

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: P950639

Luminaire Tested: **GALN-SB5A-740-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950639
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-SB5A-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 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: 20298 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

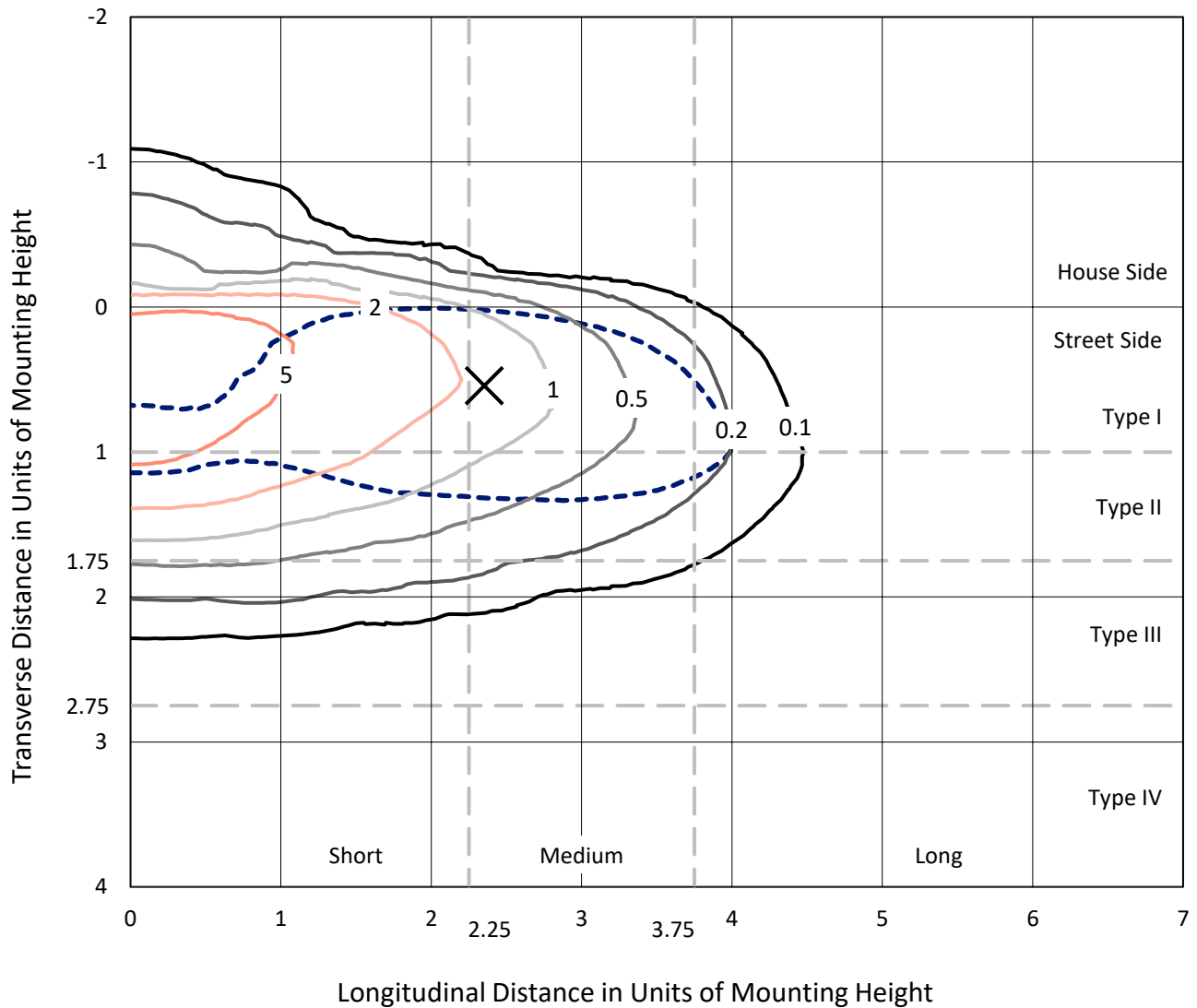
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

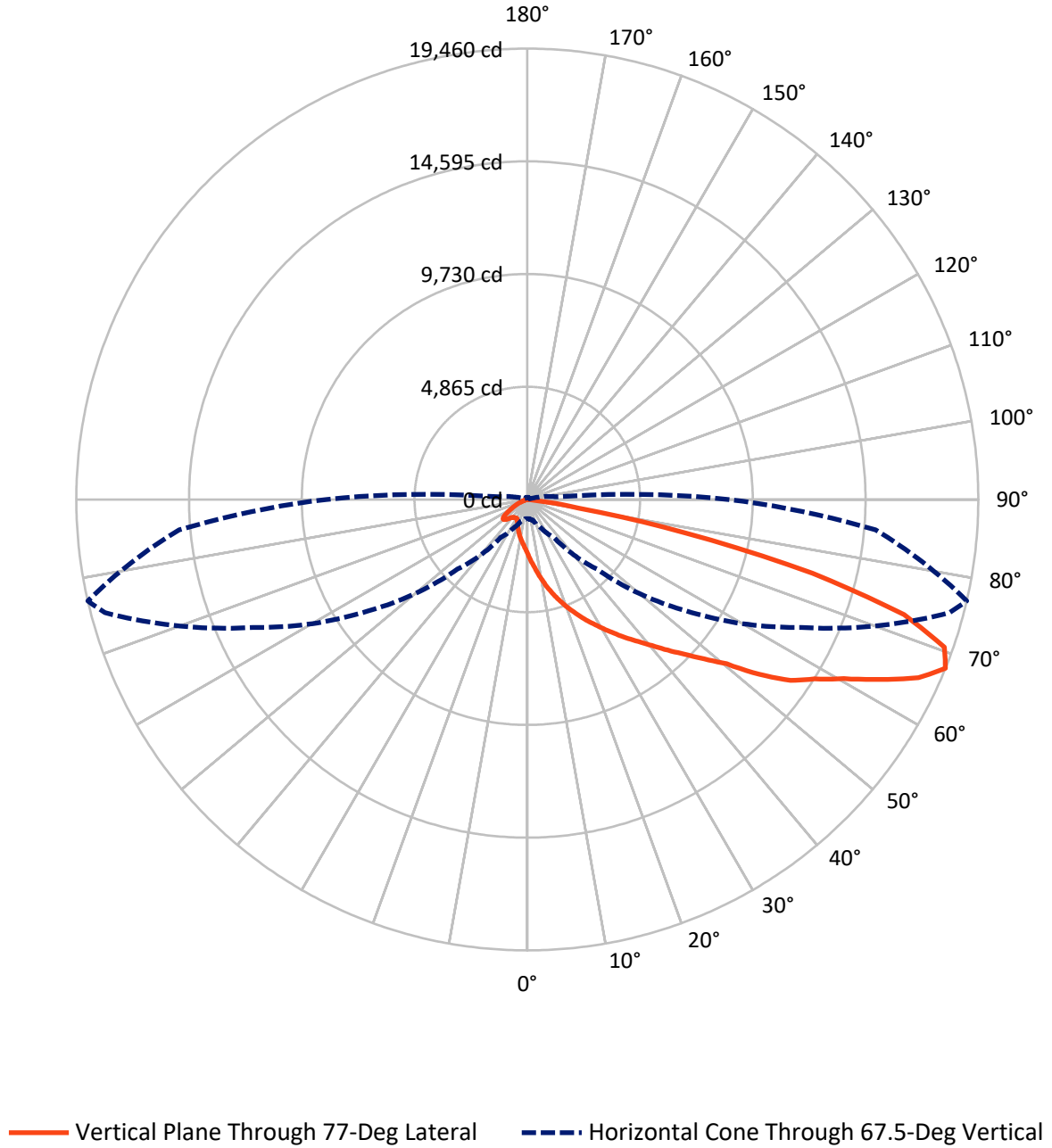
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	1493.3	0.0	1493.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	18804.7	0.0	18804.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	20298.0	0.0	20298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.9	1.2
10°-20°	836.6	4.1
20°-30°	1614.4	8.0
30°-40°	2802.7	13.8
40°-50°	4069.4	20.0
50°-60°	4673.2	23.0
60°-70°	4057.2	20.0
70°-80°	1911.0	9.4
80°-90°	94.5	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°	20298.0	100.0
0°-180°	20298.0	100.0

Coefficient of Utilization



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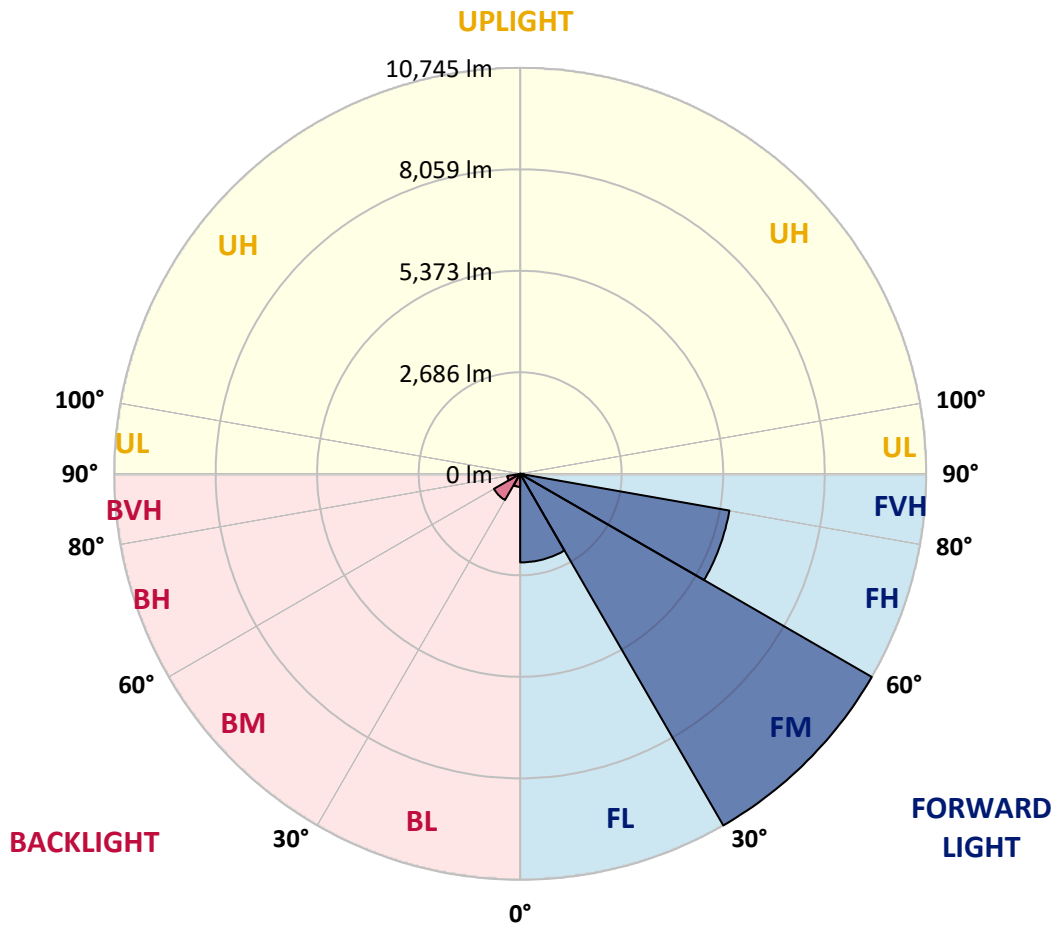
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2344.2	11.5			
FM (30°-60°)	10745.2	52.9			
FH (60°-80°)	5622.5	27.7			G3/7500
FVH (80°-90°)	92.8	0.5			G1/100
BL (0°-30°)	345.7	1.7	B1/500		
BM (30°-60°)	800.1	3.9	B1/1000		
BH (60°-80°)	345.7	1.7	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2340.7	2340.7	2340.7	2340.7	2340.7	2340.7	2340.7	2340.7	2340.7	2340.7
2.5°	3240.6	3260.8	3231.8	3176.3	3093.1	3038.9	2906.6	2781.8	2643.2	2599.1
5°	3950.3	3967.9	3935.1	3874.6	3763.7	3657.8	3483.9	3223.0	2952.0	2865.0
7.5°	4475.9	4485.9	4473.3	4417.9	4312.0	4192.3	3998.2	3689.3	3287.3	3191.5
10°	4854.0	4886.8	4883.0	4861.6	4791.0	4693.9	4487.2	4135.5	3662.9	3539.3
12.5°	5104.8	5141.4	5162.8	5210.7	5206.9	5145.2	4963.7	4591.8	4037.2	3892.3
15°	5177.9	5217.0	5298.9	5409.9	5508.2	5539.7	5412.4	5039.3	4449.4	4264.1
17.5°	5136.3	5196.8	5295.2	5470.4	5685.9	5828.3	5814.5	5471.6	4823.7	4612.0
20°	5228.4	5286.3	5363.2	5510.7	5761.5	6019.9	6123.3	5885.0	5195.6	4973.7
22.5°	5737.6	5727.5	5735.1	5759.0	5909.0	6164.9	6377.9	6260.7	5563.6	5336.8
25°	6544.3	6498.9	6422.0	6292.2	6254.4	6377.9	6599.7	6593.4	5951.9	5708.6
27.5°	7469.4	7461.9	7281.6	6969.0	6792.6	6744.7	6850.6	6917.4	6336.3	6076.6
30°	8355.5	8375.7	8132.4	7784.5	7460.6	7272.8	7177.0	7224.9	6727.0	6473.7
32.5°	9126.9	9148.4	8883.7	8476.5	8075.7	7848.8	7647.2	7528.7	7153.1	6877.0
35°	9778.6	9800.0	9496.2	9046.3	8619.0	8413.5	8185.4	7861.4	7581.6	7324.5
37.5°	10360.9	10354.6	9947.5	9493.7	9074.0	8911.4	8791.6	8271.1	8022.8	7774.5
40°	10705.0	10731.5	10383.6	9883.2	9476.1	9357.6	9350.0	8779.0	8532.0	8291.2
42.5°	10805.8	10852.5	10600.4	10189.5	9820.2	9691.6	9889.5	9328.6	9124.4	8890.0
45°	10624.3	10669.7	10555.0	10270.2	10054.6	9971.4	10353.3	9898.3	9757.2	9525.2
47.5°	10095.0	10151.7	10179.4	10118.9	10116.4	10200.8	10769.3	10498.3	10508.4	10271.4
50°	9070.2	9166.0	9420.6	9634.9	9966.4	10382.3	11173.9	11148.7	11355.4	11151.2
52.5°	7207.3	7343.4	8220.7	8806.8	9551.7	10348.3	11618.8	12192.3	12841.5	12542.7
55°	5791.8	5791.8	6505.2	7601.8	8742.5	10123.9	11812.9	12870.5	13853.6	13783.0
57.5°	4721.6	4778.4	5233.4	6202.7	7571.5	9589.5	11932.7	13296.5	14669.1	14617.5
60°	2914.2	3036.4	3896.1	4852.7	6239.2	8637.9	11857.1	13727.6	15658.6	15700.2
62.5°	1641.1	1686.5	2069.7	3491.4	4851.5	7358.5	11278.5	13968.3	16924.1	17100.5
65°	1133.1	1155.8	1303.3	2173.0	3362.9	5858.6	10147.9	13818.3	18192.1	18548.8
67.5°	823.1	834.4	926.4	1327.3	1995.3	4247.7	8375.7	13062.1	18863.9	19460.1
70°	632.7	640.3	707.1	872.2	1178.5	2621.7	6082.9	11558.3	18377.4	19089.5
72.5°	514.3	521.8	573.5	645.4	781.5	1550.4	3686.8	9386.6	16229.6	16998.4
75°	433.6	443.7	490.3	537.0	612.6	995.8	1729.3	6536.7	12204.9	12709.1
77.5°	240.7	221.8	398.3	444.9	516.8	630.2	809.2	3846.9	6835.4	6975.3
80°	150.0	155.0	316.4	358.0	397.0	317.6	370.6	1481.0	2369.6	2251.2
82.5°	8.8	20.2	243.3	258.4	272.3	136.1	139.9	502.9	571.0	524.3
85°	0.0	0.0	110.9	89.5	94.5	39.1	40.3	117.2	76.9	83.2
87.5°	0.0	0.0	0.0	2.5	0.0	3.8	7.6	10.1	3.8	5.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2340.7	0°	2340.7	2340.7	2340.7	2340.7	2340.7	2340.7	2340.7	2340.7	2340.7	2340.7
2460.4	2.5°	2372.2	2283.9	2105.0	1929.8	1787.3	1655.0	1560.4	1470.9	1425.6	1423.0
2619.2	5°	2444.0	2258.7	1900.8	1584.4	1329.8	1125.6	993.2	898.7	850.8	834.4
2814.6	7.5°	2544.9	2266.3	1721.8	1281.9	981.9	806.7	731.1	700.8	690.7	679.4
3035.2	10°	2672.2	2283.9	1561.7	1032.3	773.9	685.7	655.4	642.8	635.3	627.7
3283.5	12.5°	2814.6	2300.3	1402.9	857.1	680.6	635.3	613.8	598.7	588.6	579.8
3538.1	15°	2953.2	2310.4	1237.8	734.8	632.7	596.2	573.5	557.1	543.3	533.2
3787.7	17.5°	3090.6	2324.3	1082.7	661.7	593.7	557.1	534.4	514.3	502.9	491.6
4049.8	20°	3243.1	2321.8	936.5	610.1	554.6	518.0	494.1	475.2	463.8	451.2
4327.1	22.5°	3384.3	2309.1	807.9	565.9	514.3	479.0	452.5	433.6	422.3	412.2
4610.7	25°	3546.9	2299.1	700.8	525.6	476.5	441.2	412.2	394.5	381.9	373.1
4895.6	27.5°	3703.2	2283.9	622.7	489.1	439.9	405.9	378.1	358.0	346.6	340.3
5189.3	30°	3857.0	2280.2	593.7	453.8	407.1	373.1	345.4	326.5	317.6	315.1
5512.0	32.5°	4042.3	2290.2	606.3	441.2	376.9	342.8	316.4	302.5	293.7	293.7
5871.2	35°	4240.2	2287.7	625.2	452.5	356.7	312.6	292.4	283.6	274.8	274.8
6269.5	37.5°	4488.5	2291.5	640.3	471.4	349.1	287.4	276.0	264.7	259.7	259.7
6705.6	40°	4859.0	2416.3	632.7	487.8	346.6	269.7	247.0	243.3	239.5	239.5
7198.4	42.5°	5312.8	2687.3	642.8	489.1	345.4	257.1	226.9	234.4	225.6	224.4
7754.3	45°	5809.4	2983.5	707.1	462.6	344.1	250.8	216.8	225.6	211.8	211.8
8398.4	47.5°	6302.3	3277.2	772.7	424.8	340.3	249.6	208.0	202.9	199.2	200.4
9237.8	50°	6981.6	3516.7	797.9	373.1	331.5	247.0	191.6	192.8	190.3	192.8
10421.4	52.5°	7721.5	3567.1	767.6	315.1	306.3	239.5	180.2	185.3	184.0	186.5
11254.6	55°	8182.8	3512.9	634.0	262.2	267.2	209.2	168.9	179.0	179.0	179.0
12068.8	57.5°	8659.3	3282.2	450.0	213.0	221.8	171.4	158.8	172.7	171.4	170.2
13049.5	60°	9002.1	2909.1	296.2	175.2	176.5	141.2	147.5	162.6	161.3	155.0
14060.3	62.5°	9258.0	2497.0	190.3	148.7	134.9	127.3	134.9	147.5	142.4	128.6
14917.4	65°	9229.0	1926.0	146.2	127.3	110.9	110.9	117.2	128.6	113.4	90.8
15081.3	67.5°	8690.8	1303.3	121.0	107.1	93.3	92.0	97.1	107.1	97.1	76.9
14241.8	70°	7729.1	852.1	97.1	83.2	74.4	68.1	78.1	92.0	81.9	61.8
12124.3	72.5°	6273.3	519.3	73.1	60.5	54.2	44.1	61.8	75.6	65.5	45.4
8431.2	75°	4058.7	264.7	50.4	39.1	29.0	26.5	45.4	56.7	45.4	27.7
3741.0	77.5°	1552.9	110.9	27.7	17.6	15.1	12.6	25.2	34.0	18.9	6.3
724.8	80°	298.7	46.6	13.9	8.8	7.6	5.0	3.8	2.5	0.0	0.0
128.6	82.5°	51.7	15.1	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
25.2	85°	17.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.8	87.5°	6.3	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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180°
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2340.7
1420.5
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450.0
410.9
371.8
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313.9
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