

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: P852988

Luminaire Tested: **GLAN-SB7D-850-U-T4FT-HSS**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB7D-850-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47048 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

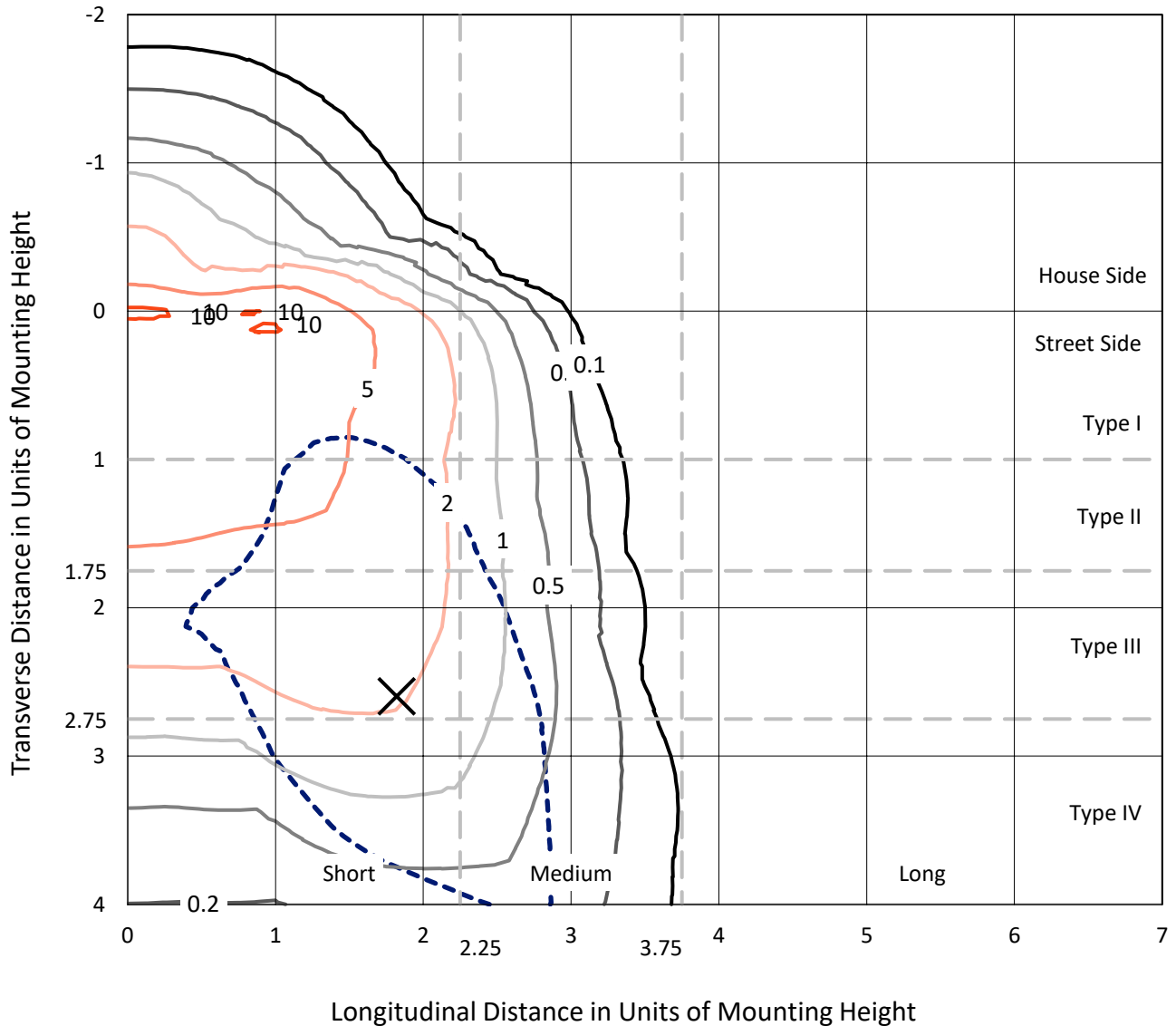
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

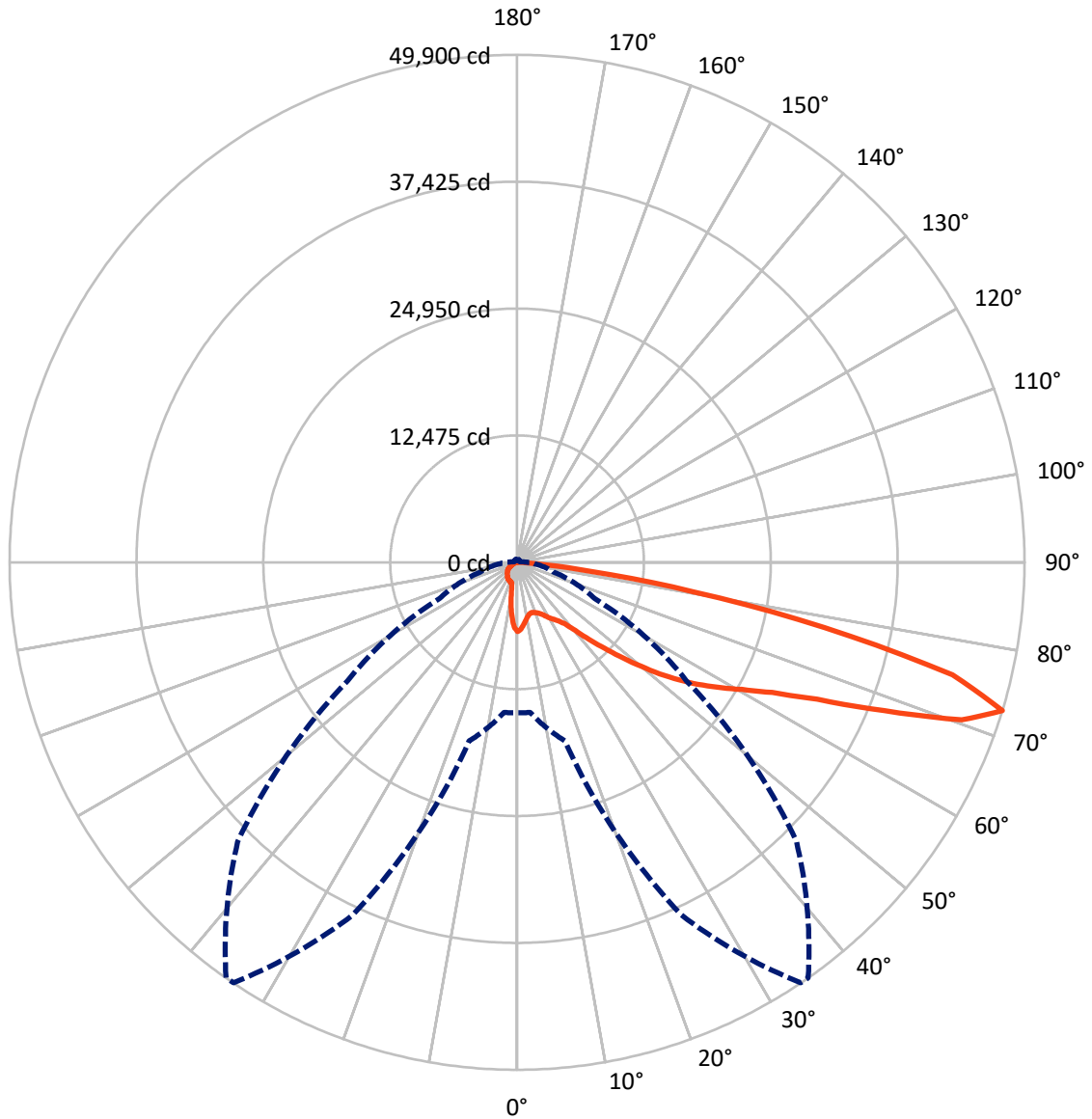
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5295.0	0.0	5295.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	41753.0	0.0	41753.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	47048.0	0.0	47048.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.3	1.2
10°-20°	1310.8	2.8
20°-30°	2129.4	4.5
30°-40°	3552.9	7.6
40°-50°	6722.1	14.3
50°-60°	10681.4	22.7
60°-70°	13213.6	28.1
70°-80°	8213.7	17.5
80°-90°	663.8	1.4
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°	47048.0	100.0
0°-180°	47048.0	100.0

Coefficient of Utilization

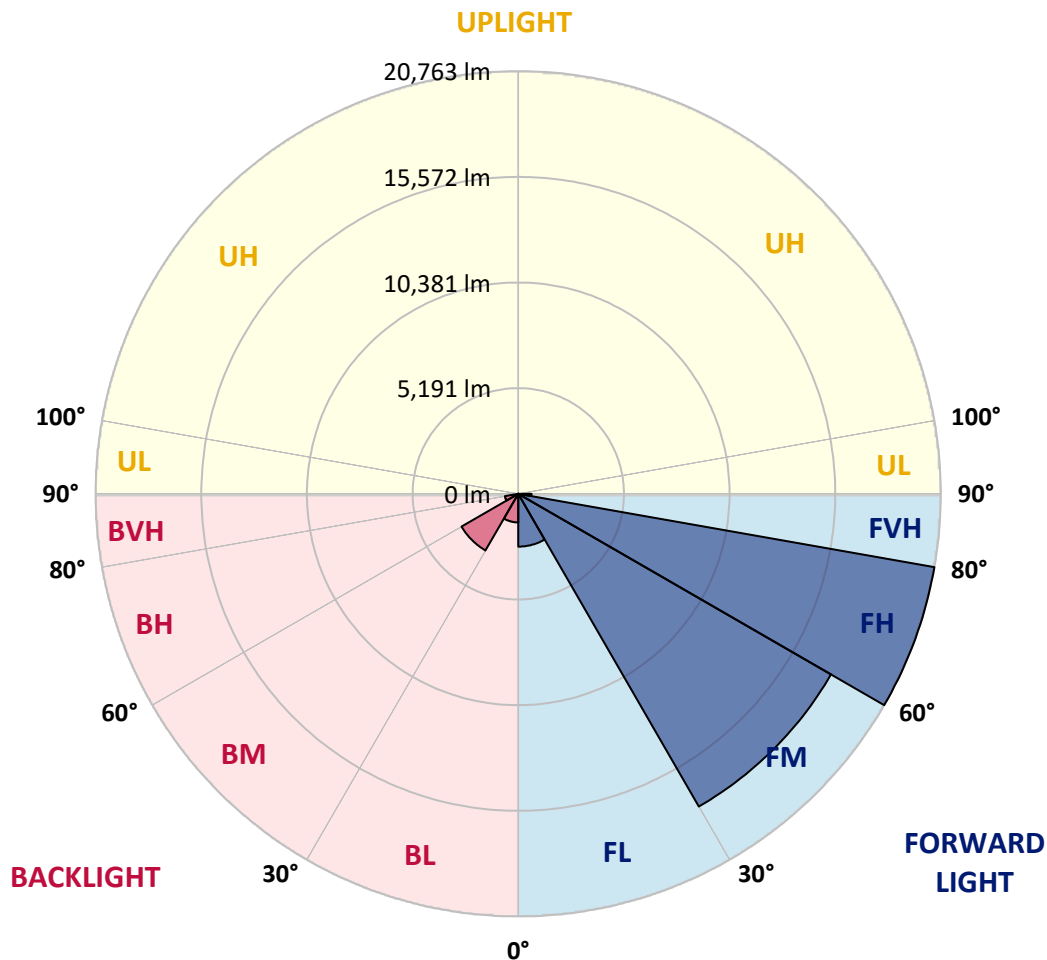


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2593.5	5.5			
FM (30°-60°)	17741.8	37.7			
FH (60°-80°)	20762.9	44.1			G5
FVH (80°-90°)	654.8	1.4			G4/750
BL (0°-30°)	1407.0	3.0	B3/2500		
BM (30°-60°)	3214.6	6.8	B3/5000		
BH (60°-80°)	664.5	1.4	B2/1000		G2/1000
BVH (80°-90°)	9.0	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	6818.8	6818.8	6818.8	6818.8	6818.8	6818.8	6818.8	6818.8	6818.8	6818.8
2.5°	6515.5	6570.6	6581.0	6598.2	6598.2	6618.9	6653.4	6701.6	6780.9	6822.3
5°	6005.3	6046.6	6098.3	6139.7	6219.0	6229.3	6363.8	6494.8	6677.5	6815.4
7.5°	5491.6	5539.9	5608.8	5708.8	5812.2	5843.2	6046.6	6267.3	6556.8	6815.4
10°	5129.6	5133.1	5195.1	5295.1	5460.6	5498.5	5746.7	6060.4	6422.4	6774.0
12.5°	4926.2	4950.4	4978.0	5053.8	5212.4	5236.5	5501.9	5870.8	6287.9	6749.9
15°	4926.2	4943.5	4960.7	4998.6	5126.2	5146.9	5381.3	5750.2	6219.0	6760.2
17.5°	4978.0	5005.5	4991.7	5036.6	5171.0	5184.8	5391.6	5715.7	6215.5	6825.7
20°	5102.1	5122.7	5095.2	5122.7	5257.2	5284.8	5498.5	5781.2	6274.2	6939.5
22.5°	5298.6	5308.9	5243.4	5264.1	5402.0	5436.5	5684.7	5967.3	6415.5	7122.2
25°	5546.8	5567.4	5467.5	5491.6	5622.6	5664.0	5950.1	6246.6	6639.6	7373.9
27.5°	5832.9	5843.2	5757.1	5753.6	5922.5	5981.1	6270.7	6591.3	6939.5	7691.0
30°	6160.4	6191.4	6108.7	6094.9	6308.6	6356.9	6643.0	7015.3	7380.7	8166.7
32.5°	6418.9	6443.1	6394.8	6429.3	6646.5	6684.4	7094.6	7615.2	8073.7	8842.4
35°	6791.3	6805.0	6694.7	6756.8	7005.0	7101.5	7711.7	8456.3	8945.8	9690.5
37.5°	8139.2	8139.2	7670.3	7363.5	7601.4	7687.6	8556.3	9514.7	10021.4	10828.1
40°	10004.2	9973.1	9287.1	8659.7	8628.7	8797.6	9759.4	10848.8	11410.7	12193.2
42.5°	11993.3	11945.0	11010.8	10390.3	10286.9	10345.5	11148.7	12493.1	13065.4	13858.3
45°	13758.3	13744.5	12889.6	12055.3	11869.2	12055.3	12882.7	14416.8	14827.0	15661.3
47.5°	15237.2	15237.2	14613.3	14068.6	13972.1	14082.4	15230.3	16550.7	16512.7	17581.4
50°	16940.2	16926.4	16333.5	16099.1	16199.0	16354.2	17933.0	18798.3	18257.1	19467.1
52.5°	18133.0	18215.7	18012.3	17974.4	18484.6	18753.5	20677.1	20997.7	19818.7	21256.3
55°	19077.6	19174.1	19408.5	19674.0	20656.4	21008.1	23335.0	23083.4	21125.3	22807.6
57.5°	20415.1	20277.2	20639.2	21163.2	22752.4	23176.4	25910.2	25051.8	22176.7	24065.9
60°	22038.8	22059.5	22121.6	22783.5	24845.0	25389.6	28447.4	26913.4	22852.4	24838.1
62.5°	23990.0	24021.0	24148.6	25165.6	27654.5	28168.2	31150.1	28437.1	23162.7	24620.9
65°	23855.6	23986.6	25410.3	28888.7	31925.8	32432.5	34304.5	29505.8	22693.8	22635.2
67.5°	21732.0	21945.7	24327.9	33335.7	38365.4	38930.8	38117.2	29716.0	20670.2	17602.1
70°	18946.6	19022.4	21887.1	37334.7	45822.0	46394.3	41530.1	27402.9	15685.4	9818.0
72.5°	14796.0	14813.2	18174.4	38262.0	49869.2	49900.2	38851.5	20342.7	8435.6	3771.4
75°	10569.5	10466.1	12172.5	31029.5	43874.3	44225.9	29126.6	9542.2	3223.3	1782.3
77.5°	5667.4	5781.2	6887.8	18401.9	30309.0	30908.8	15892.2	2751.0	1640.9	1213.5
80°	1751.2	1847.8	2823.4	8425.3	17167.7	17529.7	5891.5	1223.8	1144.5	865.3
82.5°	551.6	572.3	1316.9	3540.4	7125.6	7291.1	1706.4	692.9	782.5	572.3
85°	158.6	162.0	586.0	1320.3	1761.6	1796.1	479.2	268.9	448.2	355.1
87.5°	17.2	55.2	220.6	220.6	155.1	151.7	51.7	58.6	127.6	44.8
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°
6818.8	0°	6818.8	6818.8	6818.8	6818.8	6818.8	6818.8	6818.8	6818.8	6818.8	6818.8
6849.9	2.5°	6832.6	6836.1	6791.3	6715.4	6632.7	6563.7	6477.5	6408.6	6360.3	6346.5
6911.9	5°	6880.9	6856.8	6729.2	6498.2	6222.4	5984.6	5719.1	5508.8	5371.0	5312.3
6977.4	7.5°	6953.3	6884.3	6605.1	6150.0	5622.6	5153.8	4678.0	4309.2	4074.8	3957.5
7039.5	10°	7015.3	6877.4	6398.3	5646.7	4840.1	4129.9	3488.7	3044.0	2795.8	2678.6
7111.9	12.5°	7073.9	6874.0	6129.4	5050.3	3957.5	3088.8	2492.4	2271.8	2202.8	2178.7
7229.1	15°	7184.3	6884.3	5791.5	4367.8	3078.5	2333.8	2116.7	2113.2	2127.0	2120.1
7408.3	17.5°	7335.9	6894.7	5408.9	3643.8	2375.2	2058.1	2047.7	2078.7	2099.4	2089.1
7632.4	20°	7532.4	6936.0	5002.1	2926.8	2040.8	1989.1	2013.2	2040.8	2058.1	2040.8
7932.3	22.5°	7808.2	7008.4	4557.4	2351.1	1934.0	1947.7	1968.4	1999.5	2016.7	1992.6
8315.0	25°	8146.1	7122.2	4119.6	2044.3	1882.2	1899.5	1930.5	1965.0	1985.7	1961.5
8797.6	27.5°	8583.9	7304.9	3716.2	1975.3	1830.5	1840.9	1885.7	1937.4	1965.0	1934.0
9483.6	30°	9218.2	7604.8	3368.0	2006.4	1799.5	1775.4	1837.4	1909.8	1940.9	1913.3
10417.9	32.5°	10059.3	8028.8	3154.3	2054.6	1785.7	1699.5	1758.1	1851.2	1902.9	1885.7
11638.2	35°	11162.5	8673.5	3071.6	2109.8	1775.4	1620.2	1661.6	1761.6	1851.2	1868.5
13175.7	37.5°	12500.0	9569.8	3095.7	2133.9	1744.4	1554.7	1575.4	1661.6	1778.8	1834.0
14906.3	40°	14020.3	10614.4	3233.6	2109.8	1709.9	1499.6	1503.0	1568.5	1672.0	1754.7
16767.8	42.5°	15588.9	11834.7	3488.7	2020.1	1678.9	1451.3	1441.0	1485.8	1554.7	1613.4
18626.0	45°	17081.6	13089.5	3740.4	1896.0	1640.9	1403.1	1378.9	1396.2	1410.0	1434.1
20435.8	47.5°	18384.6	13972.1	3668.0	1782.3	1589.2	1347.9	1306.5	1299.6	1258.3	1254.8
22052.6	50°	19284.4	14165.1	3257.7	1668.5	1513.4	1285.9	1220.4	1179.0	1106.6	1072.1
23262.6	52.5°	19570.5	13403.2	2661.3	1554.7	1389.3	1203.1	1110.0	1044.5	954.9	923.9
23959.0	55°	19191.3	11910.5	2127.0	1416.9	1216.9	1092.8	989.4	903.2	830.8	792.9
24034.8	57.5°	18264.0	10011.1	1682.3	1254.8	1034.2	968.7	865.3	779.1	717.0	679.1
23193.7	60°	16726.5	7949.6	1330.7	1061.8	882.5	834.3	727.4	672.2	617.1	572.3
21021.9	62.5°	14392.6	5674.3	1044.5	841.2	737.7	682.6	620.5	579.2	513.7	451.6
17116.0	65°	11231.4	3471.5	806.7	617.1	592.9	565.4	527.4	489.5	410.2	348.2
11165.9	67.5°	7084.3	1644.4	575.7	465.4	468.8	455.0	437.8	406.8	348.2	293.0
5002.1	70°	3119.8	796.3	379.2	355.1	348.2	348.2	362.0	351.6	296.5	244.8
1737.5	72.5°	1061.8	427.5	282.7	268.9	251.7	248.2	303.4	293.0	237.9	189.6
865.3	75°	555.0	286.1	206.8	193.1	151.7	182.7	241.3	227.5	168.9	124.1
572.3	77.5°	362.0	203.4	141.3	124.1	86.2	120.7	179.3	158.6	100.0	62.1
375.8	80°	227.5	134.4	82.7	58.6	41.4	65.5	96.5	68.9	37.9	13.8
220.6	82.5°	120.7	68.9	31.0	20.7	17.2	20.7	24.1	17.2	6.9	0.0
113.8	85°	48.3	24.1	10.3	6.9	3.4	0.0	6.9	3.4	0.0	0.0
20.7	87.5°	17.2	3.4	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>
6818.8
6370.7
5333.0
3974.8
2682.0
2171.8
2116.7
2085.6
2037.4
1989.1
1958.1
1934.0
1909.8
1885.7
1868.5
1847.8
1782.3
1637.5
1447.9
1251.4
1075.6
920.4
792.9
672.2
561.9
441.3
337.8
286.1
234.4
179.3
113.8
55.2
10.3
0.0
0.0
0.0
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