

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: P951840

Luminaire Tested: **GALN-SB5D-840-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951840
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-SB5D-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 900mA 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: 40935 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

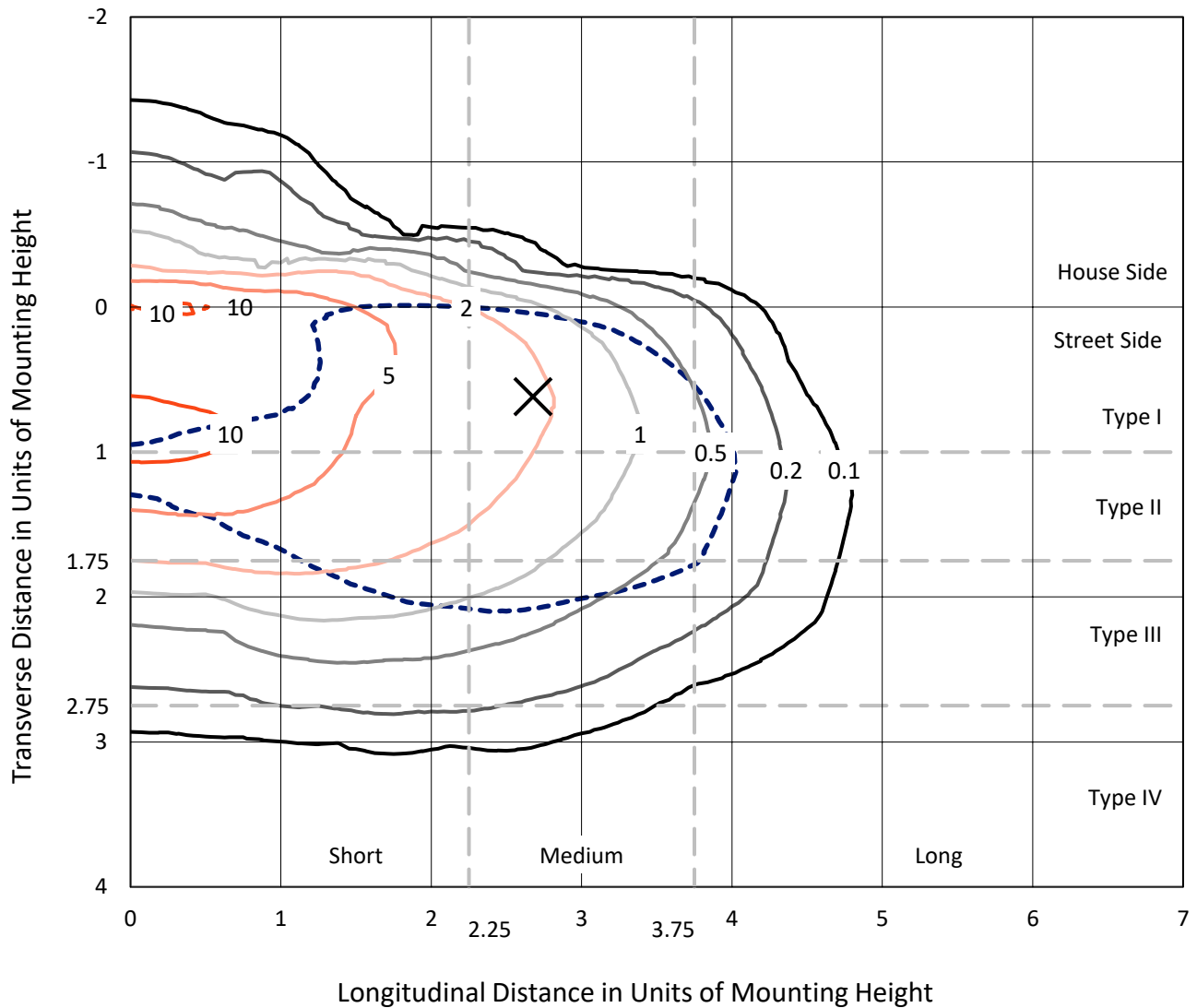
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

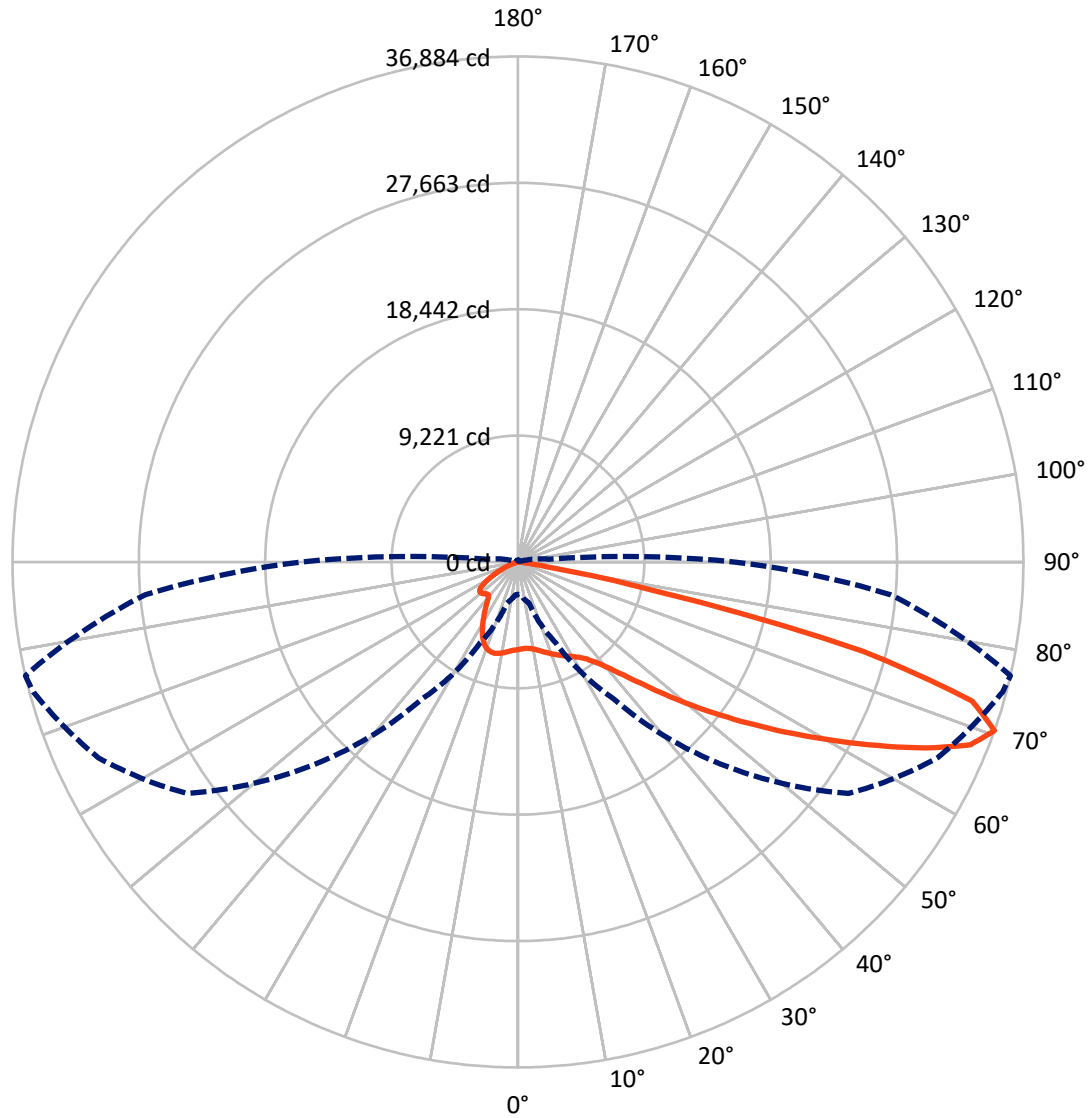
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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	4315.1	0.0	4315.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	36619.9	0.0	36619.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	40935.0	0.0	40935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.3	1.3
10°-20°	1306.3	3.2
20°-30°	2020.5	4.9
30°-40°	3666.4	9.0
40°-50°	6920.8	16.9
50°-60°	9999.9	24.4
60°-70°	10644.6	26.0
70°-80°	5640.9	13.8
80°-90°	185.2	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°	40935.0	100.0
0°-180°	40935.0	100.0

Coefficient of Utilization



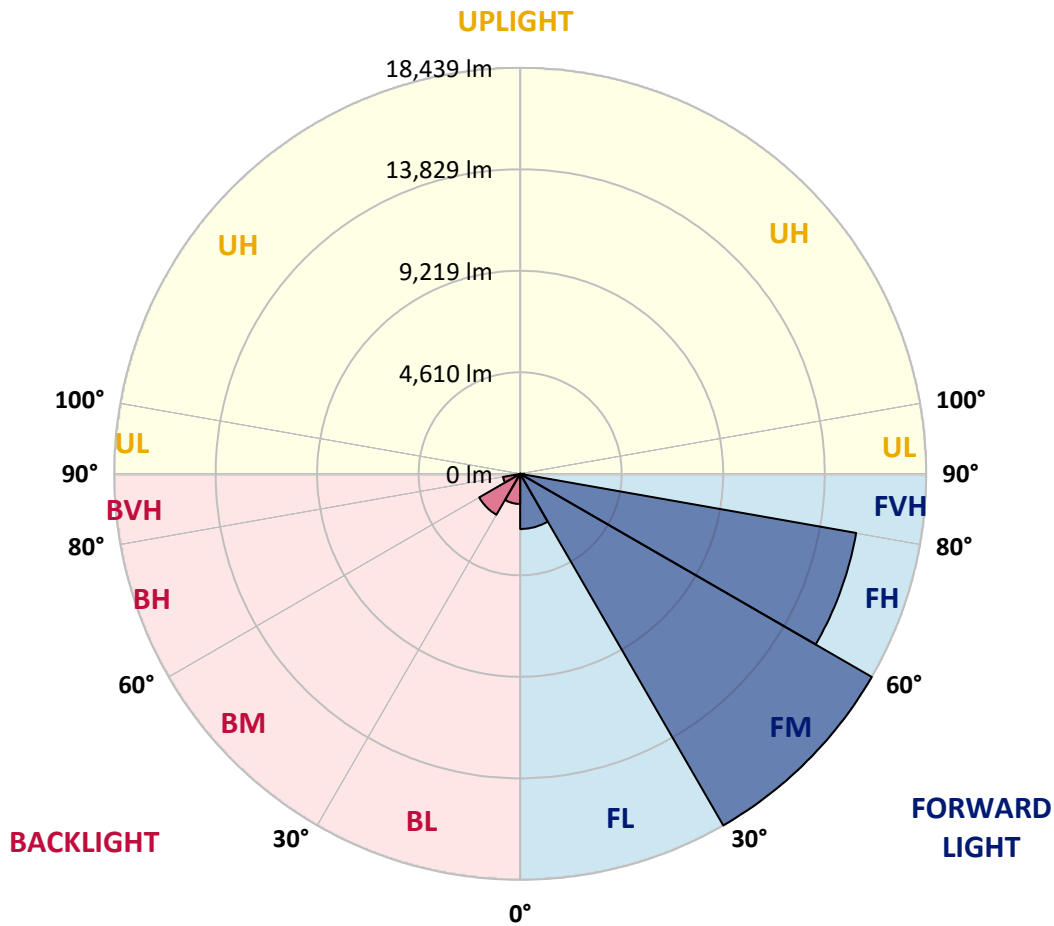
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2506.2	6.1			
FM (30°-60°)	18439.0	45.0			
FH (60°-80°)	15494.5	37.9			G5
FVH (80°-90°)	180.2	0.4			G2/225
BL (0°-30°)	1371.0	3.3	B3/2500		
BM (30°-60°)	2148.1	5.2	B2/2500		
BH (60°-80°)	791.1	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.0	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°	6385.1	6385.1	6385.1	6385.1	6385.1	6385.1	6385.1	6385.1	6385.1	6385.1
2.5°	5994.8	6049.1	6041.3	6077.5	6090.4	6142.1	6193.8	6263.6	6341.2	6338.6
5°	5656.1	5710.4	5723.3	5772.5	5834.5	5914.6	6020.6	6160.2	6305.0	6328.2
7.5°	5255.4	5312.3	5345.9	5444.2	5557.9	5723.3	5896.5	6100.8	6341.2	6374.8
10°	4854.8	4906.5	4950.4	5090.0	5271.0	5516.5	5798.3	6093.0	6416.1	6465.3
12.5°	4606.6	4655.7	4704.8	4826.3	5051.2	5351.1	5733.7	6129.2	6540.2	6610.0
15°	4518.7	4562.6	4601.4	4710.0	4919.4	5260.6	5720.8	6204.2	6697.9	6791.0
17.5°	4531.6	4554.9	4580.7	4663.5	4867.7	5219.3	5744.0	6333.4	6884.0	6966.8
20°	4606.6	4619.5	4622.1	4679.0	4859.9	5214.1	5790.6	6457.5	7059.8	7171.0
22.5°	4702.2	4707.4	4702.2	4741.0	4909.0	5252.9	5852.6	6607.4	7256.3	7359.7
25°	5149.5	5051.2	4927.1	4852.2	4991.8	5327.8	5945.7	6809.1	7470.8	7571.7
27.5°	6537.6	6255.9	5811.2	5312.3	5162.4	5436.4	6074.9	7013.3	7688.0	7778.5
30°	8791.8	8422.2	7667.3	6542.8	5710.4	5663.9	6242.9	7217.5	7918.1	8016.3
32.5°	11051.2	10960.7	10089.5	8533.3	6943.5	6170.6	6522.1	7494.1	8223.1	8300.7
35°	13336.4	13152.8	12439.4	10901.2	8843.5	7202.0	6987.4	7856.0	8623.8	8711.7
37.5°	15086.5	14975.3	14533.3	13266.6	11097.7	8794.4	7783.6	8417.0	9205.4	9303.7
40°	16632.3	16580.6	16430.7	15595.7	13618.1	10878.0	9021.9	9285.6	10012.0	10128.3
42.5°	17847.3	17968.8	18054.1	17821.5	16216.1	13256.2	10686.7	10505.7	11136.5	11255.4
45°	19090.7	19132.1	19475.9	19812.0	18796.0	15743.1	12563.4	11935.3	12535.0	12682.3
47.5°	19889.5	20055.0	20659.9	21251.9	20964.9	18209.2	14579.8	13623.3	14155.8	14432.4
50°	19949.0	20261.8	21094.2	22125.6	22544.4	20556.5	16771.9	15546.6	16112.7	16417.8
52.5°	18958.9	19444.9	20734.8	22244.5	23397.5	22544.4	19039.0	17469.9	18196.3	18594.4
55°	14535.8	15171.8	19382.8	21598.3	23431.1	24051.5	21246.7	19473.3	20517.7	20967.5
57.5°	12664.3	12984.8	15239.0	20476.3	22808.1	24659.0	23242.4	21381.1	23043.3	23601.7
60°	10536.7	10958.1	12780.6	18640.9	21962.7	24718.4	25005.4	23842.1	25780.9	26409.1
62.5°	7160.6	7618.2	9430.3	15487.1	20807.2	24690.0	26450.4	26375.5	28823.5	29498.2
65°	4436.0	4722.9	5917.2	12646.2	19191.6	24721.0	27962.7	29451.7	32034.2	32719.2
67.5°	3505.4	3637.2	4260.2	9709.5	16407.4	24023.0	29472.4	32344.4	35056.1	35599.0
70°	2355.0	2435.1	3099.5	6509.2	12206.7	20802.1	29443.9	33797.2	36612.3	36883.8
72.5°	1240.8	1302.9	1812.1	3014.2	7372.6	14786.6	24819.2	32060.0	35063.9	34655.4
75°	620.4	723.8	1220.2	1530.4	3148.6	8246.4	15412.2	25276.8	27598.2	26016.1
77.5°	470.5	568.7	1008.2	1008.2	1096.1	2776.4	6527.3	13786.2	12716.0	10588.4
80°	299.9	387.8	881.5	762.6	457.6	705.7	1701.0	3862.1	2701.4	2055.1
82.5°	175.8	253.3	734.2	504.1	255.9	261.1	480.8	822.1	700.6	545.4
85°	69.8	165.4	504.1	199.1	100.8	64.6	144.8	175.8	144.8	108.6
87.5°	0.0	38.8	87.9	0.0	7.8	5.2	10.3	12.9	12.9	10.3
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°
6385.1	0°	6385.1	6385.1	6385.1	6385.1	6385.1	6385.1	6385.1	6385.1	6385.1	6385.1
6390.3	2.5°	6413.6	6418.7	6434.2	6436.8	6400.6	6354.1	6336.0	6328.2	6297.2	6294.6
6431.7	5°	6491.1	6514.4	6491.1	6423.9	6263.6	6038.7	5868.1	5728.5	5601.8	5563.1
6573.8	7.5°	6646.2	6669.5	6599.7	6336.0	5932.7	5485.5	5082.2	4797.9	4542.0	4446.3
6747.0	10°	6868.5	6899.5	6679.8	6147.3	5433.8	4715.2	4032.7	3551.9	3177.0	3024.5
6982.3	12.5°	7147.7	7160.6	6723.8	5860.4	4785.0	3758.7	2791.9	2277.4	1944.0	1819.9
7266.6	15°	7455.3	7437.2	6728.9	5470.0	3900.9	2657.5	1822.5	1496.8	1362.3	1321.0
7551.0	17.5°	7778.5	7703.5	6625.5	4906.5	2931.5	1817.3	1352.0	1274.4	1251.2	1240.8
7832.8	20°	8096.4	7928.4	6436.8	4169.7	2104.2	1357.2	1227.9	1204.6	1191.7	1186.5
8117.1	22.5°	8386.0	8099.0	6113.7	3314.1	1527.8	1199.5	1160.7	1140.0	1116.7	1106.4
8393.7	25°	8667.7	8197.3	5658.7	2515.3	1222.7	1121.9	1090.9	1052.1	1021.1	1008.2
8691.0	27.5°	8941.8	8259.3	5090.0	1861.2	1090.9	1049.5	992.7	938.4	915.1	909.9
9009.0	30°	9233.9	8280.0	4443.7	1388.2	1010.8	959.1	876.3	814.3	801.4	804.0
9438.1	32.5°	9590.6	8311.0	3792.3	1137.4	943.6	850.5	752.3	687.6	677.3	687.6
10063.7	35°	10017.1	8373.0	3164.1	1047.0	884.1	739.3	633.3	579.1	568.7	576.5
10865.0	37.5°	10596.2	8473.9	2577.3	1028.9	835.0	646.3	532.5	488.6	488.6	491.2
11847.4	40°	11366.5	8742.7	2052.5	1015.9	809.1	576.5	449.8	431.7	439.5	444.6
13098.5	42.5°	12304.9	9314.0	1698.4	1000.4	780.7	545.4	408.4	400.7	413.6	418.8
14597.9	45°	13357.1	10037.8	1574.3	974.6	754.8	566.1	390.3	380.0	395.5	398.1
16278.2	47.5°	14445.4	10746.1	1558.8	946.1	729.0	597.2	385.2	361.9	380.0	382.6
18072.2	50°	15546.6	11208.9	1574.3	902.2	687.6	597.2	387.8	343.8	359.3	367.1
19933.5	52.5°	16655.6	11420.8	1564.0	806.5	615.2	561.0	387.8	328.3	343.8	349.0
21944.7	55°	17731.0	11379.5	1406.3	664.4	522.2	496.3	377.4	315.4	325.7	328.3
23844.7	57.5°	18581.5	10803.0	1114.2	517.0	424.0	413.6	343.8	299.9	307.6	305.0
25587.0	60°	19026.1	9536.3	796.2	398.1	333.5	325.7	302.5	279.2	284.4	271.4
27063.1	62.5°	19031.3	7861.2	532.5	315.4	266.3	258.5	258.5	250.8	245.6	219.7
28205.7	65°	18625.4	6002.5	354.2	250.8	214.6	201.6	217.1	214.6	196.5	160.3
28554.7	67.5°	17705.1	3934.5	268.8	196.5	165.4	157.7	173.2	181.0	168.0	134.4
27282.8	70°	15812.9	2290.4	222.3	152.5	124.1	116.3	139.6	155.1	139.6	108.6
23319.9	72.5°	13134.7	1235.7	181.0	113.7	85.3	77.6	111.2	126.7	111.2	80.1
14962.4	75°	8523.0	661.8	139.6	75.0	43.9	49.1	82.7	93.1	77.6	51.7
4392.0	77.5°	2861.7	292.1	87.9	36.2	20.7	20.7	49.1	56.9	36.2	18.1
798.8	80°	638.5	121.5	36.2	15.5	7.8	7.8	10.3	10.3	5.2	0.0
245.6	82.5°	209.4	49.1	15.5	5.2	0.0	0.0	0.0	0.0	0.0	0.0
62.0	85°	80.1	18.1	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.7	87.5°	31.0	2.6	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°
6385.1
6299.8
5539.8
4407.5
2959.9
1781.1
1321.0
1238.2
1181.4
1103.8
1003.0
904.8
804.0
685.0
573.9
488.6
444.6
418.8
400.7
385.2
369.7
349.0
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305.0
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