

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: P849025

Luminaire Tested: **GLAN-SB5D-840-U-T2-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P849025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB5D-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33381 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

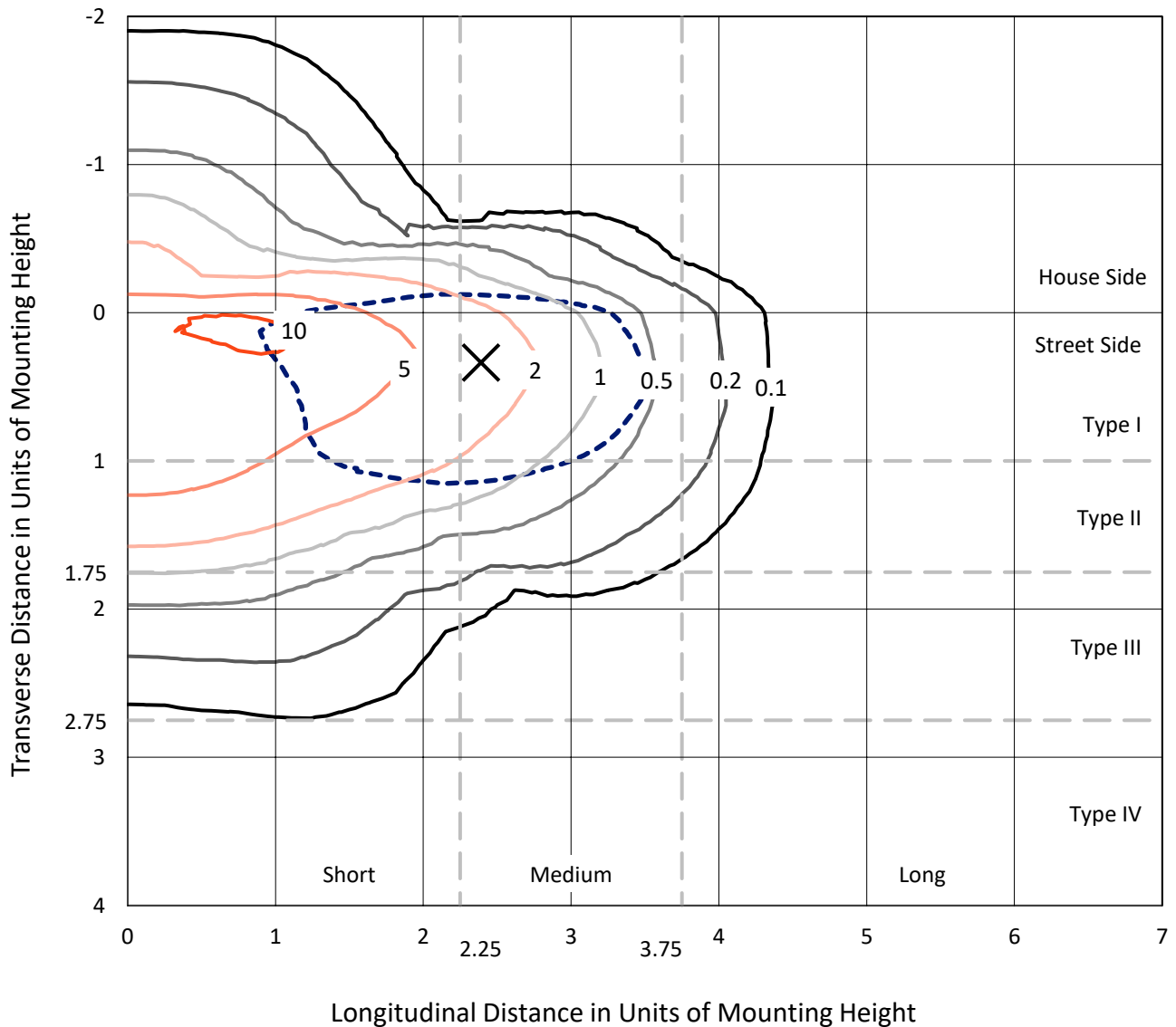
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

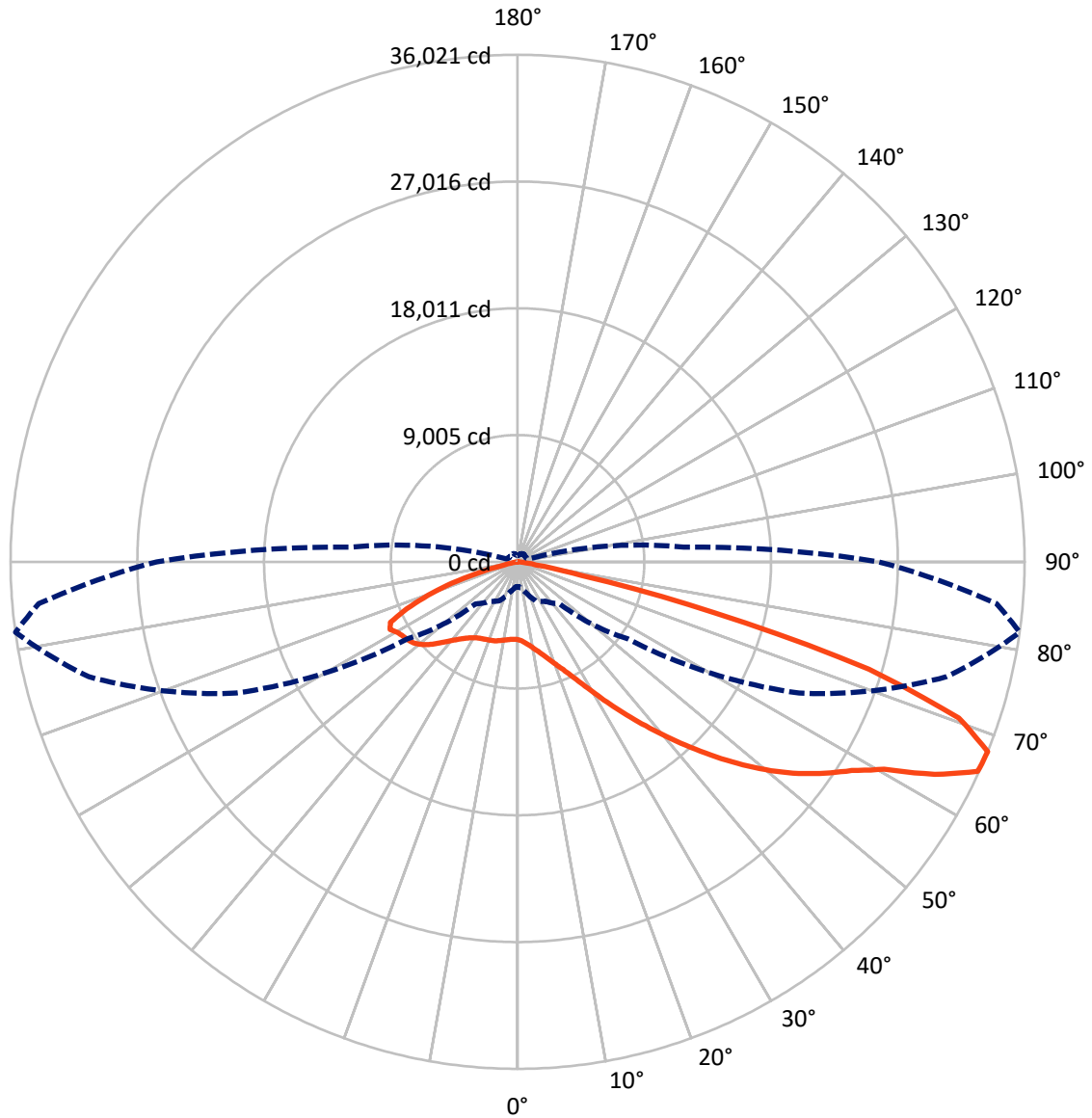
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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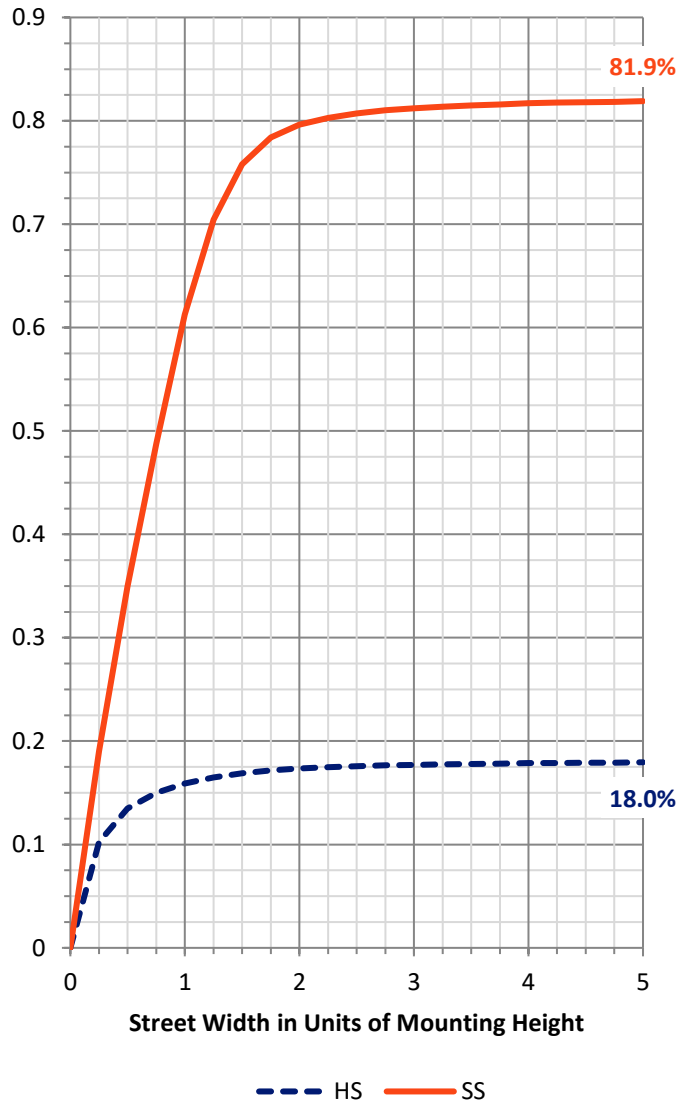
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6046.7	0.0	6046.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	27334.3	0.0	27334.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	33381.0	0.0	33381.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.7	1.5
10°-20°	1280.3	3.8
20°-30°	2050.6	6.1
30°-40°	3626.2	10.9
40°-50°	6353.4	19.0
50°-60°	8473.6	25.4
60°-70°	7888.5	23.6
70°-80°	3027.6	9.1
80°-90°	188.0	0.6
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°	33381.0	100.0
0°-180°	33381.0	100.0

Coefficient of Utilization

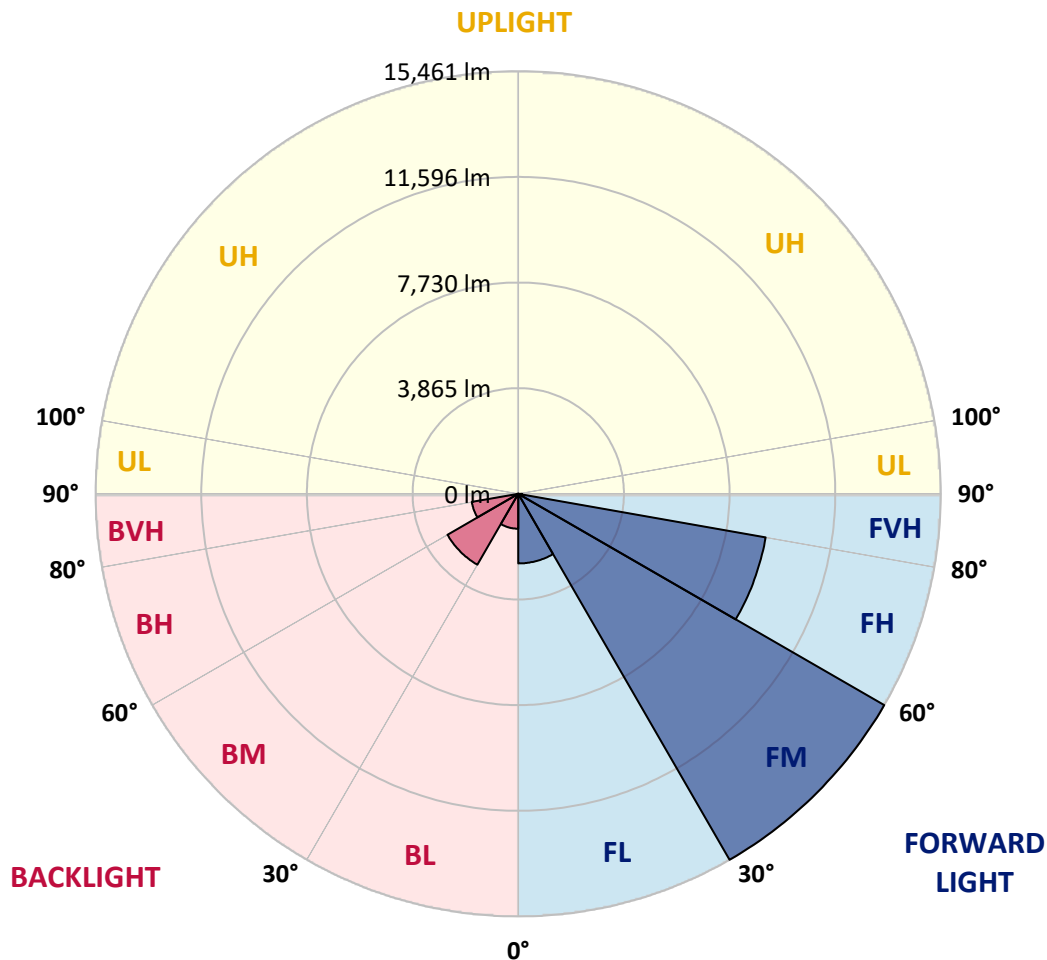


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2546.6	7.6			
FM (30°-60°)	15460.7	46.3			
FH (60°-80°)	9190.3	27.5			G4/12000
FVH (80°-90°)	136.7	0.4			G2/225
BL (0°-30°)	1277.0	3.8	B3/2500		
BM (30°-60°)	2992.5	9.0	B3/5000		
BH (60°-80°)	1725.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	51.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5530.1	5530.1	5530.1	5530.1	5530.1	5530.1	5530.1	5530.1	5530.1	5530.1
2.5°	5844.9	5878.6	5859.4	5849.7	5832.9	5808.9	5789.7	5729.6	5667.1	5626.2
5°	5962.7	5996.4	5993.9	6003.6	6015.6	6022.8	6018.0	5950.7	5861.8	5792.1
7.5°	5861.8	5900.2	5931.5	5979.5	6063.6	6152.6	6195.8	6181.4	6090.1	5993.9
10°	5575.8	5616.6	5691.1	5804.1	5981.9	6174.2	6335.2	6409.7	6352.0	6246.3
12.5°	5051.8	5092.7	5239.3	5484.4	5782.5	6116.5	6424.1	6623.6	6638.0	6532.3
15°	4463.0	4503.9	4660.1	4967.7	5422.0	5957.9	6472.2	6849.5	6976.9	6885.6
17.5°	4097.7	4133.8	4251.5	4499.1	4972.5	5640.7	6455.4	7089.9	7380.7	7308.6
20°	3987.2	4018.4	4073.7	4246.7	4640.9	5311.4	6344.8	7315.8	7815.7	7774.8
22.5°	4104.9	4133.8	4150.6	4227.5	4475.0	5095.1	6205.4	7546.5	8320.4	8325.2
25°	4376.5	4405.3	4386.1	4434.2	4542.3	5027.8	6152.6	7818.1	8954.9	9007.7
27.5°	4823.5	4825.9	4780.3	4777.9	4794.7	5128.7	6207.8	8108.9	9755.2	9853.7
30°	5720.0	5683.9	5508.5	5318.6	5232.1	5431.6	6361.7	8452.6	10699.7	10875.1
32.5°	7101.9	7049.0	6727.0	6272.7	5816.1	5919.4	6638.0	8844.3	11728.3	12045.6
35°	8601.6	8587.2	8250.7	7575.4	6777.4	6614.0	7087.5	9358.6	12850.7	13355.4
37.5°	9995.5	9988.3	9796.0	9000.5	8029.6	7582.6	7808.5	10031.6	14052.4	14783.0
40°	11269.3	11290.9	11098.7	10387.3	9409.1	8825.1	8789.0	10863.1	15388.6	16338.0
42.5°	12370.0	12394.1	12199.4	11673.1	10771.8	10199.8	9993.1	11882.1	16693.7	18008.3
45°	13117.5	13266.5	13237.6	12817.1	12170.6	11576.9	11439.9	13160.7	18181.3	19779.5
47.5°	13329.0	13466.0	13682.3	13739.9	13345.8	12761.8	12925.2	14701.3	19685.8	21553.2
50°	12807.4	12934.8	13384.2	13982.7	14256.7	14076.4	14369.6	16352.4	21226.4	23322.1
52.5°	11778.8	11908.6	12475.8	13422.7	14540.3	15107.4	15818.8	17979.4	22718.8	24997.2
55°	10291.1	10428.1	11156.3	12228.2	13999.5	15532.8	17027.7	19604.1	24086.3	26504.1
57.5°	8267.5	8368.5	9125.5	10625.2	12639.2	15109.8	17919.4	21377.8	25374.5	27984.6
60°	5388.3	5477.2	6356.9	8029.6	10384.9	13696.7	18097.2	23355.7	27085.7	29909.7
62.5°	3583.4	3643.5	4165.0	5393.1	7313.4	10983.3	17056.6	24934.7	29594.8	33259.9
65°	2458.6	2518.7	3040.2	3895.8	4725.0	7265.3	14064.4	24725.6	31868.4	35920.4
67.5°	1754.4	1804.9	2247.1	3054.7	3420.0	4220.3	9534.1	22053.1	31541.5	36021.4
70°	1257.0	1285.8	1651.1	2379.3	2718.2	2535.5	5301.8	16866.7	27616.9	33262.3
72.5°	879.6	889.2	1146.4	1812.1	2189.4	1850.6	2523.5	11245.3	20887.5	26107.6
75°	596.0	608.0	771.5	1329.1	1756.8	1413.2	1336.3	6030.0	12261.9	14451.3
77.5°	365.3	370.1	497.5	908.5	1314.6	1076.7	860.4	2554.8	4744.2	4657.7
80°	206.7	206.7	317.2	564.8	896.4	694.6	603.2	1086.3	1502.1	1319.4
82.5°	115.4	117.8	230.7	350.9	593.6	411.0	331.7	502.3	648.9	574.4
85°	48.1	52.9	141.8	165.8	283.6	204.3	134.6	211.5	240.3	213.9
87.5°	4.8	7.2	43.3	31.2	33.6	40.9	19.2	40.9	33.6	33.6
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°
5530.1	0°	5530.1	5530.1	5530.1	5530.1	5530.1	5530.1	5530.1	5530.1	5530.1	5530.1
5611.8	2.5°	5566.2	5530.1	5438.8	5333.0	5193.6	5126.3	5035.0	4972.5	4919.7	4924.5
5751.2	5°	5674.3	5583.0	5378.7	5123.9	4806.7	4580.8	4340.4	4174.6	4040.0	4011.2
5943.5	7.5°	5823.3	5679.1	5321.0	4862.0	4326.0	3919.9	3557.0	3323.8	3158.0	3105.1
6176.6	10°	6015.6	5806.5	5246.5	4532.7	3761.2	3244.5	2855.2	2672.5	2559.6	2521.1
6450.6	12.5°	6239.1	5953.1	5148.0	4131.4	3179.6	2682.1	2434.6	2343.3	2307.2	2295.2
6787.1	15°	6520.3	6135.7	4999.0	3655.5	2686.9	2338.5	2232.7	2220.7	2225.5	2220.7
7190.8	17.5°	6854.3	6335.2	4756.2	3165.2	2355.3	2163.0	2124.6	2134.2	2146.2	2143.8
7642.6	20°	7219.7	6532.3	4446.2	2730.2	2129.4	2038.0	2016.4	2026.0	2035.6	2030.8
8164.2	22.5°	7635.4	6743.8	4102.5	2391.3	1978.0	1922.7	1898.6	1901.0	1901.0	1891.4
8825.1	25°	8132.9	6976.9	3742.0	2151.0	1862.6	1819.3	1790.5	1780.9	1766.5	1737.6
9627.8	27.5°	8726.6	7224.5	3395.9	1982.8	1771.3	1730.4	1696.8	1672.7	1636.7	1588.6
10591.6	30°	9394.7	7524.9	3102.7	1877.0	1699.2	1658.3	1619.9	1583.8	1530.9	1470.8
11699.5	32.5°	10180.6	7846.9	2888.8	1807.3	1634.3	1591.0	1545.4	1502.1	1444.4	1384.3
12944.4	35°	11117.9	8236.3	2763.8	1759.3	1583.8	1526.1	1475.7	1427.6	1384.3	1331.5
14297.5	37.5°	12134.5	8649.6	2725.4	1735.2	1550.2	1461.2	1403.6	1369.9	1365.1	1333.9
15761.2	40°	13247.3	9139.9	2754.2	1720.8	1514.1	1398.7	1336.3	1329.1	1341.1	1285.8
17325.7	42.5°	14424.9	9721.5	2802.3	1704.0	1463.6	1336.3	1276.2	1276.2	1266.6	1189.7
18979.2	45°	15698.7	10392.1	2850.4	1663.1	1403.6	1273.8	1228.1	1211.3	1170.4	1095.9
20642.3	47.5°	16982.1	11074.6	2886.4	1588.6	1331.5	1220.9	1180.0	1141.6	1081.5	1014.2
22274.2	50°	18200.5	11687.5	2848.0	1478.1	1249.7	1170.4	1127.2	1074.3	1009.4	963.7
23819.6	52.5°	19289.3	12218.6	2684.5	1348.3	1163.2	1117.6	1079.1	1023.8	971.0	922.9
25213.5	55°	20236.2	12648.8	2396.1	1225.7	1086.3	1071.9	1033.4	963.7	891.6	850.8
26595.4	57.5°	21144.6	12975.7	2035.6	1124.8	1016.6	1021.4	963.7	901.3	834.0	790.7
28458.0	60°	22353.5	13413.1	1670.3	1031.0	942.1	956.5	894.0	848.4	764.3	709.0
31652.1	62.5°	24285.8	14093.2	1326.6	915.7	855.6	860.4	834.0	778.7	677.7	612.9
34019.4	65°	25819.2	13843.3	1045.5	790.7	757.1	764.3	764.3	704.2	596.0	521.5
34146.8	67.5°	25646.1	11853.3	834.0	668.1	663.3	668.1	685.0	634.5	528.7	468.7
31546.3	70°	23624.9	9428.3	668.1	555.2	576.8	564.8	612.9	579.2	475.9	415.8
24456.5	72.5°	19277.2	6791.9	509.5	459.0	442.2	461.4	552.8	521.5	396.6	329.3
12954.0	75°	11264.5	3624.2	379.7	362.9	319.6	384.5	490.3	444.6	302.8	242.7
3970.3	77.5°	3667.5	1264.2	278.8	266.8	237.9	310.0	418.2	374.9	247.5	192.3
1163.2	80°	983.0	382.1	189.9	175.4	153.8	230.7	331.7	298.0	177.8	125.0
499.9	82.5°	394.1	161.0	110.6	98.5	84.1	158.6	262.0	240.3	132.2	79.3
156.2	85°	127.4	52.9	40.9	31.2	38.5	98.5	156.2	163.4	93.7	40.9
24.0	87.5°	16.8	7.2	7.2	9.6	7.2	16.8	48.1	45.7	26.4	4.8
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°
5530.1
4876.4
3946.3
3052.3
2492.3
2288.0
2218.3
2139.0
2028.4
1886.6
1732.8
1583.8
1466.0
1386.7
1326.6
1331.5
1288.2
1189.7
1093.5
1011.8
956.5
918.1
846.0
785.9
701.8
608.0
514.3
459.0
408.6
322.0
235.5
185.1
122.6
79.3
31.2
0.0
0.0

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