

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: P484825

Luminaire Tested: **IFLD-S-SA3A-750-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484825  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-750-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

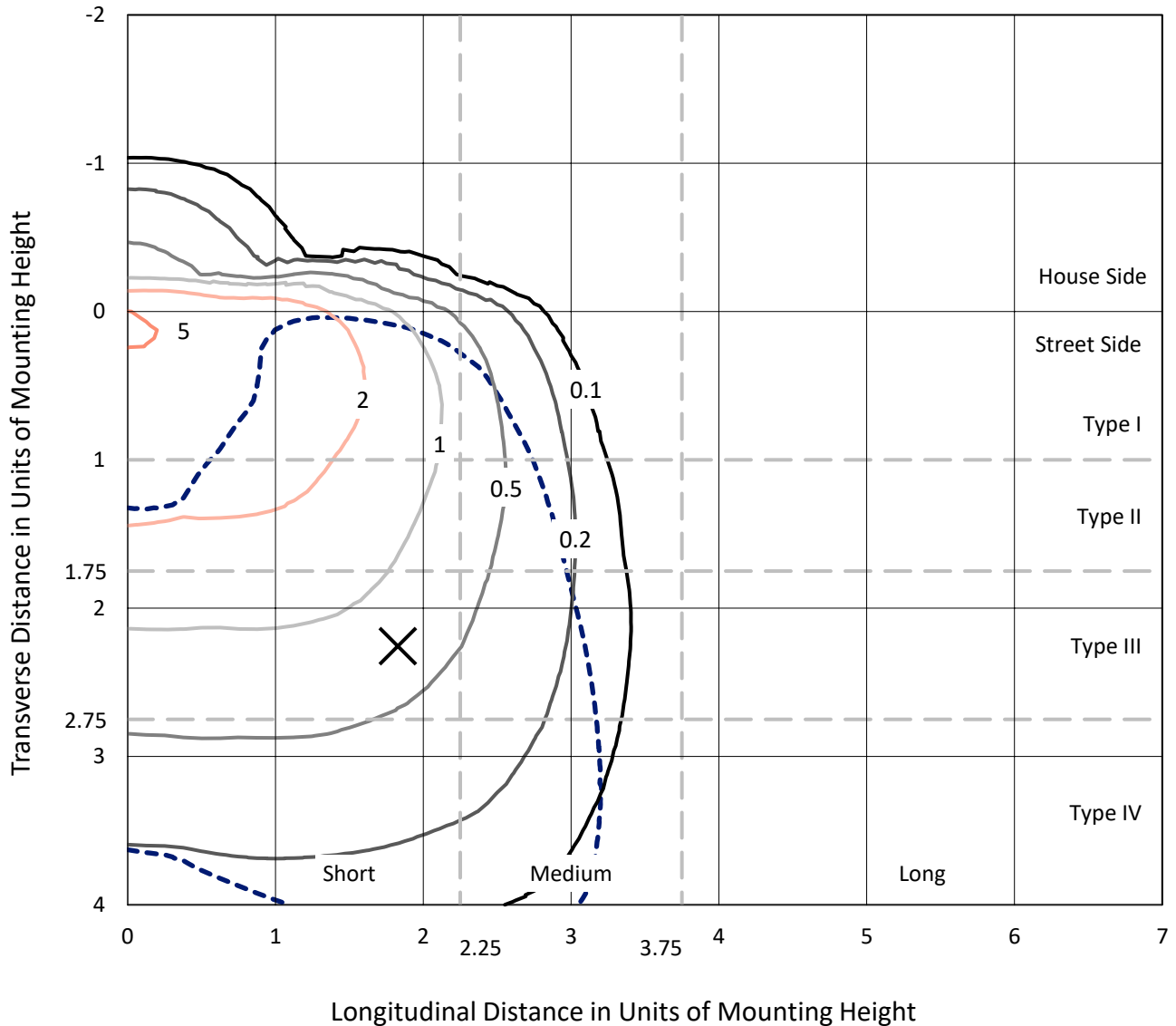
Lumens per Lamp: N/A  
Luminaire Lumens: 11626.4 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8  
Input Voltage (V): 120  
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

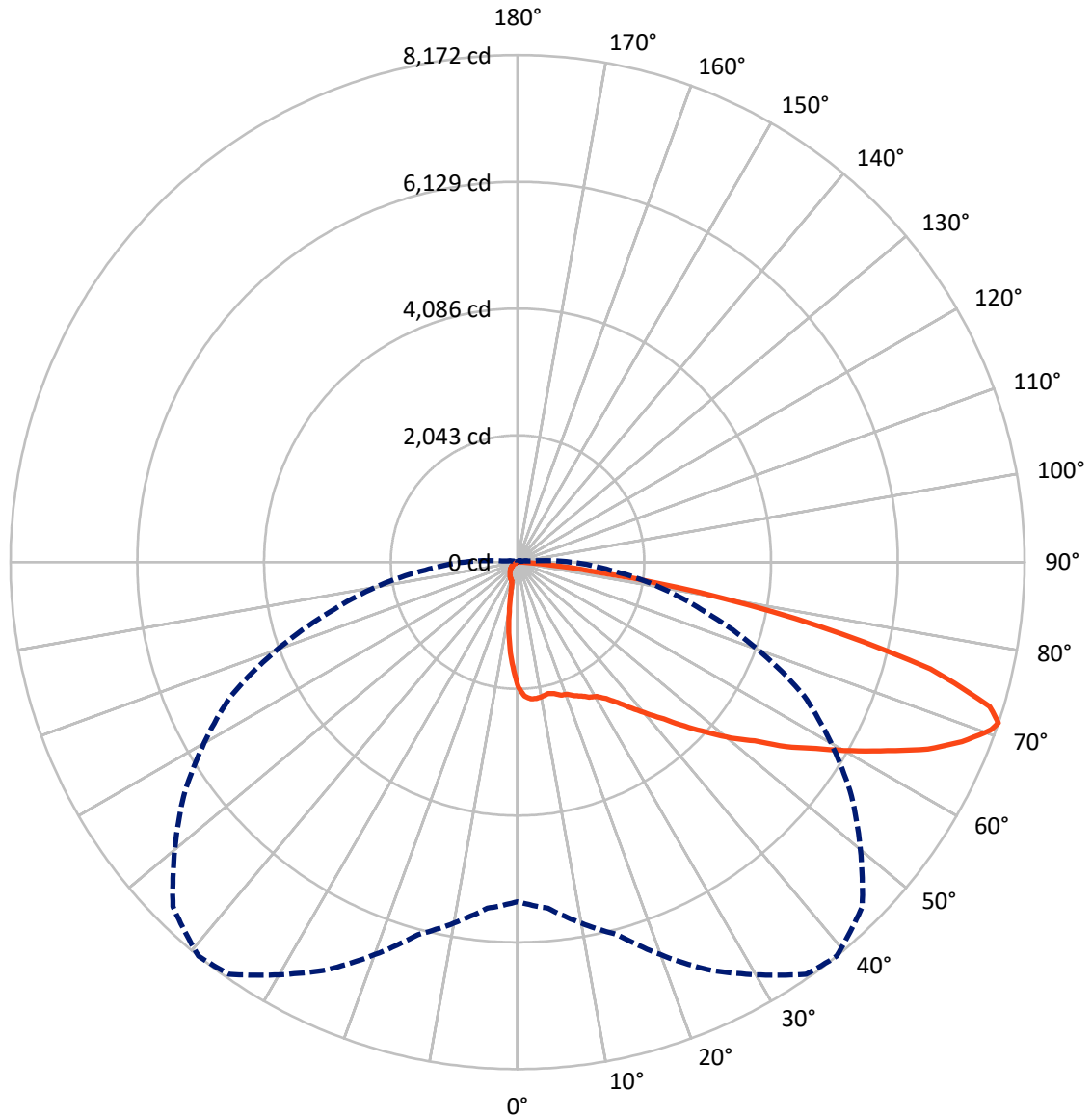
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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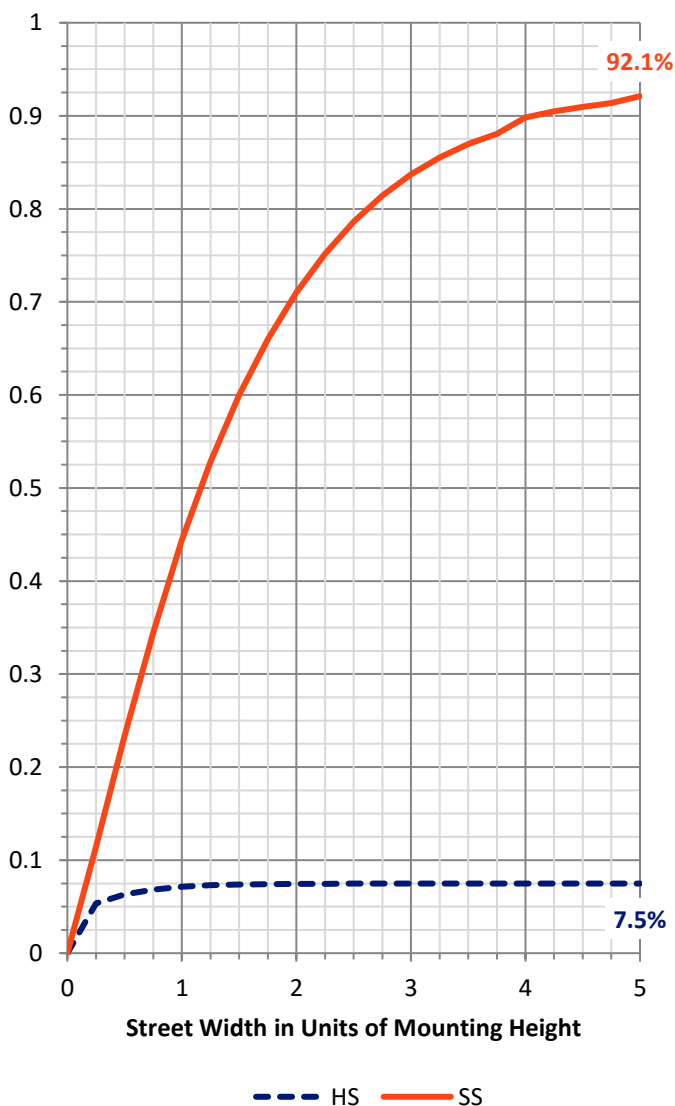
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	875.3	0.0	875.3
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	10751.2	0.0	10751.2
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	11626.4	0.0	11626.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.2	1.5
10°-20°	416.4	3.6
20°-30°	668.5	5.8
30°-40°	1023.3	8.8
40°-50°	1642.6	14.1
50°-60°	2412.8	20.8
60°-70°	3038.8	26.1
70°-80°	2028.0	17.4
80°-90°	226.6	1.9
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°	11626.4	100.0
0°-180°	11626.4	100.0

**Coefficient of Utilization**



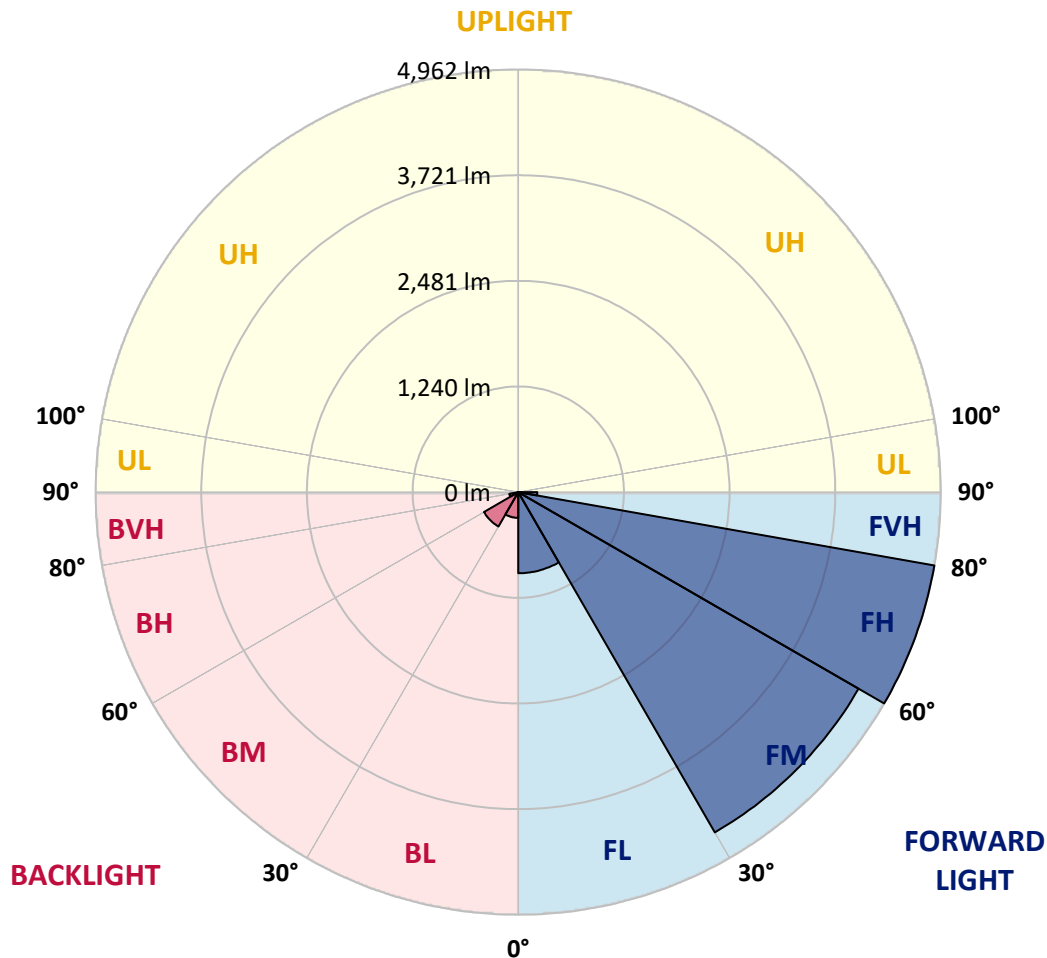
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	952.0	8.2			
FM (30°-60°)	4613.5	39.7			
FH (60°-80°)	4961.5	42.7			G2/5000
FVH (80°-90°)	224.1	1.9			G2/225
BL (0°-30°)	302.2	2.6	B1/500		
BM (30°-60°)	465.2	4.0	B1/1000		
BH (60°-80°)	105.3	0.9	B0/110		G0/110
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2023.7	2023.7	2023.7	2023.7	2023.7	2023.7	2023.7	2023.7	2023.7	2023.7	2023.7
2.5°	2180.7	2202.1	2180.7	2171.6	2162.4	2164.0	2139.6	2144.1	2115.2	2077.0	2046.5
5°	2249.4	2278.3	2255.5	2244.8	2243.3	2214.3	2202.1	2173.1	2138.0	2078.6	2042.0
7.5°	2243.3	2237.2	2247.8	2238.7	2218.9	2218.9	2205.1	2164.0	2128.9	2061.8	1999.3
10°	2197.5	2215.8	2206.7	2196.0	2200.6	2202.1	2176.2	2147.2	2136.5	2069.4	1967.2
12.5°	2192.9	2162.4	2196.0	2197.5	2177.7	2176.2	2173.1	2165.5	2131.9	2070.9	1974.9
15°	2177.7	2165.5	2199.0	2200.6	2205.1	2200.6	2205.1	2199.0	2165.5	2130.4	2008.4
17.5°	2189.9	2176.2	2223.4	2246.3	2235.6	2257.0	2249.4	2221.9	2192.9	2151.8	2040.4
20°	2192.9	2212.8	2264.6	2273.8	2307.3	2272.2	2270.7	2241.7	2223.4	2179.2	2060.3
22.5°	2249.4	2258.5	2322.6	2342.4	2343.9	2339.3	2301.2	2267.7	2260.0	2205.1	2064.8
25°	2334.8	2366.8	2395.8	2408.0	2412.5	2391.2	2351.5	2308.8	2290.5	2255.5	2112.1
27.5°	2485.7	2465.9	2491.8	2510.1	2458.3	2465.9	2415.6	2379.0	2353.1	2322.6	2167.0
30°	2619.9	2601.6	2603.2	2600.1	2555.9	2514.7	2501.0	2436.9	2404.9	2417.1	2252.4
32.5°	2740.4	2700.8	2734.3	2719.1	2636.7	2624.5	2613.8	2533.0	2539.1	2595.5	2380.5
35°	2851.7	2838.0	2865.4	2838.0	2783.1	2780.0	2769.4	2699.2	2732.8	2813.6	2600.1
37.5°	2953.9	2958.5	2992.0	2978.3	2982.9	2985.9	2979.8	2905.1	3001.2	3182.6	2856.3
40°	3048.4	3042.3	3124.7	3167.4	3176.5	3210.1	3210.1	3191.8	3339.7	3544.1	3211.6
42.5°	3149.1	3164.3	3271.1	3342.8	3429.7	3458.7	3498.3	3507.5	3736.2	3969.5	3574.6
45°	3313.8	3287.9	3423.6	3592.9	3669.1	3771.3	3832.3	3884.1	4160.2	4480.4	3937.5
47.5°	3522.7	3470.9	3589.8	3835.3	4012.2	4096.1	4205.9	4274.5	4544.5	4875.4	4280.6
50°	3754.5	3701.1	3759.1	4097.6	4303.5	4456.0	4596.3	4683.2	5009.6	5317.6	4530.7
52.5°	4016.8	3968.0	3977.2	4370.6	4674.1	4785.4	4969.9	5099.6	5424.4	5584.5	4619.2
55°	4295.9	4283.7	4254.7	4637.5	4998.9	5249.0	5360.3	5515.9	5849.8	5729.4	4715.3
57.5°	4576.5	4538.4	4579.5	4991.3	5520.4	5669.9	5823.9	5916.9	6086.2	5855.9	4678.7
60°	4840.3	4843.4	4901.3	5375.6	5964.2	6176.2	6315.0	6258.5	6328.7	5910.8	4594.8
62.5°	5063.0	5056.9	5203.3	5807.1	6551.3	6694.7	6798.4	6546.8	6441.5	5964.2	4448.4
65°	5262.7	5331.4	5561.6	6321.1	7103.4	7268.1	7205.6	6819.7	6551.3	5807.1	4036.6
67.5°	5413.7	5515.9	5915.4	6804.5	7609.7	7725.6	7638.7	7027.1	6421.7	5191.1	3287.9
70°	5502.1	5605.8	6168.6	7207.1	8013.8	8097.7	7893.3	6867.0	5665.3	3759.1	2051.1
71°	5474.7	5601.3	6217.4	7249.8	8109.9	8172.4	7855.2	6571.2	5095.0	3147.6	1496.0
72.5°	5226.1	5345.1	6014.5	7219.3	7994.0	7955.9	7557.8	5860.5	4010.7	2006.9	773.2
75°	3839.9	3968.0	5162.1	6244.8	7135.4	6873.1	6116.7	4112.9	2092.3	614.6	225.7
77.5°	1912.3	1933.7	3204.0	4533.8	5233.8	4973.0	4099.2	2293.6	782.3	181.5	112.8
80°	881.4	887.5	1201.7	2348.5	3164.3	2978.3	2296.6	1131.5	353.8	96.1	88.4
82.5°	600.8	610.0	724.4	972.9	1374.0	1159.0	930.2	724.4	202.8	57.9	86.9
85°	109.8	100.6	405.6	515.4	530.7	359.9	321.8	626.8	76.2	33.5	76.2
87.5°	0.0	1.5	56.4	210.4	189.1	83.9	109.8	152.5	7.6	10.7	13.7
90°	0.0	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2023.7	2023.7	2023.7	2023.7	2023.7	2023.7	2023.7	2023.7	2023.7	2023.7	2023.7
2.5°	2020.6	2003.8	1947.4	1884.9	1828.5	1784.2	1727.8	1701.9	1660.7	1637.8	1636.3
5°	1991.6	1945.9	1848.3	1743.1	1625.6	1528.0	1419.8	1358.8	1288.6	1267.3	1262.7
7.5°	1942.8	1877.3	1733.9	1586.0	1406.0	1233.7	1101.0	959.2	872.3	835.7	822.0
10°	1912.3	1833.0	1637.8	1416.7	1165.1	922.6	736.6	585.6	506.3	468.2	459.0
12.5°	1912.3	1826.9	1560.1	1255.1	921.1	631.3	456.0	369.0	343.1	334.0	334.0
15°	1907.8	1814.7	1485.3	1088.8	681.7	423.9	340.1	321.8	318.7	317.2	315.7
17.5°	1930.6	1793.4	1409.1	910.4	481.9	334.0	312.6	309.6	306.5	306.5	303.5
20°	1947.4	1781.2	1317.6	721.3	359.9	309.6	300.4	295.8	294.3	292.8	295.8
22.5°	1933.7	1762.9	1204.7	539.8	314.1	294.3	288.2	283.6	280.6	280.6	282.1
25°	1959.6	1746.1	1091.9	407.2	294.3	280.6	274.5	271.4	269.9	268.4	265.3
27.5°	1994.7	1753.7	957.7	327.9	277.5	266.9	260.8	257.7	256.2	253.1	256.2
30°	2037.4	1752.2	809.8	286.7	262.3	251.6	245.5	244.0	240.9	239.4	240.9
32.5°	2110.6	1791.9	657.3	265.3	245.5	236.4	230.3	228.7	227.2	225.7	224.2
35°	2267.7	1840.7	513.9	248.6	230.3	219.6	215.0	212.0	210.4	208.9	207.4
37.5°	2461.3	1948.9	391.9	233.3	215.0	204.3	199.8	198.2	192.1	190.6	189.1
40°	2703.8	2064.8	301.9	216.5	201.3	190.6	186.0	181.5	173.8	170.8	167.7
42.5°	3005.7	2177.7	248.6	201.3	186.0	178.4	170.8	163.2	157.1	151.0	147.9
45°	3307.7	2308.8	218.1	187.6	173.8	164.7	158.6	147.9	137.2	128.1	126.6
47.5°	3559.3	2356.1	199.8	172.3	161.6	154.0	144.9	131.1	115.9	106.7	105.2
50°	3746.9	2328.7	181.5	157.1	147.9	140.3	128.1	111.3	96.1	86.9	83.9
52.5°	3783.5	2208.2	164.7	144.9	134.2	125.0	111.3	93.0	76.2	67.1	65.6
55°	3757.6	2008.4	151.0	134.2	122.0	108.3	93.0	74.7	59.5	50.3	48.8
57.5°	3704.2	1772.0	135.7	120.5	106.7	93.0	76.2	61.0	44.2	35.1	35.1
60°	3522.7	1450.3	120.5	105.2	91.5	79.3	62.5	44.2	30.5	22.9	21.3
62.5°	3269.6	1114.8	105.2	90.0	79.3	65.6	48.8	32.0	18.3	12.2	12.2
65°	2807.5	780.8	88.4	74.7	65.6	53.4	36.6	19.8	10.7	4.6	4.6
67.5°	2133.5	483.4	73.2	62.5	56.4	42.7	25.9	12.2	4.6	1.5	0.0
70°	1224.6	251.6	57.9	50.3	44.2	32.0	18.3	6.1	3.0	0.0	0.0
71°	855.5	186.0	51.8	44.2	39.6	29.0	15.2	4.6	1.5	0.0	0.0
72.5°	428.5	123.5	44.2	36.6	32.0	22.9	12.2	4.6	1.5	0.0	0.0
75°	152.5	79.3	30.5	24.4	22.9	16.8	7.6	3.0	1.5	0.0	0.0
77.5°	105.2	64.0	21.3	15.2	15.2	10.7	4.6	1.5	1.5	0.0	0.0
80°	96.1	35.1	13.7	9.1	7.6	6.1	3.0	1.5	0.0	0.0	0.0
82.5°	96.1	25.9	7.6	6.1	4.6	3.0	1.5	0.0	0.0	0.0	0.0
85°	67.1	13.7	4.6	4.6	3.0	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	10.7	4.6	3.0	1.5	1.5	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	0.0

(END OF REPORT)