

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: STREETWORKS

Report Number: P849027

Luminaire Tested: **GLAN-SB5D-840-U-T3-HSS**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P849027  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB5D-840-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

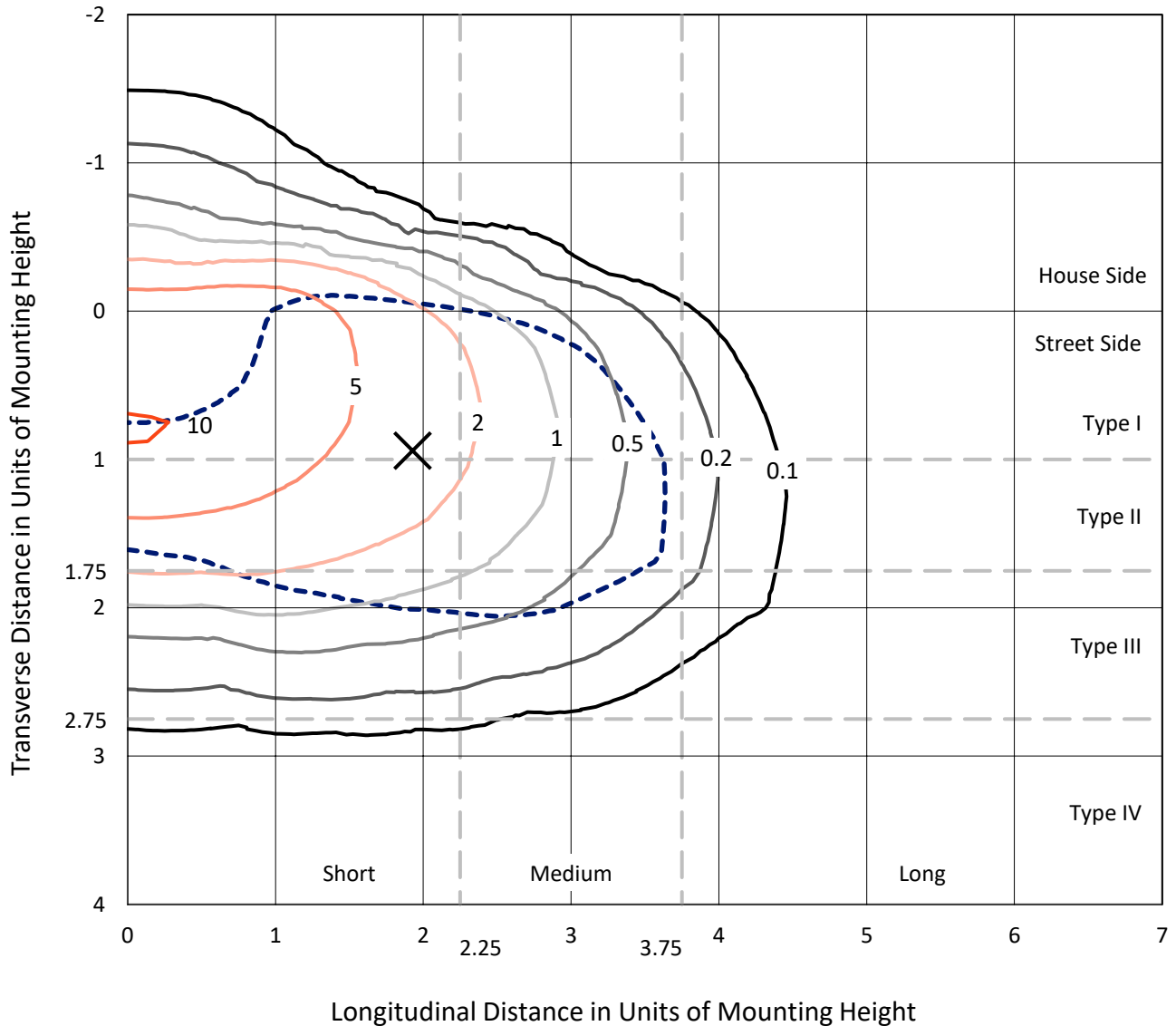
Lumens per Lamp: N/A  
Luminaire Lumens: 35852 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

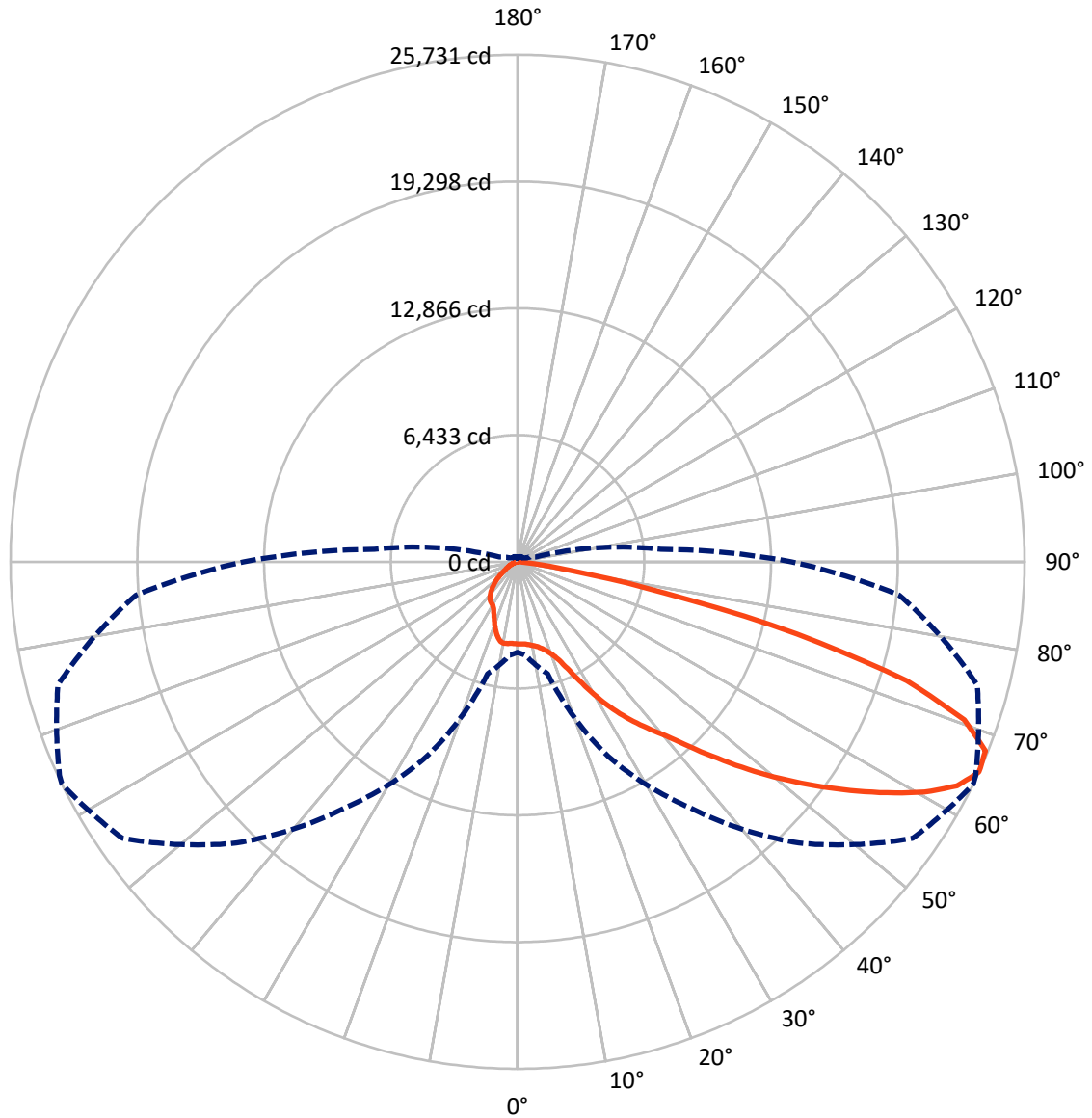
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4794.5	0.0	4794.5
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	31057.5	0.0	31057.5
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	35852.0	0.0	35852.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.7	1.1
10°-20°	1043.5	2.9
20°-30°	1977.3	5.5
30°-40°	4001.1	11.2
40°-50°	6815.9	19.0
50°-60°	9269.1	25.9
60°-70°	8704.2	24.3
70°-80°	3487.3	9.7
80°-90°	168.9	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°	35852.0	100.0
0°-180°	35852.0	100.0

**Coefficient of Utilization**



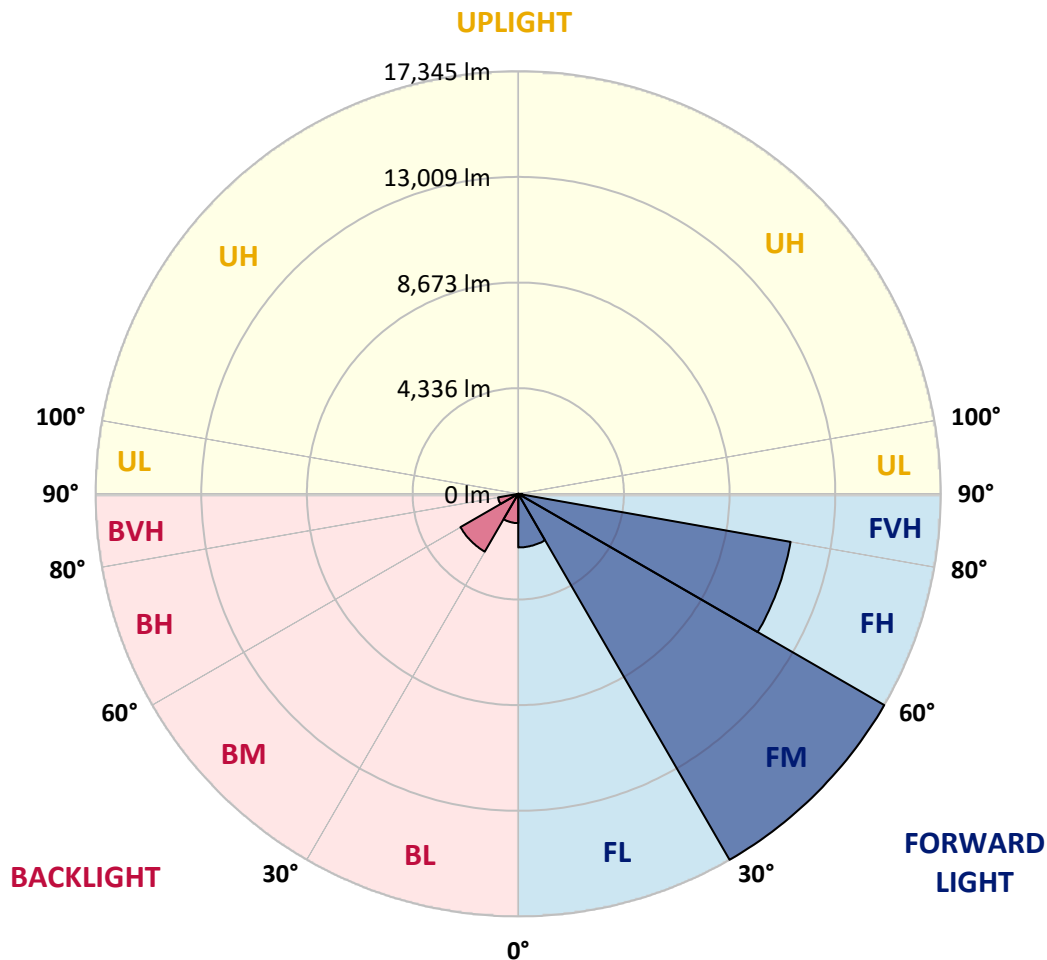
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2201.7	6.1			
FM (30°-60°)	17345.2	48.4			
FH (60°-80°)	11349.9	31.7			G4/12000
FVH (80°-90°)	160.7	0.4			G2/225
BL (0°-30°)	1203.8	3.4	B3/2500		
BM (30°-60°)	2741.0	7.6	B3/5000		
BH (60°-80°)	841.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	8.2	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-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	4170.0	4170.0	4170.0	4170.0	4170.0	4170.0	4170.0	4170.0	4170.0	4170.0
2.5°	4155.5	4184.4	4177.2	4170.0	4167.6	4172.4	4174.8	4172.4	4172.4	4172.4
5°	4076.2	4100.3	4100.3	4117.1	4141.1	4170.0	4191.6	4196.4	4201.2	4208.4
7.5°	3924.8	3944.0	3958.5	4013.7	4073.8	4150.7	4215.6	4249.3	4254.1	4280.5
10°	3821.5	3845.5	3869.5	3927.2	4013.7	4129.1	4239.7	4321.4	4333.4	4395.9
12.5°	3816.7	3840.7	3871.9	3934.4	4035.4	4157.9	4292.5	4410.3	4431.9	4523.3
15°	3867.1	3896.0	3924.8	4001.7	4109.9	4258.9	4403.1	4549.7	4571.3	4701.1
17.5°	3970.5	4008.9	4030.6	4107.5	4222.8	4388.7	4578.5	4746.8	4766.0	4917.4
20°	4174.8	4220.4	4227.6	4290.1	4403.1	4580.9	4806.9	5016.0	5040.0	5213.1
22.5°	4597.8	4662.7	4605.0	4636.2	4737.2	4915.0	5160.2	5424.6	5458.2	5655.3
25°	5342.8	5434.2	5285.2	5232.3	5275.5	5460.6	5768.2	6102.3	6140.8	6299.4
27.5°	6806.5	6688.8	6462.8	6241.7	6111.9	6217.7	6563.8	6977.2	7025.2	7179.1
30°	8414.4	8311.1	8005.8	7515.5	7207.9	7191.1	7510.7	7972.2	8027.5	8174.1
32.5°	10024.7	9926.2	9594.5	8991.3	8457.7	8193.3	8414.4	8926.4	8955.2	9048.9
35°	11608.6	11507.6	11176.0	10558.3	9902.2	9301.3	9258.0	9834.9	9844.5	9943.0
37.5°	13202.1	13117.9	12764.6	12159.0	11512.5	10683.3	10281.9	10695.3	10707.3	10803.4
40°	14338.9	14374.9	14132.2	13663.5	13108.3	12202.2	11430.7	11611.0	11538.9	11699.9
42.5°	15314.7	15386.8	15175.3	14939.8	14617.7	13819.8	12853.6	12822.3	12707.0	12793.5
45°	16158.3	16218.4	16028.5	15973.2	15966.0	15406.0	14408.6	14221.1	14060.1	14043.3
47.5°	16468.3	16583.7	16665.4	16850.5	17211.0	16975.5	16016.5	15725.7	15545.4	15413.2
50°	16586.1	16708.7	16987.5	17525.8	18379.1	18480.0	17617.2	17290.3	17069.2	16828.9
52.5°	16427.5	16646.2	17021.1	17927.2	19165.0	19686.5	19153.0	18867.0	18614.6	18222.8
55°	15492.5	15711.3	16478.0	17922.4	19556.8	20532.5	20604.6	20477.3	20193.7	19576.0
57.5°	13521.7	13846.2	15059.9	17311.9	19549.5	21260.8	22027.5	22118.8	21801.6	20917.1
60°	10791.4	11231.3	12711.8	15958.8	18946.3	21655.0	23274.9	23731.5	23395.0	22239.0
62.5°	7530.0	8039.5	9440.7	13839.0	17566.7	21371.3	24185.8	25029.4	24774.6	23421.5
65°	4593.0	4756.4	5886.0	10890.0	15221.0	20184.0	24467.0	25731.2	25647.1	24144.9
67.5°	3059.6	3196.6	3521.0	7467.5	11815.3	17811.9	23794.0	25608.6	25632.6	24027.1
70°	1843.4	1961.2	2172.7	4343.0	7657.3	14098.6	21710.2	24046.4	24185.8	22452.9
72.5°	759.5	838.8	1031.1	1968.4	3965.7	8948.0	17287.9	20645.5	20970.0	18879.0
75°	430.2	471.1	605.7	987.8	1720.9	4170.0	10471.8	14656.1	15134.4	13012.2
77.5°	286.0	305.2	391.8	639.3	968.6	1422.8	4475.2	7635.7	8549.0	7107.0
80°	192.3	209.1	269.2	427.8	629.7	610.5	1425.2	2828.8	3480.2	2441.9
82.5°	129.8	132.2	192.3	281.2	399.0	295.6	420.6	879.7	1105.6	706.6
85°	74.5	72.1	141.8	163.4	177.9	122.6	127.4	264.4	346.1	298.0
87.5°	9.6	14.4	55.3	43.3	24.0	26.4	26.4	45.7	67.3	72.1
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°
4170.0	0°	4170.0	4170.0	4170.0	4170.0	4170.0	4170.0	4170.0	4170.0	4170.0	4170.0
4174.8	2.5°	4174.8	4172.4	4165.2	4157.9	4141.1	4131.5	4136.3	4131.5	4129.1	4131.5
4206.0	5°	4206.0	4198.8	4179.6	4155.5	4121.9	4081.0	4054.6	4016.1	3980.1	3958.5
4290.1	7.5°	4290.1	4282.9	4256.5	4189.2	4081.0	3910.4	3754.2	3617.2	3513.8	3453.7
4424.7	10°	4424.7	4412.7	4371.8	4222.8	3939.2	3566.7	3256.7	2999.5	2831.2	2751.9
4583.4	12.5°	4583.4	4568.9	4496.8	4191.6	3670.0	3088.4	2660.6	2374.6	2218.4	2148.7
4766.0	15°	4770.8	4751.6	4609.8	4042.6	3278.3	2559.7	2167.9	1954.0	1853.0	1790.6
4999.1	17.5°	5004.0	4970.3	4693.9	3819.1	2852.9	2155.9	1865.1	1704.0	1615.1	1555.0
5304.4	20°	5306.8	5251.5	4761.2	3552.3	2461.1	1901.1	1660.8	1526.2	1458.9	1406.0
5737.0	22.5°	5729.8	5650.5	4842.9	3263.9	2184.7	1725.7	1509.4	1410.8	1355.5	1295.5
6340.3	25°	6253.7	6160.0	4943.9	2997.1	1994.9	1574.2	1398.8	1317.1	1252.2	1182.5
7131.0	27.5°	6986.8	6818.5	5064.0	2778.4	1831.4	1444.5	1297.9	1206.5	1132.0	1074.3
8027.5	30°	7804.0	7527.6	5169.8	2646.2	1682.4	1324.3	1165.7	1074.3	1004.6	963.8
8832.6	32.5°	8577.9	8202.9	5239.5	2588.5	1547.8	1187.3	1021.5	922.9	870.0	858.0
9621.0	35°	9308.5	8813.4	5232.3	2533.2	1427.6	1050.3	879.7	778.7	737.9	745.1
10469.4	37.5°	10149.7	9464.7	5181.8	2446.7	1329.1	925.3	757.1	668.2	632.1	634.5
11500.4	40°	11127.9	10217.0	5150.6	2283.3	1220.9	810.0	656.1	584.0	557.6	548.0
12586.8	42.5°	12171.0	10945.2	5155.4	2098.2	1086.4	706.6	586.4	526.4	502.3	495.1
13795.7	45°	13218.9	11639.8	5162.6	1905.9	944.5	627.3	536.0	485.5	471.1	461.5
15021.5	47.5°	14204.3	12231.1	5028.0	1699.2	805.2	567.2	495.1	461.5	449.4	437.4
16252.0	50°	15122.4	12625.2	4703.5	1458.9	694.6	519.1	463.9	439.8	427.8	415.8
17367.2	52.5°	15836.2	12687.7	4167.6	1211.3	617.7	483.1	444.6	423.0	408.6	396.6
18268.5	55°	16153.5	12296.0	3405.7	980.6	557.6	451.8	425.4	403.8	387.0	374.9
18977.5	57.5°	16071.8	11471.6	2655.8	788.3	499.9	420.6	401.4	387.0	367.7	348.5
19551.9	60°	15670.4	10368.4	2002.1	656.1	447.0	387.0	374.9	362.9	336.5	307.6
19773.1	62.5°	14975.8	8981.6	1427.6	543.2	389.4	348.5	343.7	334.1	295.6	242.7
19446.2	65°	13913.5	7296.8	961.4	451.8	334.1	305.2	307.6	290.8	240.3	180.3
18249.3	67.5°	12360.9	5335.6	615.3	370.1	278.8	254.8	257.2	247.6	204.3	153.8
15980.4	70°	10382.8	3533.0	401.4	281.2	223.5	197.1	211.5	213.9	173.0	125.0
12264.7	72.5°	7611.7	2086.2	281.2	209.1	163.4	137.0	173.0	177.9	139.4	93.7
7378.5	75°	4338.2	990.2	211.5	151.4	100.9	96.1	134.6	134.6	96.1	62.5
3194.2	77.5°	1821.8	413.4	149.0	98.5	57.7	55.3	91.3	84.1	48.1	28.8
778.7	80°	526.4	185.1	79.3	48.1	24.0	21.6	36.1	26.4	12.0	4.8
295.6	82.5°	206.7	81.7	31.2	19.2	9.6	9.6	4.8	0.0	0.0	0.0
168.2	85°	122.6	33.6	14.4	7.2	2.4	0.0	0.0	0.0	0.0	0.0
36.1	87.5°	31.2	7.2	4.8	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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4170.0
4141.1
3963.3
3456.1
2744.7
2141.5
1793.0
1550.2
1396.4
1285.8
1175.3
1062.3
956.6
865.2
745.1
644.1
545.6
492.7
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437.4
415.8
394.2
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