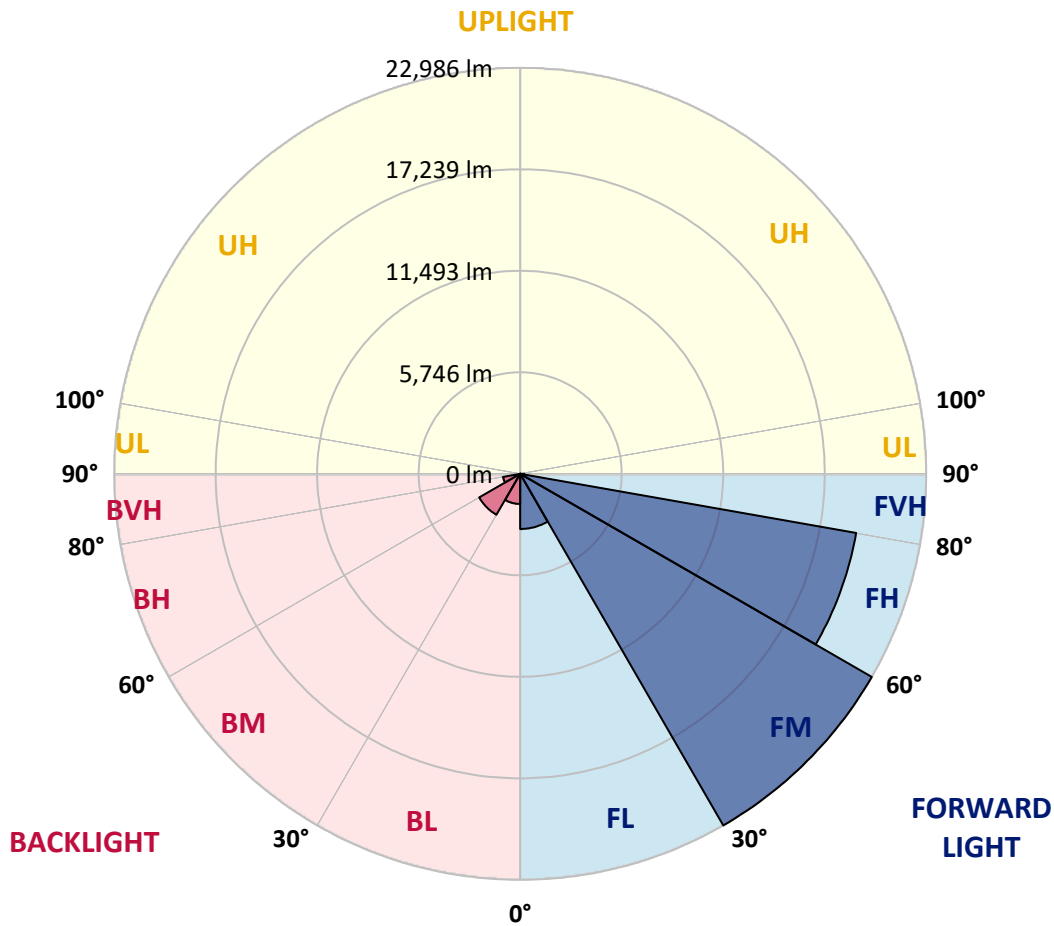
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3124.2	6.1			
FM (30°-60°)	22985.8	45.0			
FH (60°-80°)	19315.2	37.9			G5
FVH (80°-90°)	224.7	0.4			G2/225
BL (0°-30°)	1709.1	3.3	B3/2500		
BM (30°-60°)	2677.8	5.2	B3/5000		
BH (60°-80°)	986.1	1.9	B2/1000		G2/1000
BVH (80°-90°)	6.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7959.6	7959.6	7959.6	7959.6	7959.6	7959.6	7959.6	7959.6	7959.6	7959.6
2.5°	7473.0	7540.7	7531.0	7576.1	7592.2	7656.7	7721.1	7808.1	7904.8	7901.6
5°	7050.9	7118.5	7134.6	7195.9	7273.2	7373.1	7505.2	7679.2	7859.7	7888.7
7.5°	6551.4	6622.3	6664.2	6786.6	6928.4	7134.6	7350.5	7605.1	7904.8	7946.7
10°	6051.9	6116.3	6171.1	6345.1	6570.7	6876.8	7228.1	7595.5	7998.3	8059.5
12.5°	5742.5	5803.7	5865.0	6016.4	6296.8	6670.6	7147.5	7640.6	8153.0	8240.0
15°	5632.9	5687.7	5736.1	5871.4	6132.4	6557.8	7131.4	7734.0	8349.5	8465.5
17.5°	5649.1	5678.1	5710.3	5813.4	6068.0	6506.2	7160.4	7895.2	8581.5	8684.7
20°	5742.5	5758.6	5761.8	5832.7	6058.3	6499.8	7218.4	8049.8	8800.7	8939.2
22.5°	5861.7	5868.2	5861.7	5910.1	6119.5	6548.1	7295.8	8236.7	9045.6	9174.5
25°	6419.2	6296.8	6142.1	6048.7	6222.7	6641.6	7411.8	8488.1	9313.1	9438.7
27.5°	8149.7	7798.5	7244.2	6622.3	6435.4	6776.9	7572.9	8742.7	9583.7	9696.5
30°	10959.8	10498.9	9558.0	8156.2	7118.5	7060.5	7782.4	8997.3	9870.6	9993.0
32.5°	13776.2	13663.4	12577.5	10637.5	8655.7	7692.1	8130.4	9342.1	10250.8	10347.5
35°	16624.9	16396.1	15506.7	13589.3	11024.2	8977.9	8710.4	9793.2	10750.3	10859.9
37.5°	18806.6	18668.0	18117.0	16537.9	13834.2	10963.0	9703.0	10492.5	11475.4	11597.8
40°	20733.6	20669.2	20482.3	19441.4	16976.2	13560.3	11246.6	11575.3	12480.8	12625.8
42.5°	22248.2	22399.7	22506.0	22216.0	20214.8	16525.0	13321.9	13096.3	13882.6	14030.8
45°	23798.2	23849.8	24278.4	24697.3	23430.9	19625.1	15661.4	14878.3	15626.0	15809.6
47.5°	24794.0	25000.2	25754.3	26492.3	26134.6	22699.4	18175.0	16982.6	17646.5	17991.3
50°	24868.1	25258.0	26295.7	27581.5	28103.5	25625.4	20907.7	19380.2	20085.9	20466.2
52.5°	23633.9	24239.7	25847.8	27729.7	29166.9	28103.5	23733.8	21777.7	22683.3	23179.5
55°	18120.2	18912.9	24162.4	26924.1	29208.8	29982.2	26485.8	24275.2	25577.1	26137.8
57.5°	15787.1	16186.7	18996.7	25525.5	28432.2	30739.5	28973.6	26653.4	28725.5	29421.5
60°	13135.0	13660.2	15932.1	23237.5	27378.5	30813.7	31171.3	29721.2	32138.1	32921.2
62.5°	8926.4	9496.7	11755.7	19306.1	25938.0	30778.2	32972.7	32879.3	35931.0	36772.1
65°	5529.8	5887.5	7376.3	15764.5	23923.9	30816.9	34857.9	36714.1	39933.4	40787.3
67.5°	4369.7	4534.1	5310.7	12103.8	20453.3	29946.8	36739.8	40320.1	43700.5	44377.2
70°	2935.7	3035.6	3863.8	8114.3	15216.7	25931.5	36704.4	42131.1	45640.4	45978.8
72.5°	1546.8	1624.1	2259.0	3757.4	9190.6	18432.8	30939.3	39965.6	43710.1	43201.0
75°	773.4	902.3	1521.0	1907.7	3925.0	10279.8	19212.6	31509.7	34403.5	32431.4
77.5°	586.5	709.0	1256.8	1256.8	1366.3	3461.0	8136.8	17185.7	15851.5	13199.4
80°	373.8	483.4	1098.9	950.6	570.4	879.7	2120.4	4814.4	3367.5	2561.9
82.5°	219.1	315.8	915.2	628.4	319.0	325.5	599.4	1024.8	873.3	679.9
85°	87.0	206.2	628.4	248.1	125.7	80.6	180.5	219.1	180.5	135.3
87.5°	0.0	48.3	109.6	0.0	9.7	6.4	12.9	16.1	16.1	12.9
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°
7959.6	0°	7959.6	7959.6	7959.6	7959.6	7959.6	7959.6	7959.6	7959.6	7959.6	7959.6
7966.0	2.5°	7995.1	8001.5	8020.8	8024.1	7978.9	7920.9	7898.4	7888.7	7850.0	7846.8
8017.6	5°	8091.7	8120.7	8091.7	8007.9	7808.1	7527.8	7315.1	7141.1	6983.2	6934.8
8194.8	7.5°	8285.1	8314.1	8227.1	7898.4	7395.7	6838.2	6335.5	5981.0	5662.0	5542.7
8410.8	10°	8562.2	8600.9	8327.0	7663.1	6773.7	5877.9	5027.1	4427.7	3960.5	3770.3
8704.0	12.5°	8910.2	8926.4	8381.8	7305.4	5964.9	4685.5	3480.3	2839.0	2423.3	2268.6
9058.5	15°	9293.7	9271.2	8388.2	6818.8	4862.8	3312.7	2271.9	1865.8	1698.3	1646.7
9413.0	17.5°	9696.5	9603.1	8259.3	6116.3	3654.3	2265.4	1685.4	1588.7	1559.7	1546.8
9764.2	20°	10092.9	9883.4	8024.1	5197.9	2623.1	1691.8	1530.7	1501.7	1485.6	1479.1
10118.7	22.5°	10453.8	10096.1	7621.2	4131.3	1904.5	1495.2	1446.9	1421.1	1392.1	1379.2
10463.5	25°	10805.1	10218.6	7054.1	3135.5	1524.2	1398.6	1359.9	1311.6	1272.9	1256.8
10834.1	27.5°	11146.7	10295.9	6345.1	2320.2	1359.9	1308.3	1237.4	1169.8	1140.8	1134.3
11230.5	30°	11510.8	10321.7	5539.5	1730.5	1260.0	1195.6	1092.4	1015.1	999.0	1002.2
11765.4	32.5°	11955.5	10360.4	4727.4	1417.9	1176.2	1060.2	937.8	857.2	844.3	857.2
12545.2	35°	12487.2	10437.7	3944.4	1305.1	1102.1	921.6	789.5	721.8	709.0	718.6
13544.2	37.5°	13209.1	10563.4	3212.8	1282.6	1040.9	805.6	663.8	609.1	609.1	612.3
14768.8	40°	14169.4	10898.5	2558.7	1266.4	1008.6	718.6	560.7	538.2	547.8	554.3
16328.5	42.5°	15339.2	11610.7	2117.2	1247.1	973.2	679.9	509.2	499.5	515.6	522.0
18197.5	45°	16650.7	12513.0	1962.5	1214.9	941.0	705.7	486.6	473.7	493.0	496.3
20292.2	47.5°	18007.4	13396.0	1943.2	1179.4	908.7	744.4	480.2	451.2	473.7	476.9
22528.6	50°	19380.2	13972.8	1962.5	1124.7	857.2	744.4	483.4	428.6	447.9	457.6
24848.8	52.5°	20762.6	14237.1	1949.6	1005.4	767.0	699.3	483.4	409.3	428.6	435.0
27355.9	55°	22103.2	14185.5	1753.0	828.2	650.9	618.7	470.5	393.1	406.0	409.3
29724.4	57.5°	23163.4	13466.9	1388.9	644.5	528.5	515.6	428.6	373.8	383.5	380.3
31896.4	60°	23717.7	11887.8	992.5	496.3	415.7	406.0	377.0	348.0	354.5	338.4
33736.5	62.5°	23724.1	9799.7	663.8	393.1	331.9	322.3	322.3	312.6	306.1	273.9
35160.8	65°	23218.2	7482.7	441.5	312.6	267.5	251.4	270.7	267.5	244.9	199.8
35595.9	67.5°	22071.0	4904.7	335.1	244.9	206.2	196.6	215.9	225.6	209.5	167.6
34010.4	70°	19712.1	2855.1	277.1	190.1	154.7	145.0	174.0	193.4	174.0	135.3
29070.3	72.5°	16373.6	1540.4	225.6	141.8	106.3	96.7	138.6	157.9	138.6	99.9
18651.9	75°	10624.6	825.0	174.0	93.5	54.8	61.2	103.1	116.0	96.7	64.5
5475.0	77.5°	3567.3	364.1	109.6	45.1	25.8	25.8	61.2	70.9	45.1	22.6
995.8	80°	796.0	151.5	45.1	19.3	9.7	9.7	12.9	12.9	6.4	0.0
306.1	82.5°	261.0	61.2	19.3	6.4	0.0	0.0	0.0	0.0	0.0	0.0
77.3	85°	99.9	22.6	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.8	87.5°	38.7	3.2	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°
7959.6
7853.3
6905.8
5494.4
3689.8
2220.3
1646.7
1543.6
1472.7
1376.0
1250.3
1127.9
1002.2
854.0
715.4
609.1
554.3
522.0
499.5
480.2
460.8
435.0
409.3
380.3
335.1
264.2
193.4
164.3
128.9
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58.0
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