

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: P846983

Luminaire Tested: **GLAN-SB2D-840-U-SL4**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P846983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB2D-840-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17940 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

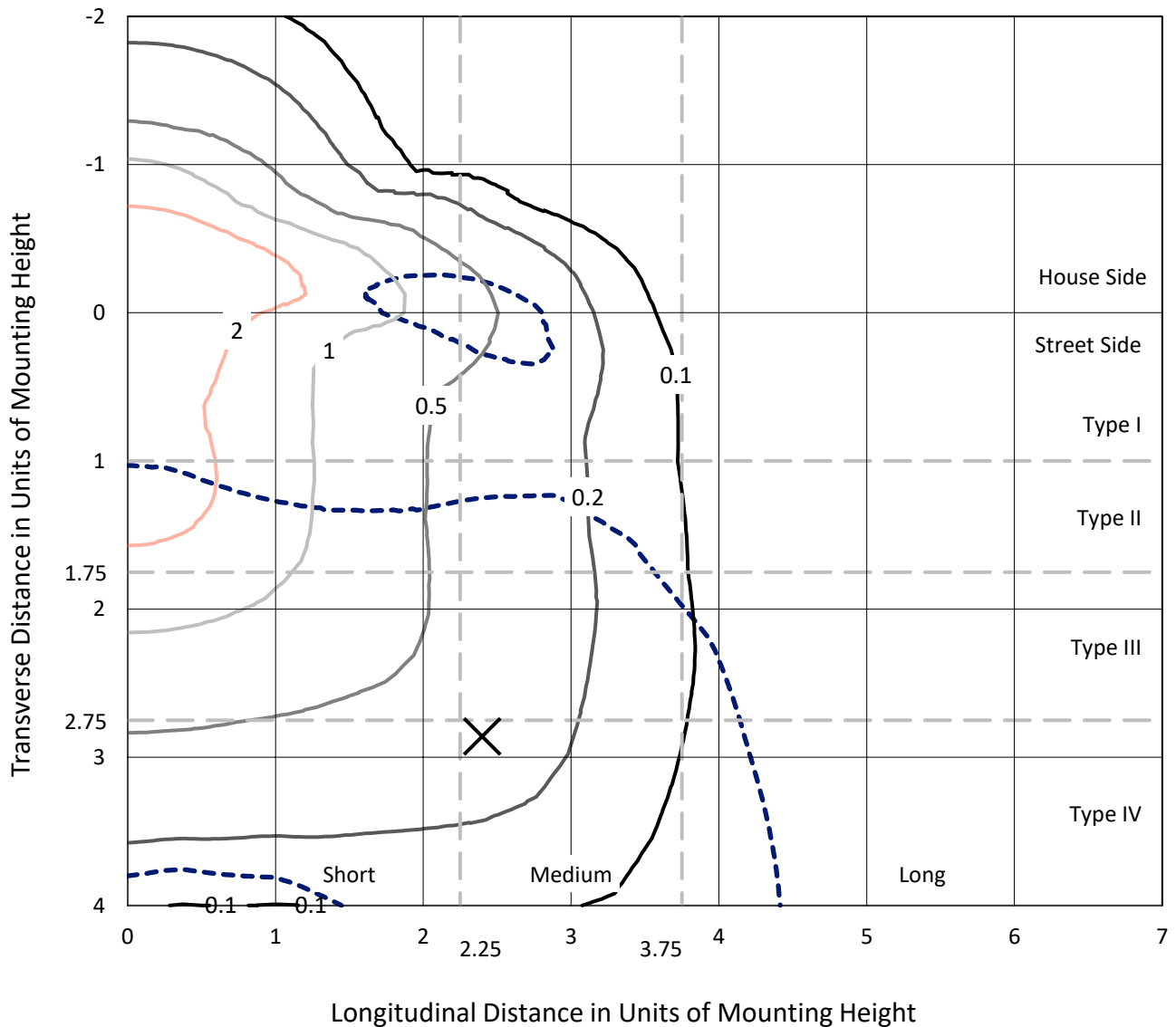
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

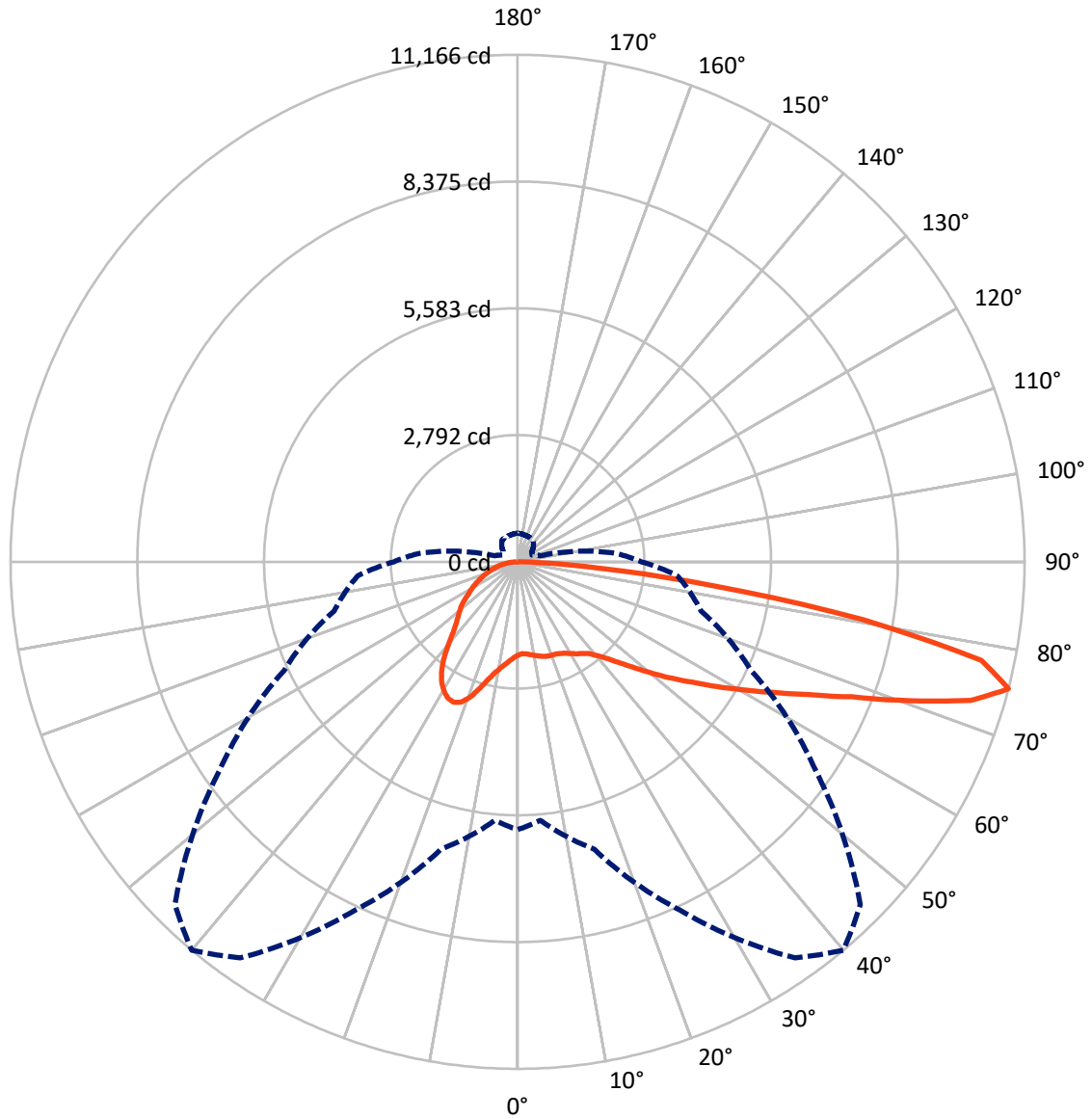
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5558.4	0.0	5558.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	12381.6	0.0	12381.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	17940.0	0.0	17940.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.8	1.1
10°-20°	687.5	3.8
20°-30°	1255.4	7.0
30°-40°	1780.4	9.9
40°-50°	2404.1	13.4
50°-60°	3234.2	18.0
60°-70°	4105.0	22.9
70°-80°	3725.5	20.8
80°-90°	543.1	3.0
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°	17940.0	100.0
0°-180°	17940.0	100.0

Coefficient of Utilization



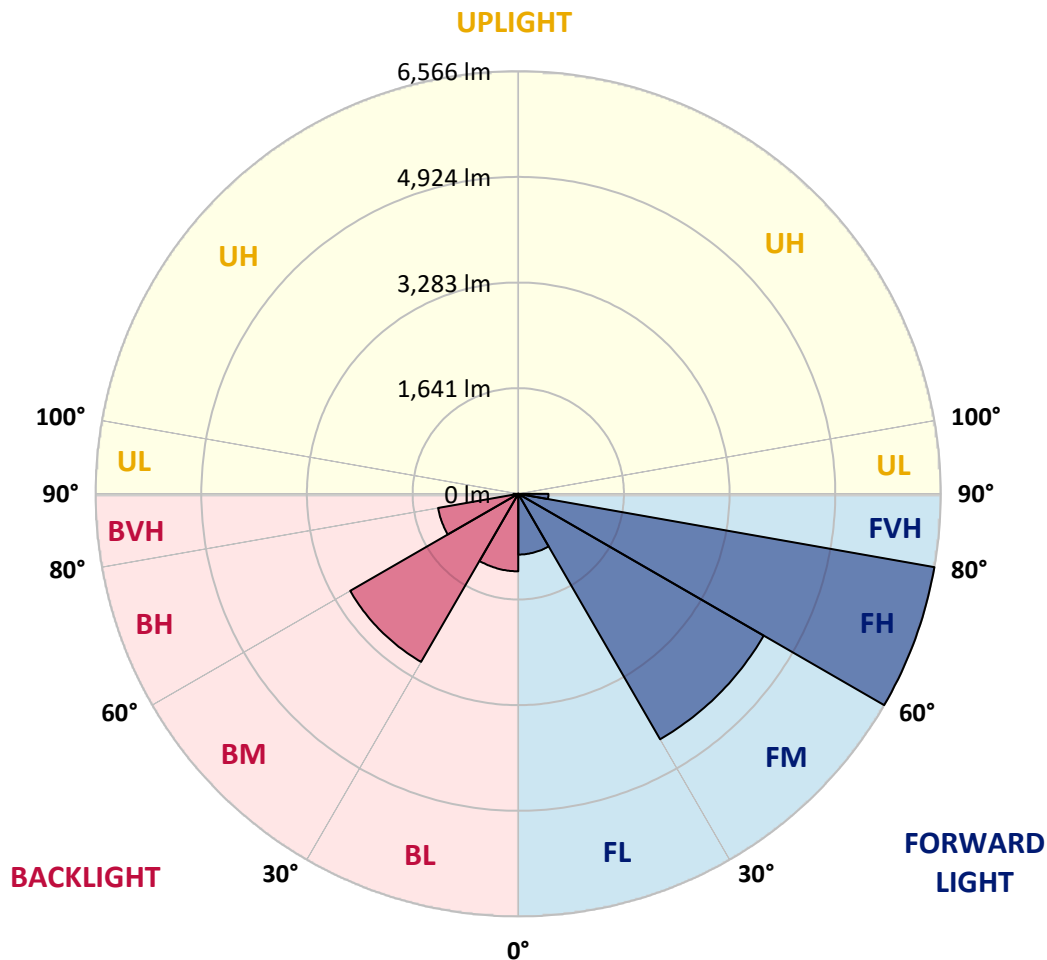
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	943.7	5.3			
FM (30°-60°)	4403.9	24.5			
FH (60°-80°)	6565.8	36.6			G3/7500
FVH (80°-90°)	468.3	2.6			G3/500
BL (0°-30°)	1204.0	6.7	B3/2500		
BM (30°-60°)	3014.9	16.8	B3/5000		
BH (60°-80°)	1264.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	74.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5
2.5°	2020.1	2031.5	2028.6	2024.8	2024.8	2025.8	2024.8	2031.5	2038.1	2044.8
5°	2041.0	2052.4	2046.7	2041.9	2038.1	2037.2	2034.3	2033.4	2037.2	2045.8
7.5°	2081.9	2093.3	2084.8	2076.2	2068.6	2064.8	2061.0	2055.3	2052.4	2057.2
10°	2127.6	2139.0	2128.5	2113.3	2100.9	2096.2	2092.4	2086.7	2082.9	2085.7
12.5°	2173.3	2184.7	2170.4	2149.5	2133.3	2130.4	2125.7	2123.8	2122.8	2121.9
15°	2216.1	2225.6	2207.5	2182.8	2165.6	2160.9	2156.1	2159.0	2163.7	2169.5
17.5°	2249.4	2258.9	2232.3	2199.9	2183.7	2181.8	2179.0	2188.5	2201.8	2216.1
20°	2279.8	2289.3	2255.1	2211.3	2192.3	2192.3	2193.2	2213.2	2232.3	2253.2
22.5°	2322.6	2330.3	2288.4	2228.4	2200.9	2202.8	2210.4	2230.3	2254.1	2282.7
25°	2386.4	2392.1	2340.7	2260.8	2229.4	2235.1	2241.8	2251.3	2274.1	2307.4
27.5°	2489.2	2493.9	2426.4	2317.9	2270.3	2279.8	2289.3	2282.7	2293.1	2321.7
30°	2633.8	2636.6	2551.0	2407.3	2339.8	2344.5	2346.4	2318.8	2298.9	2321.7
32.5°	2805.1	2804.1	2702.3	2515.8	2418.7	2414.0	2397.8	2343.6	2297.0	2316.9
35°	3070.5	3060.1	2928.8	2668.0	2508.2	2478.7	2440.6	2371.2	2306.5	2312.2
37.5°	3510.1	3477.8	3296.0	2917.3	2641.4	2566.2	2510.1	2415.9	2327.4	2310.3
40°	4005.9	3965.0	3765.1	3258.9	2841.2	2720.4	2630.0	2479.6	2361.7	2318.8
42.5°	4593.9	4535.9	4320.8	3661.4	3094.3	2919.2	2783.2	2560.5	2412.1	2346.4
45°	5316.1	5239.0	4934.5	4115.3	3413.1	3180.0	2998.2	2683.3	2489.2	2399.7
47.5°	6045.9	6064.9	5632.0	4634.8	3795.6	3501.6	3267.5	2867.9	2601.4	2485.4
50°	6821.4	6834.7	6325.7	5210.5	4229.5	3865.0	3570.1	3074.3	2757.5	2607.1
52.5°	7426.6	7428.5	6955.6	5812.8	4681.4	4264.7	3896.4	3310.3	2938.3	2768.9
55°	7805.3	7800.5	7397.1	6382.8	5201.0	4684.3	4258.0	3578.6	3159.0	2959.2
57.5°	8080.3	8066.0	7701.5	6872.8	5754.8	5180.0	4667.2	3883.1	3419.7	3185.7
60°	8184.9	8176.4	7908.0	7296.2	6337.1	5728.1	5139.1	4223.8	3715.7	3453.0
62.5°	8224.9	8241.1	8110.7	7706.3	6960.3	6335.2	5657.7	4631.0	4048.7	3755.6
65°	8365.7	8395.2	8368.6	8243.0	7664.4	7046.0	6345.6	5115.3	4412.2	4080.1
67.5°	8644.5	8674.0	8685.4	8885.2	8524.6	7931.8	7203.9	5718.6	4837.5	4416.9
70°	8637.8	8629.3	8831.0	9396.2	9601.7	9158.3	8360.9	6460.8	5344.7	4696.7
72.5°	7862.4	7793.8	8270.6	9390.5	10498.0	10439.1	9773.9	7418.0	5782.3	4730.9
75°	5898.4	5715.7	6557.8	8462.8	10647.4	11166.0	10672.2	8011.7	5678.6	4180.0
77.5°	2522.5	2338.8	3331.2	6264.8	9529.4	10438.1	9848.2	6989.8	4533.0	2764.1
80°	660.4	659.4	1006.7	2840.3	6480.8	7708.2	6762.4	4514.0	2590.0	987.7
82.5°	273.1	266.4	370.1	1104.7	3166.6	4325.6	3530.1	2013.4	935.3	267.4
85°	101.8	100.9	179.8	381.6	1117.1	1784.1	1291.2	514.8	233.1	130.4
87.5°	28.5	27.6	39.0	132.3	272.1	413.0	220.8	84.7	65.7	51.4
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°
2051.5	0°	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5
2055.3	2.5°	2058.1	2062.9	2071.4	2078.1	2086.7	2096.2	2109.5	2118.1	2126.6	2132.3
2060.0	5°	2066.7	2077.2	2099.0	2120.9	2146.6	2170.4	2198.0	2218.0	2234.2	2238.9
2077.2	7.5°	2085.7	2102.8	2140.0	2177.1	2218.0	2257.0	2297.0	2331.2	2358.8	2369.3
2107.6	10°	2119.0	2141.9	2194.2	2246.5	2300.8	2360.7	2412.1	2461.6	2500.6	2516.8
2143.8	12.5°	2160.9	2189.4	2257.9	2330.3	2405.4	2488.2	2554.8	2615.7	2664.2	2686.1
2194.2	15°	2215.1	2252.2	2339.8	2436.8	2547.2	2662.3	2747.0	2814.6	2868.8	2895.5
2246.5	17.5°	2274.1	2323.6	2434.0	2580.5	2738.5	2889.7	2988.7	3038.2	3094.3	3120.0
2295.1	20°	2331.2	2392.1	2550.1	2763.2	2973.5	3134.3	3214.2	3227.5	3231.3	3234.2
2340.7	22.5°	2390.2	2472.0	2695.6	2993.5	3219.0	3330.3	3341.7	3284.6	3204.7	3167.6
2385.4	25°	2454.9	2563.4	2885.9	3247.5	3430.2	3443.5	3356.0	3217.1	3065.8	2996.3
2421.6	27.5°	2517.7	2669.0	3114.3	3490.2	3582.4	3465.4	3277.0	3080.0	2897.4	2824.1
2447.3	30°	2580.5	2789.8	3366.5	3702.3	3651.9	3411.2	3152.4	2932.6	2748.9	2671.8
2470.1	32.5°	2644.3	2930.7	3656.7	3855.5	3639.5	3296.0	2997.3	2767.0	2605.2	2524.4
2490.1	35°	2716.6	3103.8	3931.7	3939.3	3556.8	3126.7	2792.7	2569.1	2428.3	2363.6
2513.9	37.5°	2810.8	3323.6	4174.3	3960.2	3412.1	2878.3	2538.6	2335.0	2218.9	2189.4
2549.1	40°	2927.8	3588.2	4359.8	3926.9	3198.0	2576.7	2260.8	2098.1	2032.4	2039.1
2596.7	42.5°	3080.0	3884.1	4490.2	3841.3	2900.2	2265.6	2017.2	1944.9	1976.3	2002.9
2668.0	45°	3278.0	4191.4	4571.1	3695.7	2563.4	2002.0	1873.5	1890.7	1914.4	1917.3
2783.2	47.5°	3531.1	4502.6	4624.4	3475.9	2219.9	1816.4	1782.2	1786.0	1781.2	1761.3
2955.4	50°	3847.0	4805.1	4671.9	3184.7	1927.8	1700.4	1654.7	1641.4	1575.7	1511.0
3184.7	52.5°	4206.6	5083.0	4691.9	2823.1	1700.4	1603.3	1529.1	1445.3	1322.6	1302.6
3473.0	55°	4606.3	5339.9	4640.5	2378.8	1509.1	1478.7	1366.4	1265.5	1252.2	1235.1
3852.7	57.5°	5083.9	5616.8	4535.9	1883.0	1313.1	1333.1	1223.6	1235.1	1211.3	1184.6
4340.8	60°	5606.3	5903.2	4352.2	1431.1	1110.4	1151.3	1186.5	1185.6	1178.9	1157.0
4855.6	62.5°	6076.4	6091.6	3990.6	1096.1	932.5	1010.5	1106.6	1105.7	1099.9	1087.6
5393.2	65°	6356.1	6063.0	3387.4	863.0	786.0	894.4	998.1	1005.7	1006.7	1005.7
5797.6	67.5°	6306.6	5729.1	2559.6	687.0	665.1	776.4	890.6	901.1	908.7	910.6
5849.0	70°	5747.1	4995.4	1669.0	548.1	557.6	672.7	788.8	799.3	805.9	813.5
5075.4	72.5°	4479.7	3672.8	955.3	443.4	463.4	583.3	687.9	700.3	704.1	718.4
3532.0	75°	2729.9	2159.9	515.7	349.2	380.6	498.6	588.0	602.3	609.0	626.1
1734.6	77.5°	1297.9	935.3	294.0	272.1	306.4	407.2	496.7	512.9	494.8	504.3
478.6	80°	438.6	347.3	185.5	207.4	234.1	317.8	397.7	413.9	375.8	373.9
158.9	82.5°	153.2	140.8	118.0	138.0	151.3	227.4	300.7	321.6	279.7	278.8
71.4	85°	59.9	57.1	65.7	75.2	90.4	139.9	197.9	208.4	172.2	138.9
20.9	87.5°	12.4	13.3	16.2	17.1	27.6	48.5	71.4	87.5	69.5	59.0
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>
2051.5
2128.5
2240.8
2370.2
2517.7
2686.1
2893.6
3119.1
3241.8
3178.1
3006.8
2832.7
2680.4
2534.8
2377.8
2210.4
2061.9
2027.7
1936.3
1776.5
1519.6
1309.3
1237.9
1179.9
1149.4
1082.8
1005.7
912.5
817.4
724.1
628.0
496.7
370.1
265.5
137.0
54.2
0.0

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