

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: P952214

Luminaire Tested: **GALN-SB6A-850-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952214
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-SB6A-850-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 350mA 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: 22030 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

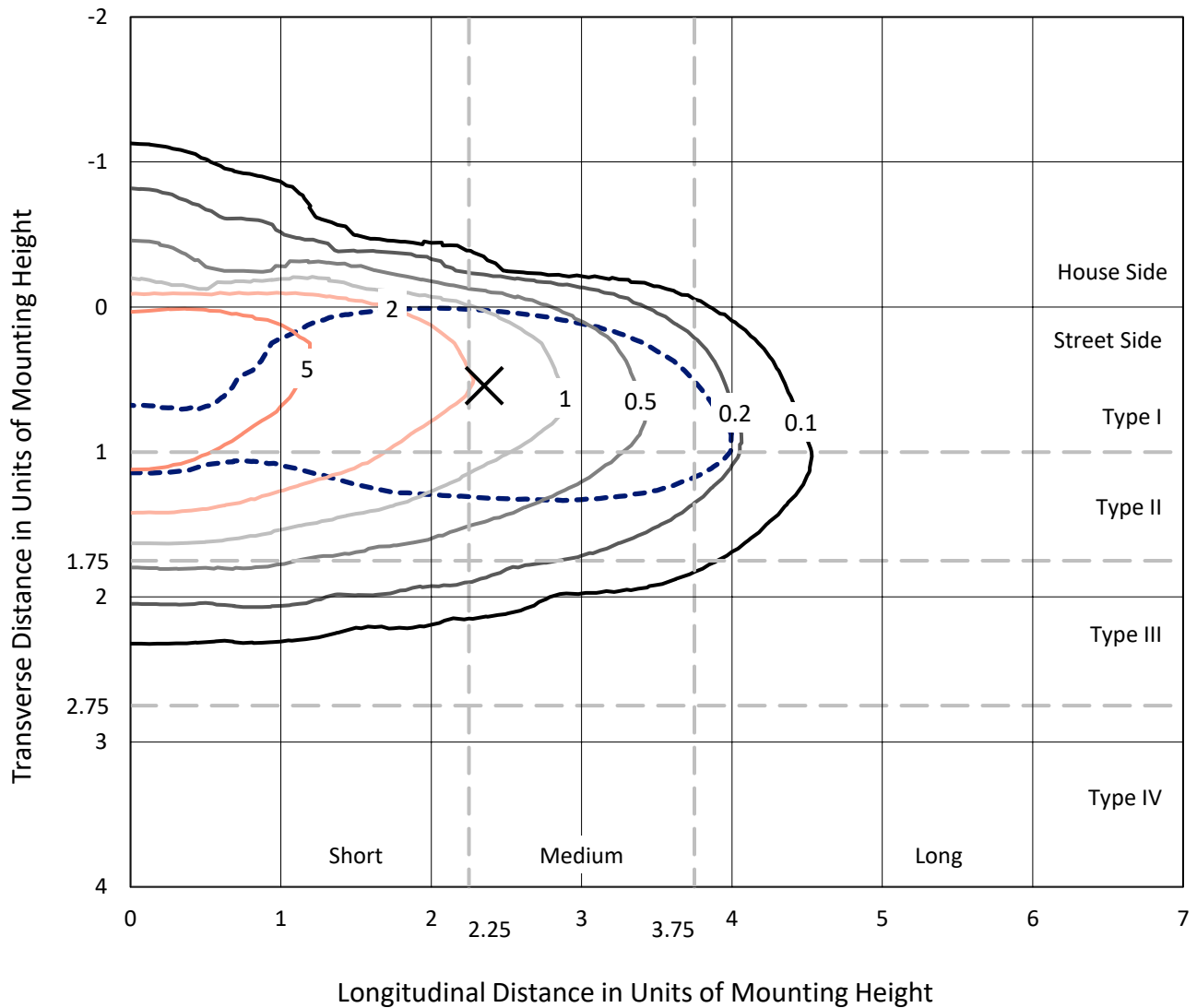
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

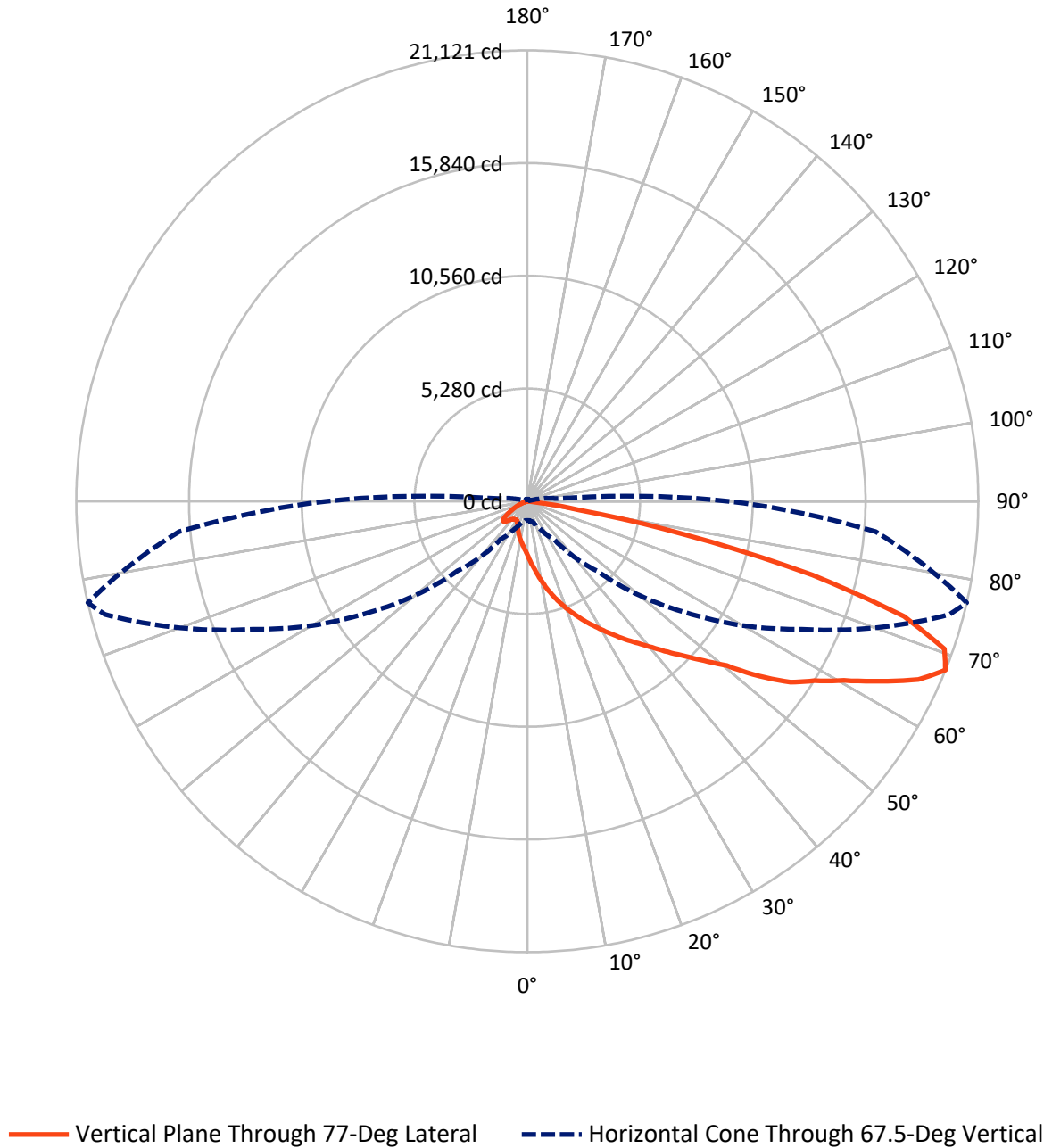
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	1620.7	0.0	1620.7
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	20409.2	0.0	20409.2
	% Fixture	92.6	0.0	92.6
Total	Lumens	22030.0	0.0	22030.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.3	1.2
10°-20°	908.0	4.1
20°-30°	1752.2	8.0
30°-40°	3041.9	13.8
40°-50°	4416.7	20.0
50°-60°	5072.0	23.0
60°-70°	4403.4	20.0
70°-80°	2074.1	9.4
80°-90°	102.6	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°	22030.0	100.0
0°-180°	22030.0	100.0

Coefficient of Utilization



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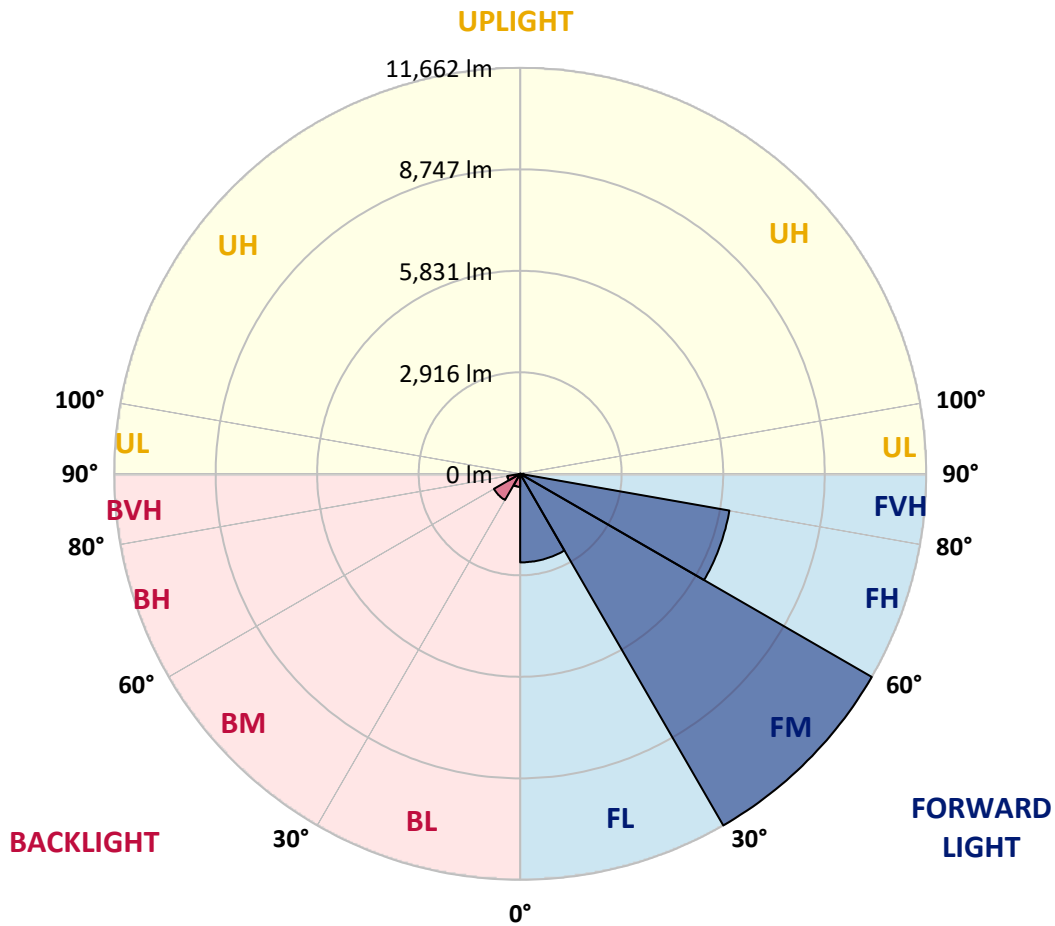
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2544.2	11.5			
FM (30°-60°)	11662.1	52.9			
FH (60°-80°)	6102.2	27.7			G3/7500
FVH (80°-90°)	100.7	0.5			G2/225
BL (0°-30°)	375.2	1.7	B1/500		
BM (30°-60°)	868.4	3.9	B1/1000		
BH (60°-80°)	375.2	1.7	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4
2.5°	3517.1	3539.0	3507.6	3447.4	3357.1	3298.3	3154.6	3019.2	2868.7	2820.8
5°	4287.3	4306.5	4270.9	4205.2	4084.9	3969.9	3781.2	3498.0	3203.9	3109.5
7.5°	4857.8	4868.7	4855.0	4794.9	4679.9	4550.0	4339.3	4004.1	3567.8	3463.8
10°	5268.2	5303.8	5299.6	5276.4	5199.8	5094.4	4870.1	4488.4	3975.4	3841.4
12.5°	5540.4	5580.1	5603.3	5655.3	5651.2	5584.2	5387.2	4983.6	4381.7	4224.4
15°	5619.8	5662.2	5751.1	5871.5	5978.2	6012.4	5874.2	5469.3	4829.1	4628.0
17.5°	5574.6	5640.3	5747.0	5937.1	6171.1	6325.6	6310.6	5938.5	5235.4	5005.5
20°	5674.5	5737.4	5820.9	5980.9	6253.1	6533.6	6645.8	6387.2	5638.9	5398.1
22.5°	6227.2	6216.2	6224.4	6250.4	6413.2	6690.9	6922.1	6794.9	6038.4	5792.1
25°	7102.7	7053.4	6970.0	6829.1	6788.0	6922.1	7162.9	7156.0	6459.7	6195.7
27.5°	8106.8	8098.6	7903.0	7563.7	7372.2	7320.2	7435.1	7507.6	6877.0	6595.1
30°	9068.5	9090.4	8826.4	8448.8	8097.2	7893.4	7789.4	7841.4	7301.0	7026.1
32.5°	9905.7	9929.0	9641.7	9199.8	8764.8	8518.6	8299.7	8171.1	7763.4	7463.8
35°	10613.0	10636.2	10306.5	9818.2	9354.4	9131.4	8883.8	8532.2	8228.5	7949.5
37.5°	11245.0	11238.2	10796.3	10303.8	9848.3	9671.8	9541.8	8976.8	8707.3	8437.8
40°	11618.5	11647.2	11269.6	10726.5	10284.7	10156.1	10147.9	9528.1	9260.0	8998.7
42.5°	11727.9	11778.5	11504.9	11058.9	10658.1	10518.6	10733.4	10124.6	9903.0	9648.5
45°	11530.9	11580.2	11455.7	11146.5	10912.6	10822.3	11236.8	10742.9	10589.7	10338.0
47.5°	10956.3	11017.9	11048.0	10982.3	10979.6	11071.3	11688.2	11394.1	11405.0	11147.9
50°	9844.2	9948.1	10224.5	10457.0	10816.8	11268.2	12127.4	12100.0	12324.3	12102.7
52.5°	7822.2	7970.0	8922.1	9558.2	10366.7	11231.3	12610.3	13232.7	13937.2	13613.0
55°	6286.0	6286.0	7060.3	8250.4	9488.5	10987.8	12820.9	13968.7	15035.7	14959.1
57.5°	5124.5	5186.1	5680.0	6731.9	8217.6	10407.8	12950.9	14431.1	15920.8	15864.7
60°	3162.8	3295.5	4228.5	5266.8	6771.6	9374.9	12868.8	14898.9	16994.7	17039.9
62.5°	1781.1	1830.4	2246.3	3789.4	5265.4	7986.4	12240.9	15160.2	18368.2	18559.7
65°	1229.8	1254.5	1414.5	2358.4	3649.8	6358.5	11013.8	14997.4	19744.4	20131.5
67.5°	893.3	905.6	1005.5	1440.5	2165.5	4610.2	9090.4	14176.6	20473.5	21120.6
70°	686.7	694.9	767.5	946.7	1279.1	2845.4	6602.0	12544.6	19945.5	20718.4
72.5°	558.1	566.4	622.4	700.4	848.2	1682.6	4001.4	10187.5	17614.4	18448.9
75°	470.6	481.5	532.2	582.8	664.8	1080.7	1876.9	7094.5	13246.4	13793.6
77.5°	261.3	240.8	432.3	482.9	560.9	684.0	878.3	4175.1	7418.7	7570.5
80°	162.8	168.3	343.4	388.5	430.9	344.7	402.2	1607.4	2571.8	2443.3
82.5°	9.6	21.9	264.0	280.4	295.5	147.7	151.8	545.8	619.7	569.1
85°	0.0	0.0	120.4	97.1	102.6	42.4	43.8	127.2	83.4	90.3
87.5°	0.0	0.0	0.0	2.7	0.0	4.1	8.2	10.9	4.1	5.5
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°
2540.4	0°	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4
2670.3	2.5°	2574.6	2478.8	2284.6	2094.4	1939.8	1796.2	1693.6	1596.5	1547.2	1544.5
2842.7	5°	2652.6	2451.5	2062.9	1719.6	1443.2	1221.6	1078.0	975.4	923.4	905.6
3054.8	7.5°	2762.0	2459.7	1868.7	1391.3	1065.7	875.5	793.4	760.6	749.7	737.4
3294.2	10°	2900.2	2478.8	1695.0	1120.4	840.0	744.2	711.4	697.7	689.5	681.3
3563.6	12.5°	3054.8	2496.6	1522.6	930.2	738.7	689.5	666.2	649.8	638.9	629.3
3840.0	15°	3205.2	2507.6	1343.4	797.5	686.7	647.1	622.4	604.7	589.6	578.7
4110.9	17.5°	3354.3	2522.6	1175.1	718.2	644.3	604.7	580.0	558.1	545.8	533.5
4395.4	20°	3519.9	2519.9	1016.4	662.1	601.9	562.2	536.3	515.7	503.4	489.7
4696.4	22.5°	3673.1	2506.2	876.9	614.2	558.1	519.8	491.1	470.6	458.3	447.3
5004.2	25°	3849.6	2495.2	760.6	570.5	517.1	478.8	447.3	428.2	414.5	404.9
5313.3	27.5°	4019.2	2478.8	675.8	530.8	477.4	440.5	410.4	388.5	376.2	369.4
5632.1	30°	4186.1	2474.7	644.3	492.5	441.9	404.9	374.8	354.3	344.7	342.0
5982.3	32.5°	4387.2	2485.7	658.0	478.8	409.0	372.1	343.4	328.3	318.7	318.7
6372.2	35°	4602.0	2482.9	678.5	491.1	387.1	339.3	317.4	307.8	298.2	298.2
6804.5	37.5°	4871.5	2487.0	694.9	511.6	378.9	311.9	299.6	287.3	281.8	281.8
7277.8	40°	5273.7	2622.5	686.7	529.4	376.2	292.8	268.1	264.0	259.9	259.9
7812.7	42.5°	5766.1	2916.6	697.7	530.8	374.8	279.1	246.2	254.4	244.9	243.5
8416.0	45°	6305.1	3238.1	767.5	502.1	373.5	272.2	235.3	244.9	229.8	229.8
9115.0	47.5°	6840.0	3556.8	838.6	461.0	369.4	270.9	225.7	220.2	216.1	217.5
10026.1	50°	7577.4	3816.7	865.9	404.9	359.8	268.1	207.9	209.3	206.6	209.3
11310.7	52.5°	8380.4	3871.5	833.1	342.0	332.4	259.9	195.6	201.1	199.7	202.5
12214.9	55°	8881.1	3812.6	688.1	284.5	290.0	227.1	183.3	194.3	194.3	194.3
13098.6	57.5°	9398.2	3562.3	488.4	231.2	240.8	186.0	172.4	187.4	186.0	184.7
14162.9	60°	9770.3	3157.4	321.5	190.2	191.5	153.2	160.1	176.5	175.1	168.3
15260.1	62.5°	10048.0	2710.0	206.6	161.4	146.4	138.2	146.4	160.1	154.6	139.5
16190.3	65°	10016.5	2090.3	158.7	138.2	120.4	120.4	127.2	139.5	123.1	98.5
16368.2	67.5°	9432.4	1414.5	131.3	116.3	101.2	99.9	105.3	116.3	105.3	83.4
15457.1	70°	8388.6	924.8	105.3	90.3	80.7	73.9	84.8	99.9	88.9	67.0
13158.8	72.5°	6808.6	563.6	79.3	65.7	58.8	47.9	67.0	82.1	71.1	49.2
9150.6	75°	4405.0	287.3	54.7	42.4	31.5	28.7	49.2	61.6	49.2	30.1
4060.2	77.5°	1685.4	120.4	30.1	19.2	16.4	13.7	27.4	36.9	20.5	6.8
786.6	80°	324.2	50.6	15.0	9.6	8.2	5.5	4.1	2.7	0.0	0.0
139.5	82.5°	56.1	16.4	5.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
27.4	85°	19.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.6	87.5°	6.8	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>
2540.4
1541.7
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403.6
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340.6
318.7
298.2
281.8
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