

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: P953205

Luminaire Tested: **GALN-SB6D-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953205
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-SB6D-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 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: 44673 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

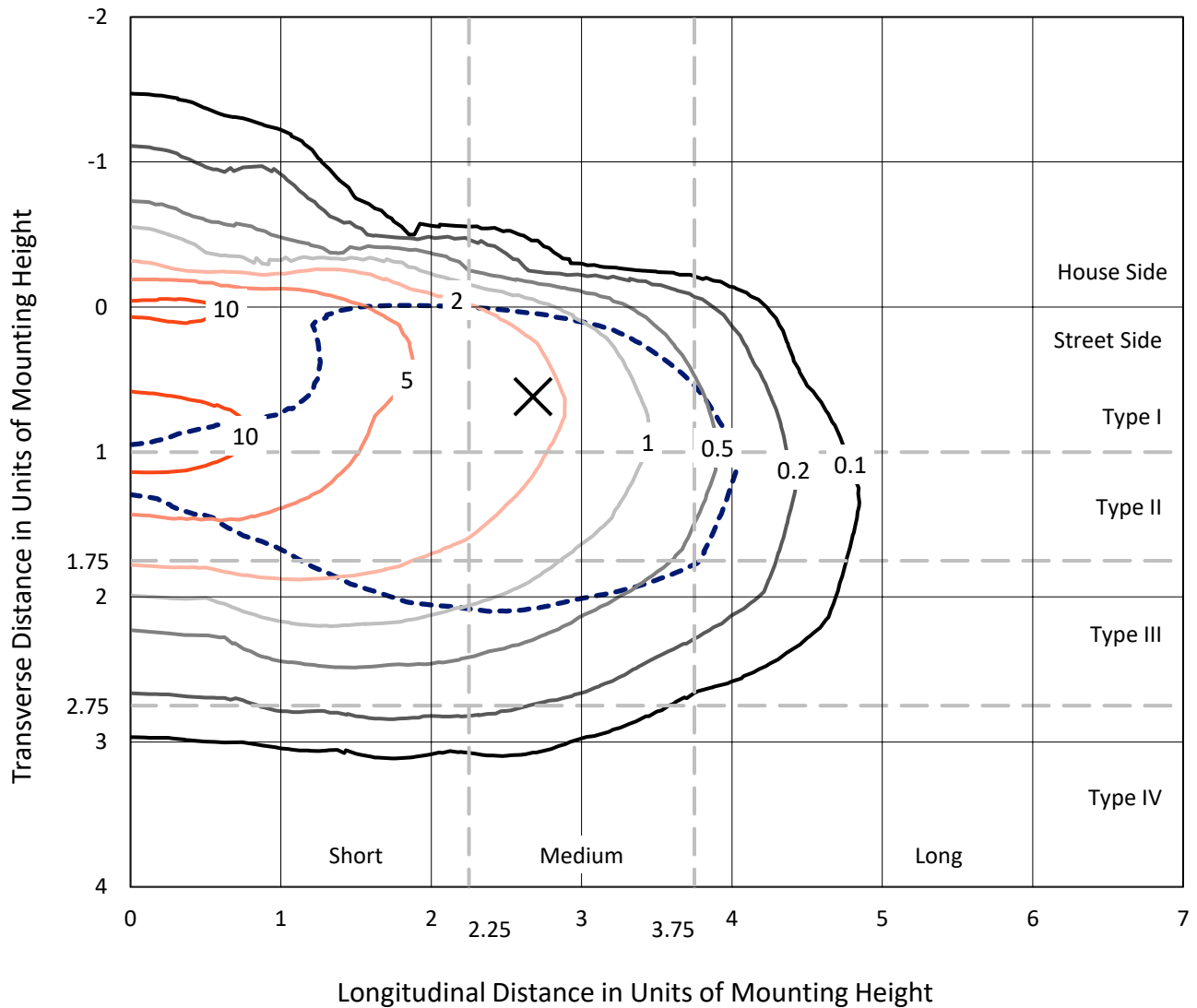
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

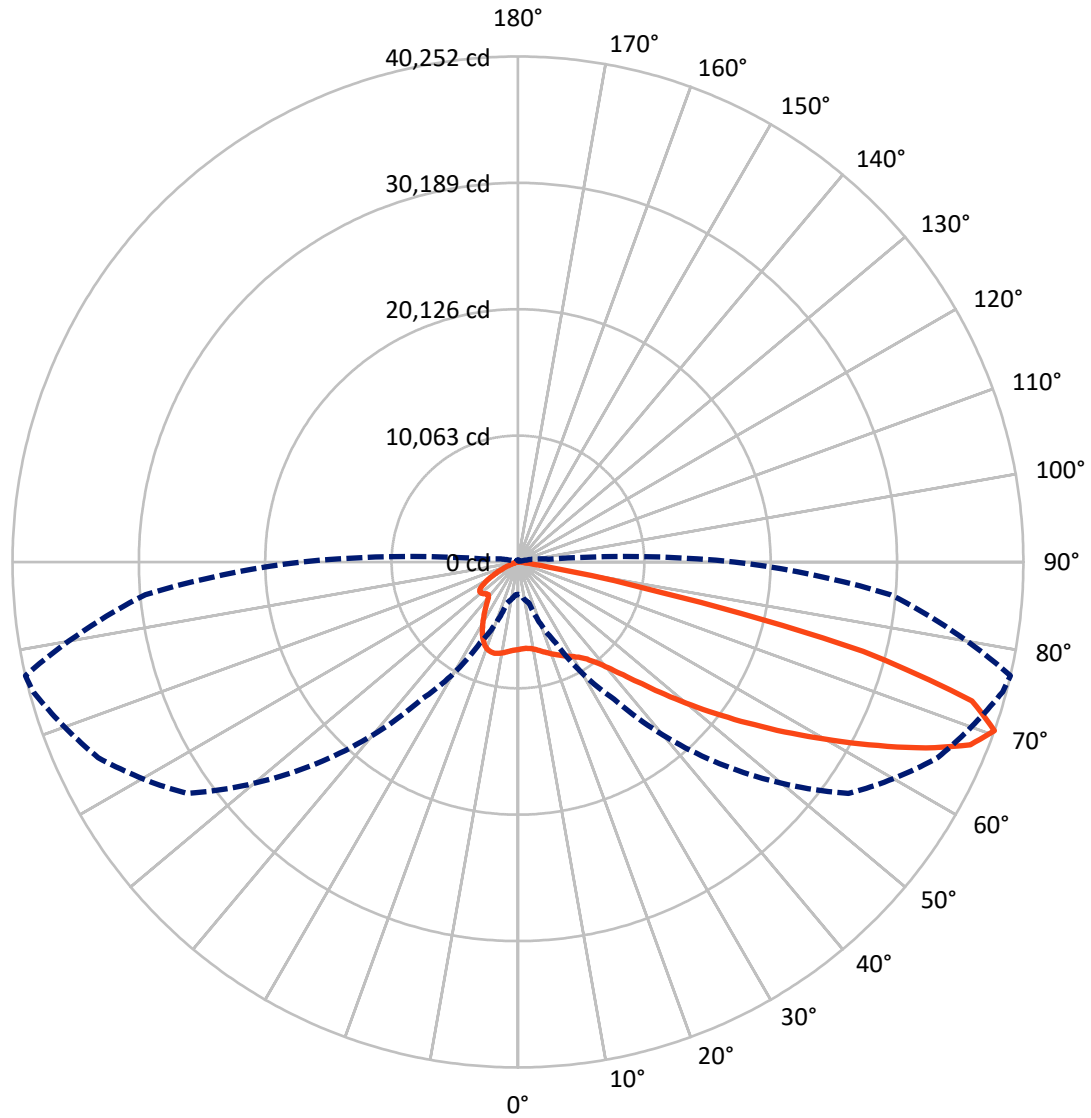
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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	4709.2	0.0	4709.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	39963.8	0.0	39963.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	44673.0	0.0	44673.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.5	1.3
10°-20°	1425.6	3.2
20°-30°	2205.0	4.9
30°-40°	4001.2	9.0
40°-50°	7552.7	16.9
50°-60°	10913.1	24.4
60°-70°	11616.7	26.0
70°-80°	6156.0	13.8
80°-90°	202.1	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°	44673.0	100.0
0°-180°	44673.0	100.0

Coefficient of Utilization



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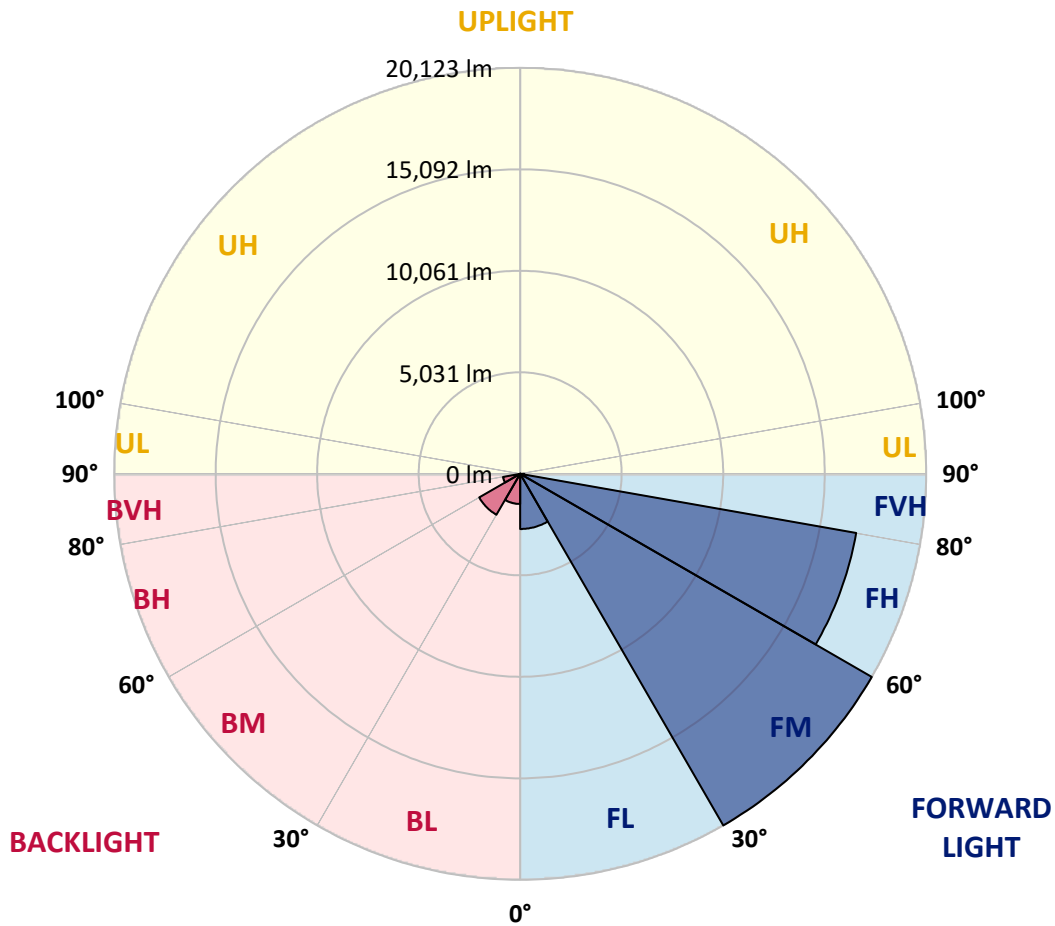
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2735.0	6.1			
FM (30°-60°)	20122.7	45.0			
FH (60°-80°)	16909.4	37.9			G5
FVH (80°-90°)	196.7	0.4			G2/225
BL (0°-30°)	1496.2	3.3	B3/2500		
BM (30°-60°)	2344.2	5.2	B2/2500		
BH (60°-80°)	863.3	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.4	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°	6968.2	6968.2	6968.2	6968.2	6968.2	6968.2	6968.2	6968.2	6968.2	6968.2
2.5°	6542.2	6601.4	6593.0	6632.5	6646.6	6703.0	6759.4	6835.6	6920.2	6917.4
5°	6172.6	6231.9	6246.0	6299.6	6367.3	6454.7	6570.4	6722.7	6880.7	6906.1
7.5°	5735.3	5797.4	5834.1	5941.3	6065.4	6246.0	6435.0	6657.9	6920.2	6956.9
10°	5298.1	5354.5	5402.5	5554.8	5752.3	6020.3	6327.8	6649.4	7002.0	7055.6
12.5°	5027.2	5080.8	5134.4	5267.0	5512.5	5839.7	6257.3	6688.9	7137.4	7213.6
15°	4931.3	4979.3	5021.6	5140.1	5368.6	5741.0	6243.2	6770.7	7309.5	7411.1
17.5°	4945.4	4970.8	4999.0	5089.3	5312.2	5695.9	6268.5	6911.8	7512.7	7602.9
20°	5027.2	5041.4	5044.2	5106.2	5303.7	5690.2	6319.3	7047.2	7704.5	7825.8
22.5°	5131.6	5137.3	5131.6	5173.9	5357.3	5732.5	6387.0	7210.8	7918.9	8031.7
25°	5619.7	5512.5	5377.1	5295.3	5447.6	5814.3	6488.6	7430.8	8153.1	8263.1
27.5°	7134.6	6827.1	6341.9	5797.4	5633.8	5932.8	6629.6	7653.7	8390.0	8488.8
30°	9594.6	9191.2	8367.5	7140.3	6231.9	6181.1	6813.0	7876.6	8641.1	8748.3
32.5°	12060.3	11961.6	11010.9	9312.5	7577.5	6734.0	7117.7	8178.4	8974.0	9058.6
35°	14554.2	14353.9	13575.3	11896.7	9651.1	7859.7	7625.5	8573.4	9411.3	9507.2
37.5°	16464.1	16342.8	15860.4	14478.0	12111.1	9597.5	8494.4	9185.6	10046.0	10153.2
40°	18151.1	18094.7	17931.1	17019.9	14861.7	11871.3	9845.7	10133.5	10926.2	11053.2
42.5°	19477.1	19609.6	19702.7	19448.8	17696.9	14466.7	11662.5	11465.1	12153.4	12283.2
45°	20834.0	20879.2	21254.4	21621.1	20512.4	17180.7	13710.7	13025.1	13679.6	13840.4
47.5°	21705.7	21886.3	22546.4	23192.5	22879.3	19872.0	15911.2	14867.3	15448.5	15750.3
50°	21770.6	22112.0	23020.4	24146.0	24603.0	22433.6	18303.5	16966.3	17584.1	17917.0
52.5°	20690.1	21220.5	22628.3	24275.8	25534.0	24603.0	20777.6	19065.2	19857.9	20292.4
55°	15863.2	16557.2	21152.8	23570.5	25570.7	26247.8	23186.8	21251.5	22391.3	22882.2
57.5°	13820.7	14170.5	16630.5	22346.1	24890.8	26910.7	25364.7	23333.5	25147.5	25756.9
60°	11498.9	11958.8	13947.6	20343.1	23968.3	26975.6	27288.8	26019.2	28135.1	28820.6
62.5°	7814.5	8313.9	10291.5	16901.4	22707.2	26944.6	28865.8	28783.9	31455.6	32191.9
65°	4841.1	5154.2	6457.6	13800.9	20944.0	26978.4	30516.1	32141.1	34959.4	35707.0
67.5°	3825.4	3969.3	4649.2	10596.1	17905.7	26216.7	32163.7	35297.9	38257.3	38849.7
70°	2570.0	2657.5	3382.5	7103.6	13321.4	22701.6	32132.6	36883.4	39955.6	40251.8
72.5°	1354.1	1421.8	1977.6	3289.4	8045.9	16136.8	27085.6	34987.6	38265.8	37820.0
75°	677.1	789.9	1331.6	1670.1	3436.1	8999.4	16819.6	27585.0	30118.3	28391.8
77.5°	513.4	620.6	1100.2	1100.2	1196.2	3029.9	7123.3	15045.1	13877.1	11555.3
80°	327.3	423.2	962.0	832.2	499.3	770.2	1856.3	4214.8	2948.1	2242.8
82.5°	191.8	276.5	801.2	550.1	279.3	284.9	524.7	897.1	764.5	595.3
85°	76.2	180.6	550.1	217.2	110.0	70.5	158.0	191.8	158.0	118.5
87.5°	0.0	42.3	95.9	0.0	8.5	5.6	11.3	14.1	14.1	11.3
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°
6968.2	0°	6968.2	6968.2	6968.2	6968.2	6968.2	6968.2	6968.2	6968.2	6968.2	6968.2
6973.8	2.5°	6999.2	7004.9	7021.8	7024.6	6985.1	6934.3	6914.6	6906.1	6872.3	6869.4
7019.0	5°	7083.8	7109.2	7083.8	7010.5	6835.6	6590.2	6404.0	6251.6	6113.4	6071.1
7174.1	7.5°	7253.1	7278.5	7202.3	6914.6	6474.5	5986.4	5546.3	5236.0	4956.7	4852.3
7363.1	10°	7495.7	7529.6	7289.8	6708.6	5930.0	5145.7	4401.0	3876.2	3467.2	3300.7
7619.9	12.5°	7800.4	7814.5	7337.7	6395.5	5221.9	4101.9	3046.8	2485.4	2121.5	1986.1
7930.2	15°	8136.1	8116.4	7343.4	5969.5	4257.1	2900.1	1988.9	1633.4	1486.7	1441.6
8240.5	17.5°	8488.8	8407.0	7230.5	5354.5	3199.2	1983.3	1475.4	1390.8	1365.4	1354.1
8548.0	20°	8835.8	8652.4	7024.6	4550.5	2296.4	1481.1	1340.0	1314.6	1300.5	1294.9
8858.3	22.5°	9151.7	8838.6	6672.0	3616.7	1667.3	1309.0	1266.7	1244.1	1218.7	1207.4
9160.2	25°	9459.2	8945.8	6175.4	2745.0	1334.4	1224.4	1190.5	1148.2	1114.3	1100.2
9484.6	27.5°	9758.3	9013.5	5554.8	2031.2	1190.5	1145.4	1083.3	1024.1	998.7	993.0
9831.6	30°	10077.1	9036.1	4849.5	1514.9	1103.1	1046.6	956.4	888.7	874.5	877.4
10299.9	32.5°	10466.4	9069.9	4138.6	1241.3	1029.7	928.2	820.9	750.4	739.1	750.4
10982.6	35°	10931.9	9137.6	3453.1	1142.6	964.8	806.8	691.2	631.9	620.6	629.1
11857.2	37.5°	11563.8	9247.7	2812.7	1122.8	911.2	705.3	581.2	533.2	533.2	536.0
12929.2	40°	12404.5	9541.0	2240.0	1108.7	883.0	629.1	490.9	471.1	479.6	485.2
14294.6	42.5°	13428.6	10164.5	1853.5	1091.8	852.0	595.3	445.7	437.3	451.4	457.0
15930.9	45°	14576.8	10954.4	1718.1	1063.6	823.8	617.8	426.0	414.7	431.6	434.5
17764.6	47.5°	15764.5	11727.4	1701.1	1032.5	795.6	651.7	420.3	395.0	414.7	417.5
19722.5	50°	16966.3	12232.4	1718.1	984.6	750.4	651.7	423.2	375.2	392.1	400.6
21753.7	52.5°	18176.5	12463.7	1706.8	880.2	671.4	612.2	423.2	358.3	375.2	380.9
23948.5	55°	19350.1	12418.6	1534.7	725.0	569.9	541.7	411.9	344.2	355.5	358.3
26022.1	57.5°	20278.3	11789.5	1215.9	564.2	462.7	451.4	375.2	327.3	335.7	332.9
27923.5	60°	20763.5	10407.1	868.9	434.5	363.9	355.5	330.1	304.7	310.3	296.2
29534.4	62.5°	20769.1	8579.0	581.2	344.2	290.6	282.1	282.1	273.6	268.0	239.8
30781.3	65°	20326.2	6550.7	386.5	273.6	234.2	220.0	237.0	234.2	214.4	174.9
31162.2	67.5°	19321.9	4293.8	293.4	214.4	180.6	172.1	189.0	197.5	183.4	146.7
29774.2	70°	17256.8	2499.5	242.6	166.4	135.4	127.0	152.3	169.3	152.3	118.5
25449.4	72.5°	14334.1	1348.5	197.5	124.1	93.1	84.6	121.3	138.2	121.3	87.5
16328.7	75°	9301.3	722.2	152.3	81.8	48.0	53.6	90.3	101.6	84.6	56.4
4793.1	77.5°	3123.0	318.8	95.9	39.5	22.6	22.6	53.6	62.1	39.5	19.7
871.7	80°	696.8	132.6	39.5	16.9	8.5	8.5	11.3	11.3	5.6	0.0
268.0	82.5°	228.5	53.6	16.9	5.6	0.0	0.0	0.0	0.0	0.0	0.0
67.7	85°	87.5	19.7	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.6	87.5°	33.9	2.8	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°
6968.2
6875.1
6045.7
4810.0
3230.2
1943.8
1441.6
1351.3
1289.3
1204.6
1094.6
987.4
877.4
747.6
626.3
533.2
485.2
457.0
437.3
420.3
403.4
380.9
358.3
332.9
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