

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: P956960

Luminaire Tested: **GALN-SB9B-950-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956960
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-SB9B-950-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 450mA 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: 30209 lumens
Efficiency: N/A
Efficacy: 91.7 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

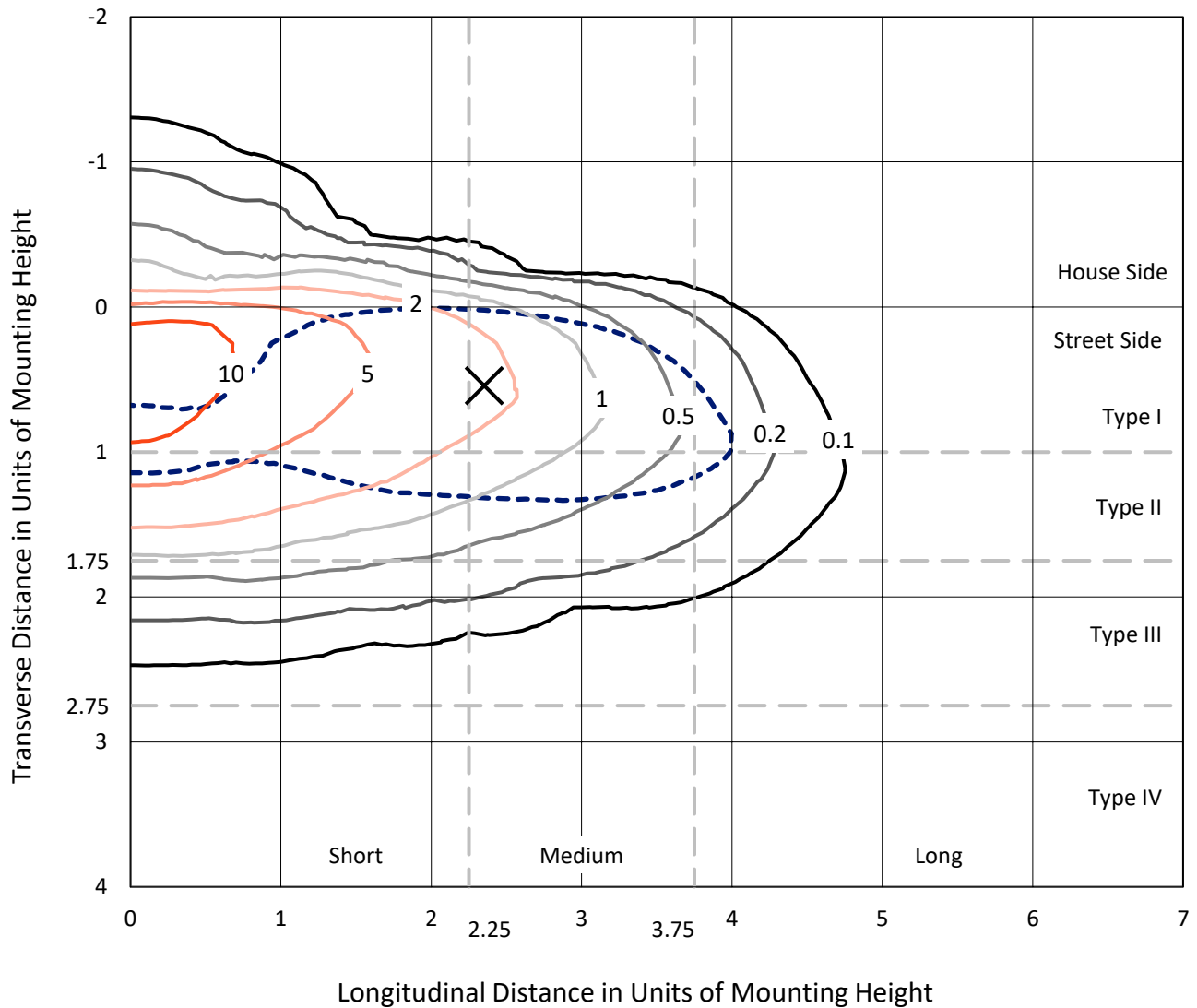
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

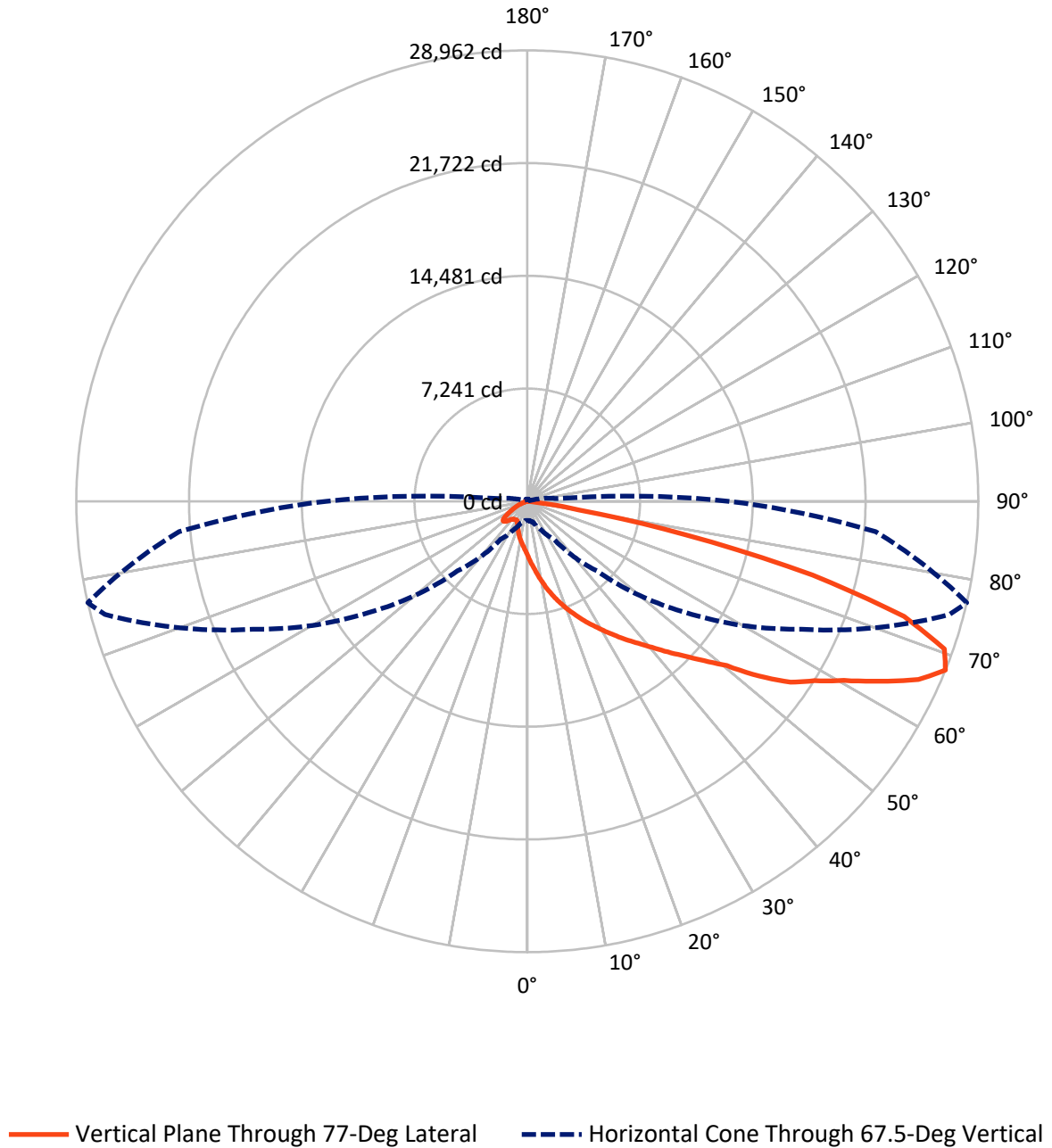
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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	2222.5	0.0	2222.5
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	27986.5	0.0	27986.5
	% Fixture	92.6	0.0	92.6
Total	Lumens	30209.0	0.0	30209.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.5	1.2
10°-20°	1245.1	4.1
20°-30°	2402.7	8.0
30°-40°	4171.2	13.8
40°-50°	6056.4	20.0
50°-60°	6955.0	23.0
60°-70°	6038.3	20.0
70°-80°	2844.1	9.4
80°-90°	140.7	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°	30209.0	100.0
0°-180°	30209.0	100.0

Coefficient of Utilization



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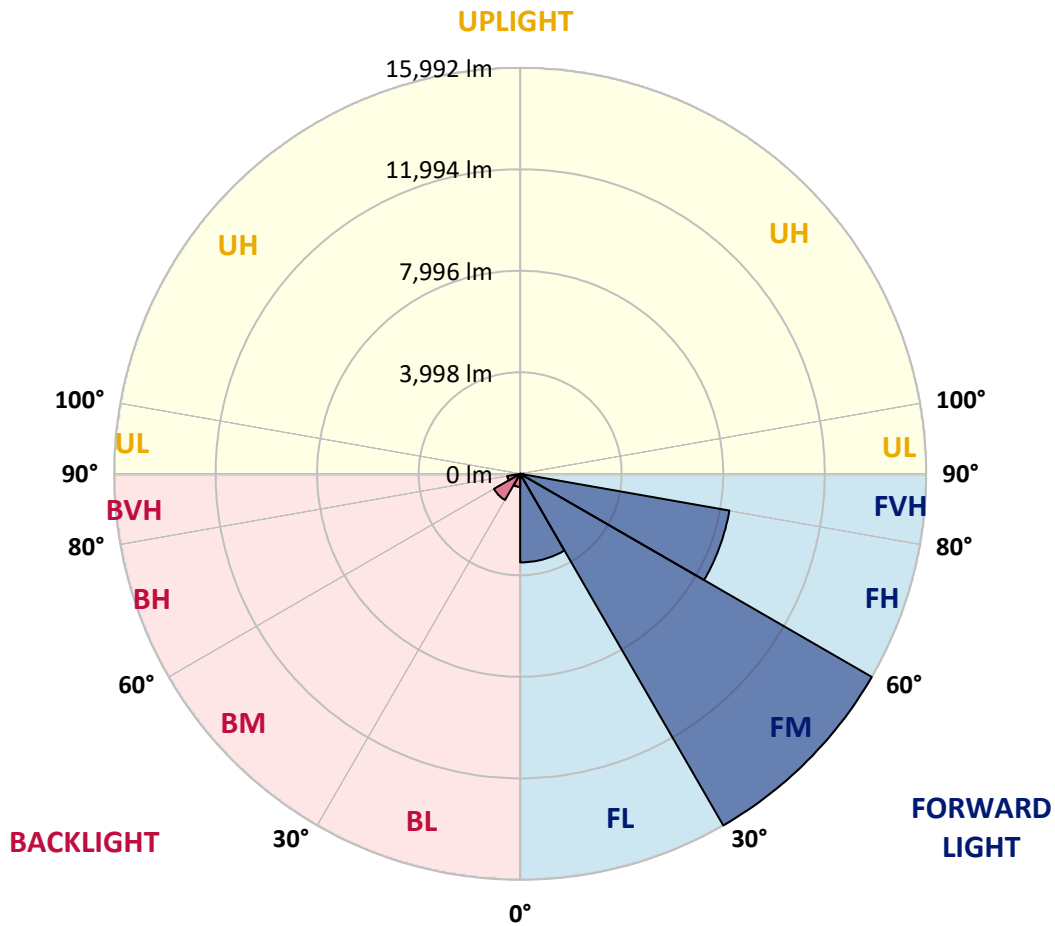
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3488.8	11.5			
FM (30°-60°)	15991.8	52.9			
FH (60°-80°)	8367.8	27.7			G4/12000
FVH (80°-90°)	138.1	0.5			G2/225
BL (0°-30°)	514.5	1.7	B2/1000		
BM (30°-60°)	1190.8	3.9	B2/2500		
BH (60°-80°)	514.5	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.6	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°	3483.5	3483.5	3483.5	3483.5	3483.5	3483.5	3483.5	3483.5	3483.5	3483.5
2.5°	4822.9	4852.9	4809.8	4727.3	4603.5	4522.8	4325.8	4140.1	3933.8	3868.1
5°	5879.1	5905.3	5856.6	5766.5	5601.4	5443.9	5185.0	4796.7	4393.4	4263.9
7.5°	6661.3	6676.3	6657.6	6575.0	6417.4	6239.2	5950.3	5490.8	4892.3	4749.8
10°	7224.1	7272.9	7267.2	7235.3	7130.3	6985.8	6678.2	6154.8	5451.4	5267.5
12.5°	7597.4	7651.8	7683.7	7755.0	7749.3	7657.4	7387.3	6833.9	6008.5	5792.8
15°	7706.2	7764.3	7886.3	8051.4	8197.7	8244.6	8055.1	7499.8	6621.9	6346.2
17.5°	7644.3	7734.3	7880.6	8141.4	8462.2	8674.2	8653.5	8143.3	7179.1	6863.9
20°	7781.2	7867.5	7981.9	8201.4	8574.7	8959.3	9113.1	8758.6	7732.4	7402.3
22.5°	8539.1	8524.1	8535.3	8571.0	8794.2	9175.0	9492.0	9317.6	8280.2	7942.6
25°	9739.7	9672.1	9557.7	9364.5	9308.2	9492.0	9822.2	9812.8	8858.0	8495.9
27.5°	11116.6	11105.3	10837.1	10371.8	10109.2	10037.9	10195.5	10294.9	9430.1	9043.7
30°	12435.3	12465.3	12103.3	11585.5	11103.4	10823.9	10681.4	10752.6	10011.7	9634.6
32.5°	13583.4	13615.3	13221.3	12615.4	12018.9	11681.2	11381.1	11204.7	10645.7	10234.9
35°	14553.2	14585.1	14133.0	13463.3	12827.4	12521.6	12182.1	11700.0	11283.5	10900.8
37.5°	15419.9	15410.5	14804.6	14129.3	13504.6	13262.6	13084.4	12309.6	11940.1	11570.5
40°	15932.0	15971.4	15453.6	14708.9	14103.0	13926.7	13915.4	13065.6	12698.0	12339.7
42.5°	16082.1	16151.5	15776.3	15164.8	14615.1	14423.8	14718.3	13883.5	13579.6	13230.7
45°	15811.9	15879.5	15708.8	15284.8	14964.0	14840.2	15408.6	14731.4	14521.3	14176.2
47.5°	15024.1	15108.5	15149.7	15059.7	15056.0	15181.6	16027.7	15624.4	15639.4	15286.7
50°	13499.0	13641.5	14020.5	14339.4	14832.7	15451.8	16629.8	16592.3	16900.0	16596.1
52.5°	10726.4	10929.0	12234.6	13106.9	14215.6	15401.1	17292.0	18145.6	19111.6	18667.1
55°	8619.7	8619.7	9681.5	11313.5	13011.2	15067.2	17580.9	19154.8	20618.0	20512.9
57.5°	7027.1	7111.5	7788.7	9231.3	11268.5	14271.8	17759.1	19788.8	21831.7	21754.8
60°	4337.1	4519.0	5798.4	7222.2	9285.7	12855.5	17646.6	20430.4	23304.3	23366.2
62.5°	2442.4	2510.0	3080.2	5196.2	7220.3	10951.5	16785.5	20788.7	25187.7	25450.3
65°	1686.4	1720.2	1939.7	3234.0	5004.9	8719.2	15102.9	20565.5	27074.8	27605.7
67.5°	1225.0	1241.8	1378.8	1975.3	2969.5	6321.8	12465.3	19439.9	28074.7	28962.0
70°	941.7	953.0	1052.4	1298.1	1754.0	3901.9	9053.1	17202.0	27350.6	28410.5
72.5°	765.4	776.6	853.5	960.5	1163.1	2307.4	5487.0	13969.8	24154.1	25298.4
75°	645.3	660.3	729.7	799.1	911.7	1482.0	2573.7	9728.4	18164.3	18914.7
77.5°	358.3	330.2	592.8	662.2	769.1	937.9	1204.3	5725.2	10173.0	10381.2
80°	223.2	230.7	470.9	532.8	590.9	472.7	551.5	2204.2	3526.7	3350.4
82.5°	13.1	30.0	362.0	384.6	405.2	202.6	208.2	748.5	849.8	780.4
85°	0.0	0.0	165.1	133.2	140.7	58.2	60.0	174.5	114.4	123.8
87.5°	0.0	0.0	0.0	3.8	0.0	5.6	11.3	15.0	5.6	7.5
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°
3483.5	0°	3483.5	3483.5	3483.5	3483.5	3483.5	3483.5	3483.5	3483.5	3483.5	3483.5
3661.8	2.5°	3530.4	3399.1	3132.7	2872.0	2660.0	2463.1	2322.4	2189.2	2121.6	2117.9
3898.1	5°	3637.4	3361.6	2828.9	2358.0	1979.1	1675.2	1478.2	1337.5	1266.2	1241.8
4188.9	7.5°	3787.4	3372.9	2562.5	1907.8	1461.3	1200.6	1088.0	1043.0	1028.0	1011.1
4517.2	10°	3976.9	3399.1	2324.2	1536.4	1151.8	1020.5	975.5	956.7	945.5	934.2
4886.7	12.5°	4188.9	3423.5	2087.9	1275.6	1013.0	945.5	913.6	891.1	876.0	862.9
5265.6	15°	4395.2	3438.5	1842.1	1093.6	941.7	887.3	853.5	829.1	808.5	793.5
5637.1	17.5°	4599.7	3459.2	1611.4	984.8	883.5	829.1	795.4	765.4	748.5	731.6
6027.3	20°	4826.7	3455.4	1393.8	907.9	825.4	771.0	735.4	707.2	690.3	671.6
6440.0	22.5°	5036.8	3436.6	1202.5	842.3	765.4	712.8	673.4	645.3	628.4	613.4
6862.0	25°	5278.8	3421.6	1043.0	782.2	709.1	656.6	613.4	587.2	568.4	555.3
7286.0	27.5°	5511.4	3399.1	926.7	727.8	654.7	604.0	562.8	532.8	515.9	506.5
7723.1	30°	5740.2	3393.5	883.5	675.3	605.9	555.3	514.0	485.9	472.7	469.0
8203.3	32.5°	6016.0	3408.5	902.3	656.6	560.9	510.2	470.9	450.2	437.1	437.1
8737.9	35°	6310.5	3404.8	930.4	673.4	530.9	465.2	435.2	422.1	408.9	408.9
9330.7	37.5°	6680.1	3410.4	953.0	701.6	519.6	427.7	410.8	393.9	386.4	386.4
9979.8	40°	7231.6	3596.1	941.7	726.0	515.9	401.4	367.7	362.0	356.4	356.4
10713.3	42.5°	7906.9	3999.4	956.7	727.8	514.0	382.7	337.7	348.9	335.8	333.9
11540.5	45°	8646.0	4440.2	1052.4	688.5	512.1	373.3	322.7	335.8	315.2	315.2
12499.1	47.5°	9379.5	4877.3	1149.9	632.2	506.5	371.4	309.5	302.0	296.4	298.3
13748.5	50°	10390.6	5233.8	1187.4	555.3	493.4	367.7	285.1	287.0	283.3	287.0
15509.9	52.5°	11491.7	5308.8	1142.4	469.0	455.8	356.4	268.3	275.8	273.9	277.6
16749.9	55°	12178.3	5228.1	943.6	390.2	397.7	311.4	251.4	266.4	266.4	266.4
17961.7	57.5°	12887.4	4884.8	669.7	317.0	330.2	255.1	236.4	257.0	255.1	253.2
19421.2	60°	13397.7	4329.6	440.8	260.7	262.6	210.1	219.5	242.0	240.1	230.7
20925.6	62.5°	13778.5	3716.2	283.3	221.4	200.7	189.5	200.7	219.5	212.0	191.3
22201.2	65°	13735.3	2866.4	217.6	189.5	165.1	165.1	174.5	191.3	168.8	135.1
22445.1	67.5°	12934.3	1939.7	180.1	159.5	138.8	136.9	144.4	159.5	144.4	114.4
21195.8	70°	11503.0	1268.1	144.4	123.8	110.7	101.3	116.3	136.9	121.9	91.9
18044.3	72.5°	9336.3	772.9	108.8	90.0	80.7	65.7	91.9	112.6	97.5	67.5
12547.9	75°	6040.4	393.9	75.0	58.2	43.1	39.4	67.5	84.4	67.5	41.3
5567.7	77.5°	2311.1	165.1	41.3	26.3	22.5	18.8	37.5	50.6	28.1	9.4
1078.6	80°	444.6	69.4	20.6	13.1	11.3	7.5	5.6	3.8	0.0	0.0
191.3	82.5°	76.9	22.5	7.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0
37.5	85°	26.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.1	87.5°	9.4	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>
3483.5
2114.1
1238.1
1007.4
930.4
859.2
791.6
729.7
669.7
611.5
553.4
506.5
467.1
437.1
408.9
386.4
356.4
332.0
315.2
298.3
287.0
277.6
266.4
253.2
230.7
187.6
131.3
<i>110.7</i>
88.2
63.8
35.6
7.5
0.0
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