

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: P953957

Luminaire Tested: **GALN-SB7B-835-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953957
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-SB7B-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3500K, 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: 31449 lumens
Efficiency: N/A
Efficacy: 122.5 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

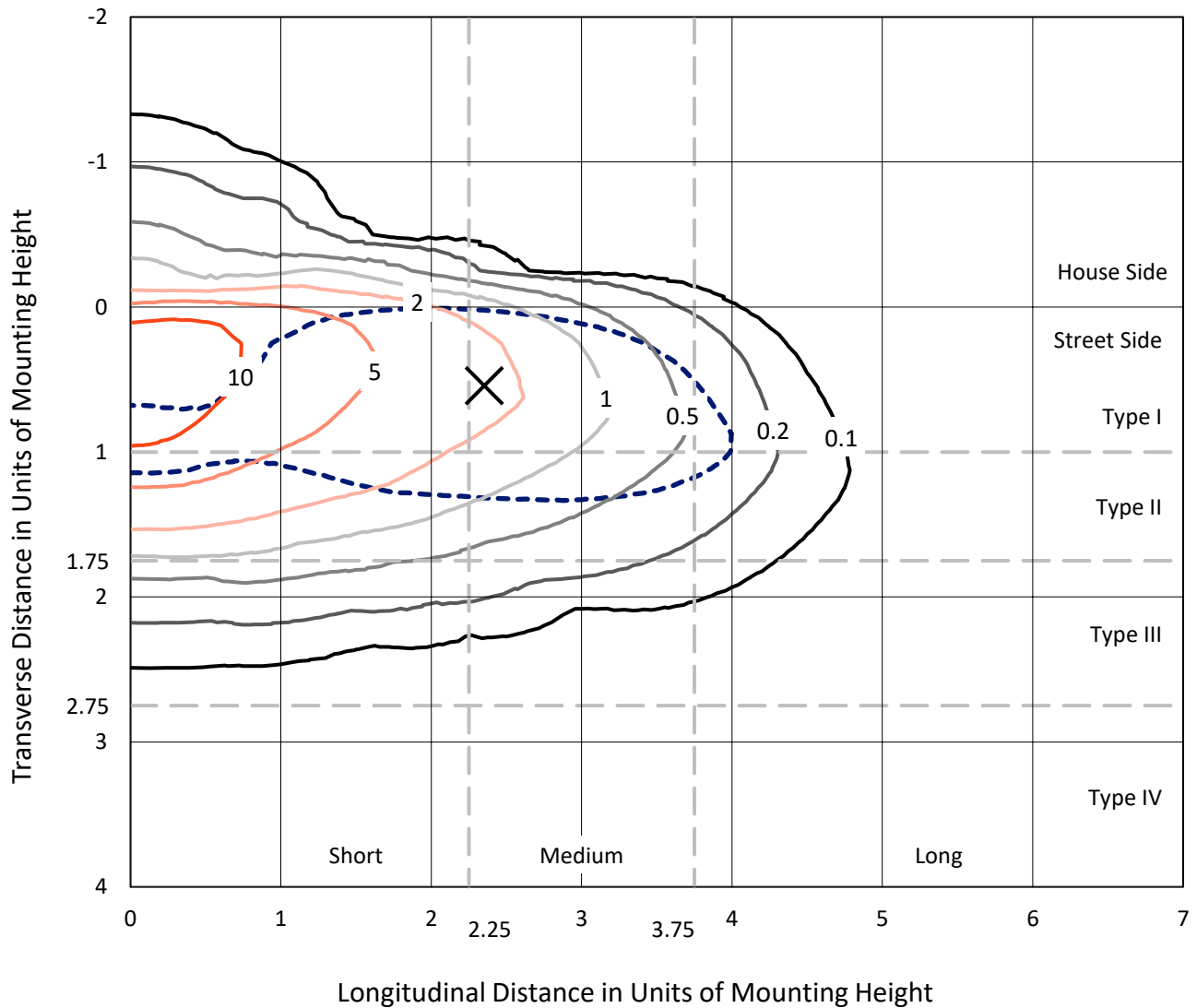
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

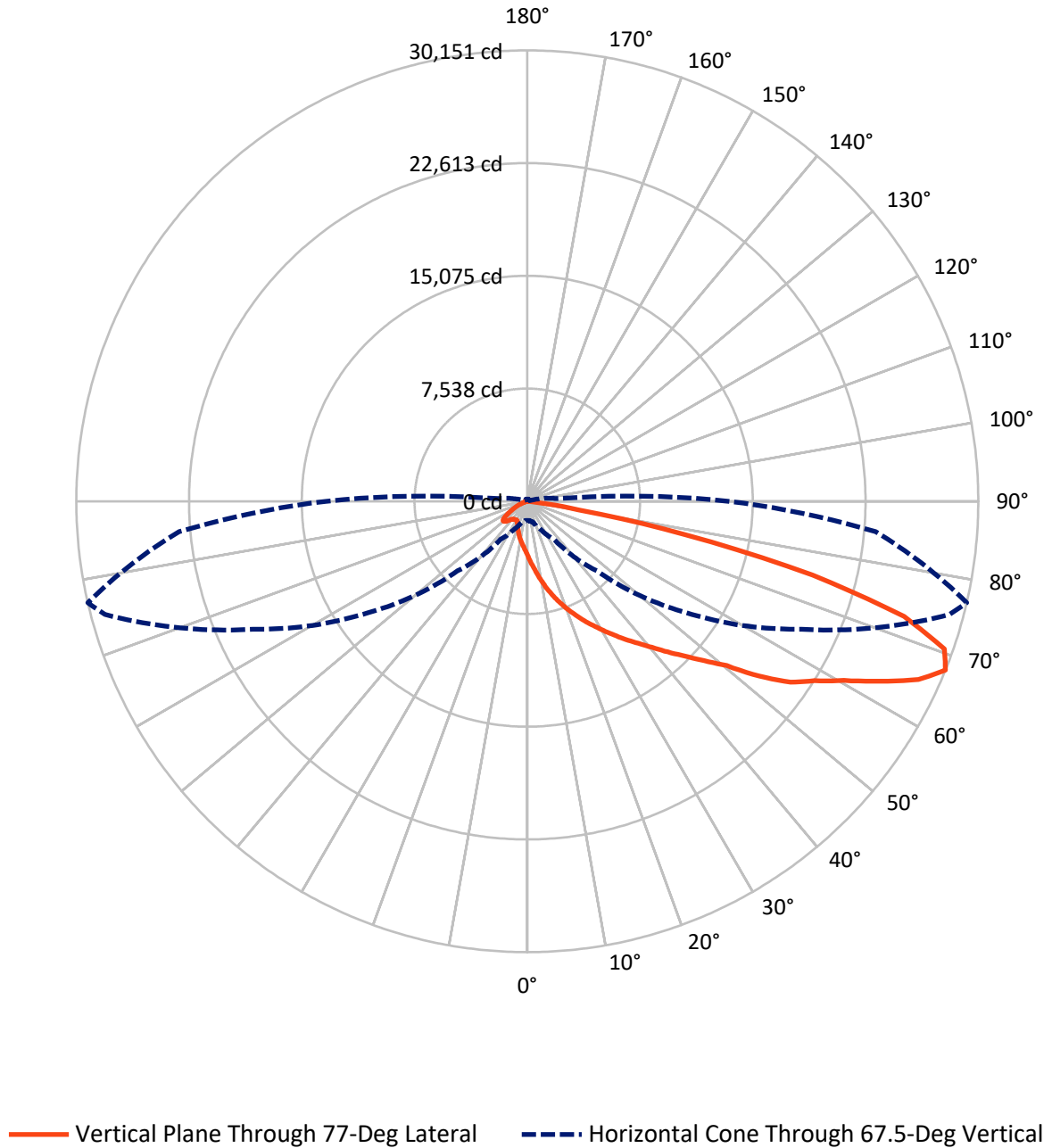
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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	2313.7	0.0	2313.7
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	29135.3	0.0	29135.3
	% Fixture	92.6	0.0	92.6
Total	Lumens	31449.0	0.0	31449.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.1	1.2
10°-20°	1296.2	4.1
20°-30°	2501.3	8.0
30°-40°	4342.5	13.8
40°-50°	6305.0	20.0
50°-60°	7240.5	23.0
60°-70°	6286.1	20.0
70°-80°	2960.8	9.4
80°-90°	146.4	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°	31449.0	100.0
0°-180°	31449.0	100.0

Coefficient of Utilization



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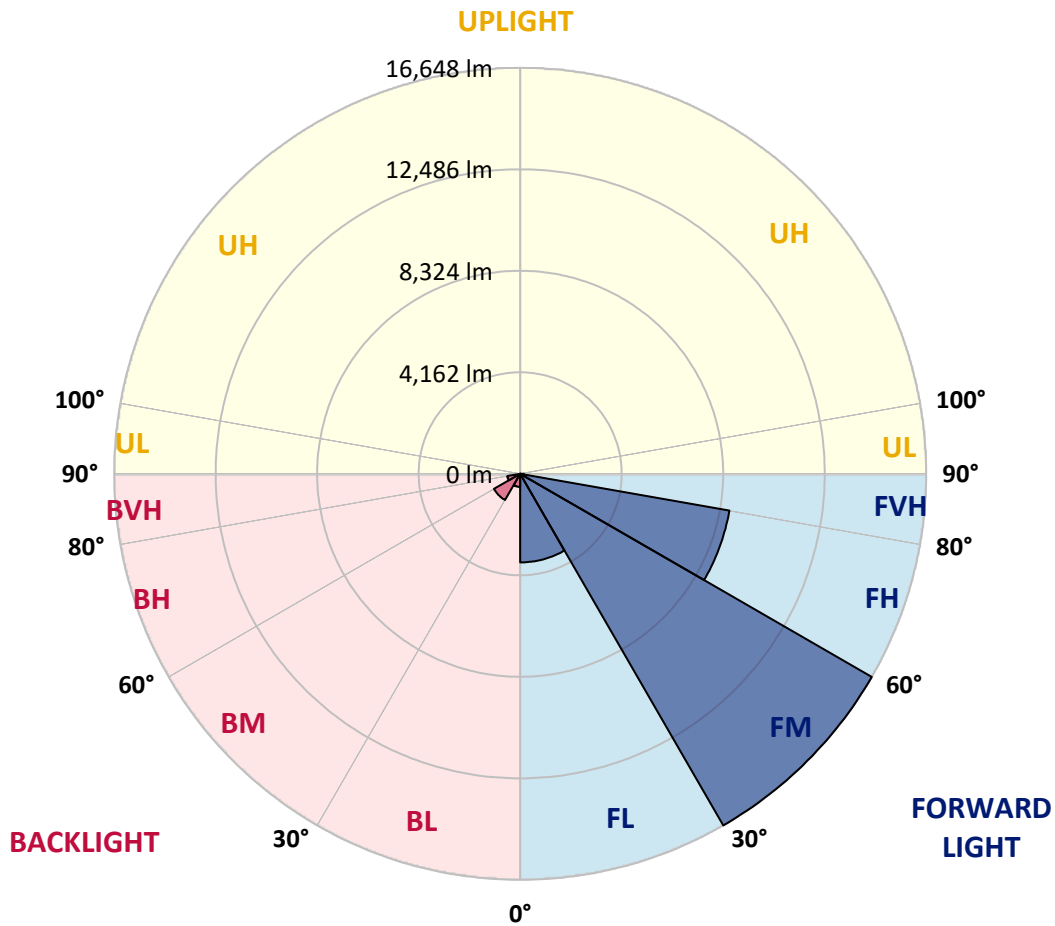
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3632.0	11.5			
FM (30°-60°)	16648.3	52.9			
FH (60°-80°)	8711.3	27.7			G4/12000
FVH (80°-90°)	143.7	0.5			G2/225
BL (0°-30°)	535.7	1.7	B2/1000		
BM (30°-60°)	1239.7	3.9	B2/2500		
BH (60°-80°)	535.7	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.7	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°	3626.5	3626.5	3626.5	3626.5	3626.5	3626.5	3626.5	3626.5	3626.5	3626.5
2.5°	5020.9	5052.1	5007.2	4921.3	4792.4	4708.4	4503.4	4310.0	4095.2	4026.9
5°	6120.4	6147.7	6096.9	6003.2	5831.4	5667.3	5397.8	4993.6	4573.7	4438.9
7.5°	6934.7	6950.4	6930.8	6844.9	6680.9	6495.3	6194.6	5716.1	5093.2	4944.7
10°	7520.6	7571.4	7565.5	7532.3	7423.0	7272.6	6952.3	6407.5	5675.1	5483.7
12.5°	7909.2	7965.9	7999.1	8073.3	8067.4	7971.7	7690.5	7114.4	6255.1	6030.5
15°	8022.5	8083.0	8210.0	8381.8	8534.2	8583.0	8385.7	7807.7	6893.7	6606.7
17.5°	7958.1	8051.8	8204.1	8475.6	8809.5	9030.2	9008.7	8477.5	7473.7	7145.7
20°	8100.6	8190.5	8309.6	8538.1	8926.7	9327.0	9487.2	9118.1	8049.8	7706.1
22.5°	8889.6	8874.0	8885.7	8922.8	9155.2	9551.6	9881.7	9700.0	8620.1	8268.6
25°	10139.4	10069.1	9950.0	9748.9	9690.3	9881.7	10225.4	10215.6	9221.6	8844.7
27.5°	11572.9	11561.2	11281.9	10797.6	10524.2	10450.0	10614.0	10717.5	9817.2	9414.9
30°	12945.8	12977.0	12600.1	12061.1	11559.2	11268.2	11119.8	11194.0	10422.6	10030.1
32.5°	14140.9	14174.1	13764.0	13133.2	12512.2	12160.7	11848.2	11664.7	11082.7	10655.0
35°	15150.6	15183.8	14713.1	14016.0	13353.9	13035.6	12682.1	12180.2	11746.7	11348.3
37.5°	16052.8	16043.1	15412.3	14709.2	14058.9	13807.0	13621.5	12814.9	12430.2	12045.5
40°	16586.0	16627.0	16088.0	15312.7	14681.9	14498.3	14486.6	13601.9	13219.2	12846.2
42.5°	16742.2	16814.5	16423.9	15787.2	15215.0	15015.8	15322.4	14453.4	14137.0	13773.8
45°	16461.0	16531.3	16353.6	15912.2	15578.3	15449.4	16041.1	15336.1	15117.4	14758.1
47.5°	15640.8	15728.6	15771.6	15677.9	15674.0	15804.8	16685.6	16265.7	16281.3	15914.2
50°	14053.1	14201.5	14596.0	14928.0	15441.6	16086.0	17312.4	17273.4	17593.7	17277.3
52.5°	11166.7	11377.6	12736.8	13644.9	14799.1	16033.3	18001.8	18890.4	19896.1	19433.3
55°	8973.6	8973.6	10078.9	11777.9	13545.3	15685.7	18302.6	19941.0	21464.3	21354.9
57.5°	7315.6	7403.4	8108.4	9610.2	11731.1	14857.6	18488.1	20601.1	22727.8	22647.8
60°	4515.1	4704.5	6036.4	7518.7	9666.8	13383.2	18370.9	21269.0	24260.9	24325.3
62.5°	2542.7	2613.0	3206.7	5409.5	7516.7	11401.0	17474.5	21642.0	26221.6	26495.0
65°	1755.7	1790.8	2019.3	3366.8	5210.3	9077.1	15722.8	21409.6	28186.2	28738.9
67.5°	1275.2	1292.8	1435.4	2056.4	3091.4	6581.3	12977.0	20237.9	29227.1	30150.8
70°	980.4	992.1	1095.6	1351.4	1826.0	4062.0	9424.7	17908.1	28473.3	29576.6
72.5°	796.8	808.5	888.6	999.9	1210.8	2402.1	5712.2	14543.2	25145.5	26336.8
75°	671.8	687.4	759.7	831.9	949.1	1542.8	2679.4	10127.7	18909.9	19691.1
77.5°	373.0	343.7	617.1	689.4	800.7	976.4	1253.8	5960.2	10590.6	10807.3
80°	232.4	240.2	490.2	554.6	615.2	492.1	574.2	2294.7	3671.4	3487.9
82.5°	13.7	31.2	376.9	400.3	421.8	210.9	216.8	779.2	884.7	812.4
85°	0.0	0.0	171.9	138.7	146.5	60.5	62.5	181.6	119.1	128.9
87.5°	0.0	0.0	0.0	3.9	0.0	5.9	11.7	15.6	5.9	7.8
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°
3626.5	0°	3626.5	3626.5	3626.5	3626.5	3626.5	3626.5	3626.5	3626.5	3626.5	3626.5
3812.1	2.5°	3675.4	3538.7	3261.3	2989.9	2769.2	2564.2	2417.7	2279.0	2208.7	2204.8
4058.1	5°	3786.7	3499.6	2945.0	2454.8	2060.3	1743.9	1538.9	1392.4	1318.2	1292.8
4360.8	7.5°	3942.9	3511.3	2667.7	1986.1	1521.3	1249.9	1132.7	1085.8	1070.2	1052.6
4702.6	10°	4140.1	3538.7	2419.6	1599.4	1199.1	1062.4	1015.5	996.0	984.3	972.5
5087.3	12.5°	4360.8	3564.0	2173.6	1328.0	1054.6	984.3	951.1	927.6	912.0	898.3
5481.8	15°	4575.6	3579.7	1917.7	1138.5	980.4	923.7	888.6	863.2	841.7	826.1
5868.5	17.5°	4788.5	3601.1	1677.5	1025.3	919.8	863.2	828.0	796.8	779.2	761.6
6274.7	20°	5024.8	3597.2	1451.0	945.2	859.3	802.6	765.5	736.2	718.7	699.1
6704.3	22.5°	5243.5	3577.7	1251.8	876.9	796.8	742.1	701.1	671.8	654.2	638.6
7143.7	25°	5495.5	3562.1	1085.8	814.4	738.2	683.5	638.6	611.3	591.7	578.1
7585.1	27.5°	5737.6	3538.7	964.7	757.7	681.6	628.8	585.9	554.6	537.0	527.3
8040.1	30°	5975.9	3532.8	919.8	703.0	630.8	578.1	535.1	505.8	492.1	488.2
8540.0	32.5°	6262.9	3548.4	939.3	683.5	583.9	531.2	490.2	468.7	455.0	455.0
9096.6	35°	6569.5	3544.5	968.6	701.1	552.7	484.3	453.1	439.4	425.7	425.7
9713.7	37.5°	6954.3	3550.4	992.1	730.4	541.0	445.3	427.7	410.1	402.3	402.3
10389.4	40°	7528.4	3743.7	980.4	755.8	537.0	417.9	382.8	376.9	371.1	371.1
11153.0	42.5°	8231.5	4163.6	996.0	757.7	535.1	398.4	351.5	363.2	349.6	347.6
12014.2	45°	9000.9	4622.5	1095.6	716.7	533.1	388.6	335.9	349.6	328.1	328.1
13012.2	47.5°	9764.5	5077.5	1197.1	658.1	527.3	386.7	322.2	314.4	308.6	310.5
14312.8	50°	10817.1	5448.6	1236.2	578.1	513.6	382.8	296.8	298.8	294.9	298.8
16146.6	52.5°	11963.5	5526.7	1189.3	488.2	474.6	371.1	279.3	287.1	285.1	289.0
17437.4	55°	12678.2	5442.7	982.3	406.2	414.0	324.2	261.7	277.3	277.3	277.3
18699.0	57.5°	13416.4	5085.3	697.2	330.0	343.7	265.6	246.1	267.5	265.6	263.6
20218.4	60°	13947.6	4507.3	458.9	271.5	273.4	218.7	228.5	251.9	250.0	240.2
21784.6	62.5°	14344.0	3868.7	294.9	230.4	209.0	197.2	209.0	228.5	220.7	199.2
23112.6	65°	14299.1	2984.0	226.5	197.2	171.9	171.9	181.6	199.2	175.8	140.6
23366.4	67.5°	13465.2	2019.3	187.5	166.0	144.5	142.6	150.4	166.0	150.4	119.1
22065.8	70°	11975.2	1320.2	150.4	128.9	115.2	105.5	121.1	142.6	126.9	95.7
18784.9	72.5°	9719.6	804.6	113.3	93.7	84.0	68.4	95.7	117.2	101.6	70.3
13062.9	75°	6288.3	410.1	78.1	60.5	44.9	41.0	70.3	87.9	70.3	43.0
5796.2	77.5°	2406.0	171.9	43.0	27.3	23.4	19.5	39.1	52.7	29.3	9.8
1122.9	80°	462.8	72.3	21.5	13.7	11.7	7.8	5.9	3.9	0.0	0.0
199.2	82.5°	80.1	23.4	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
39.1	85°	27.3	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.7	87.5°	9.8	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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<u>180°</u>
3626.5
2200.9
1288.9
1048.7
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824.1
759.7
697.2
636.6
576.1
527.3
486.3
455.0
425.7
402.3
371.1
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328.1
310.5
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