

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: P480610

Luminaire Tested: **IFLD-S-SA2C-827-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480610  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-827-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

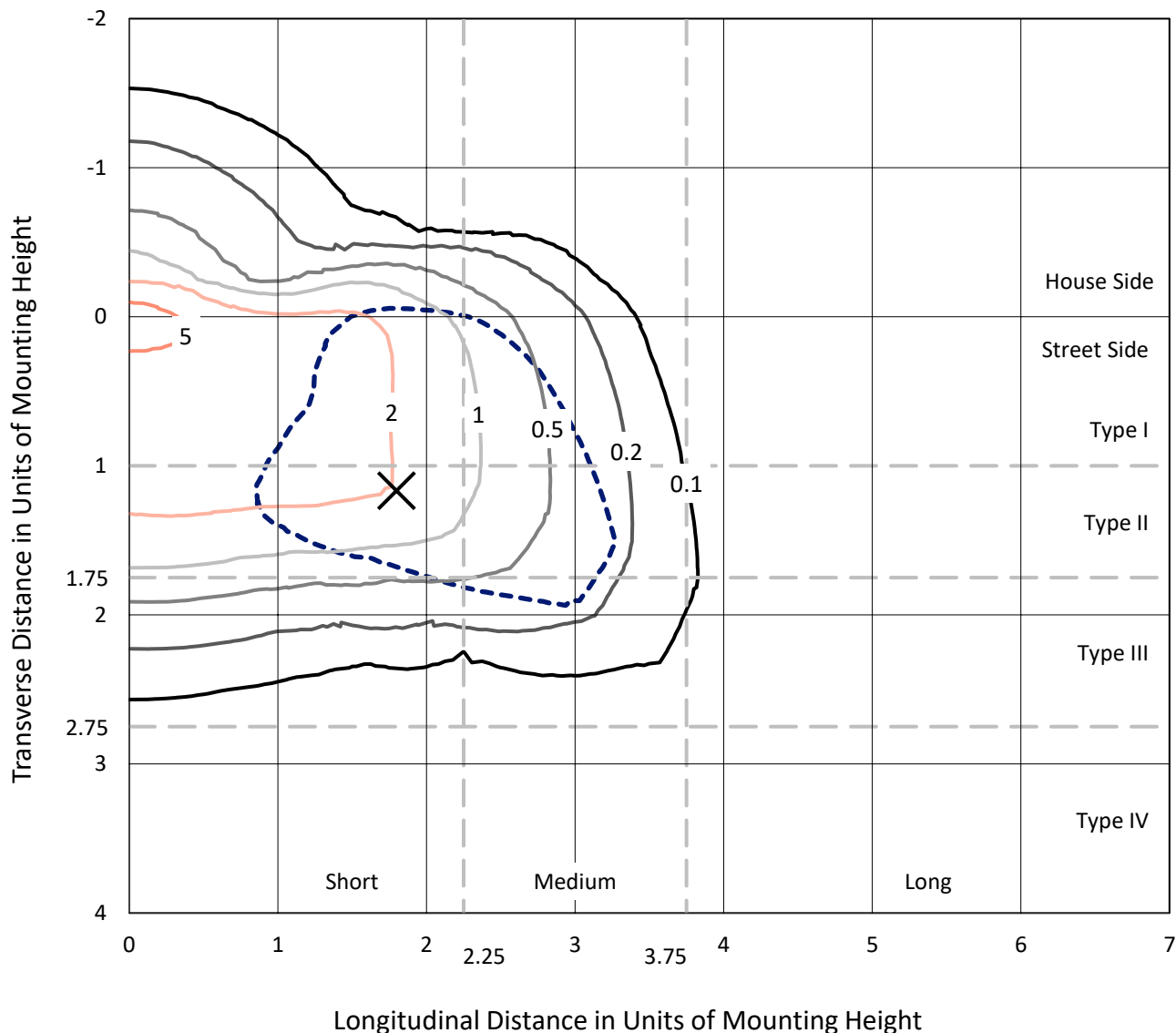
Lumens per Lamp: N/A  
Luminaire Lumens: 10309.6 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2  
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

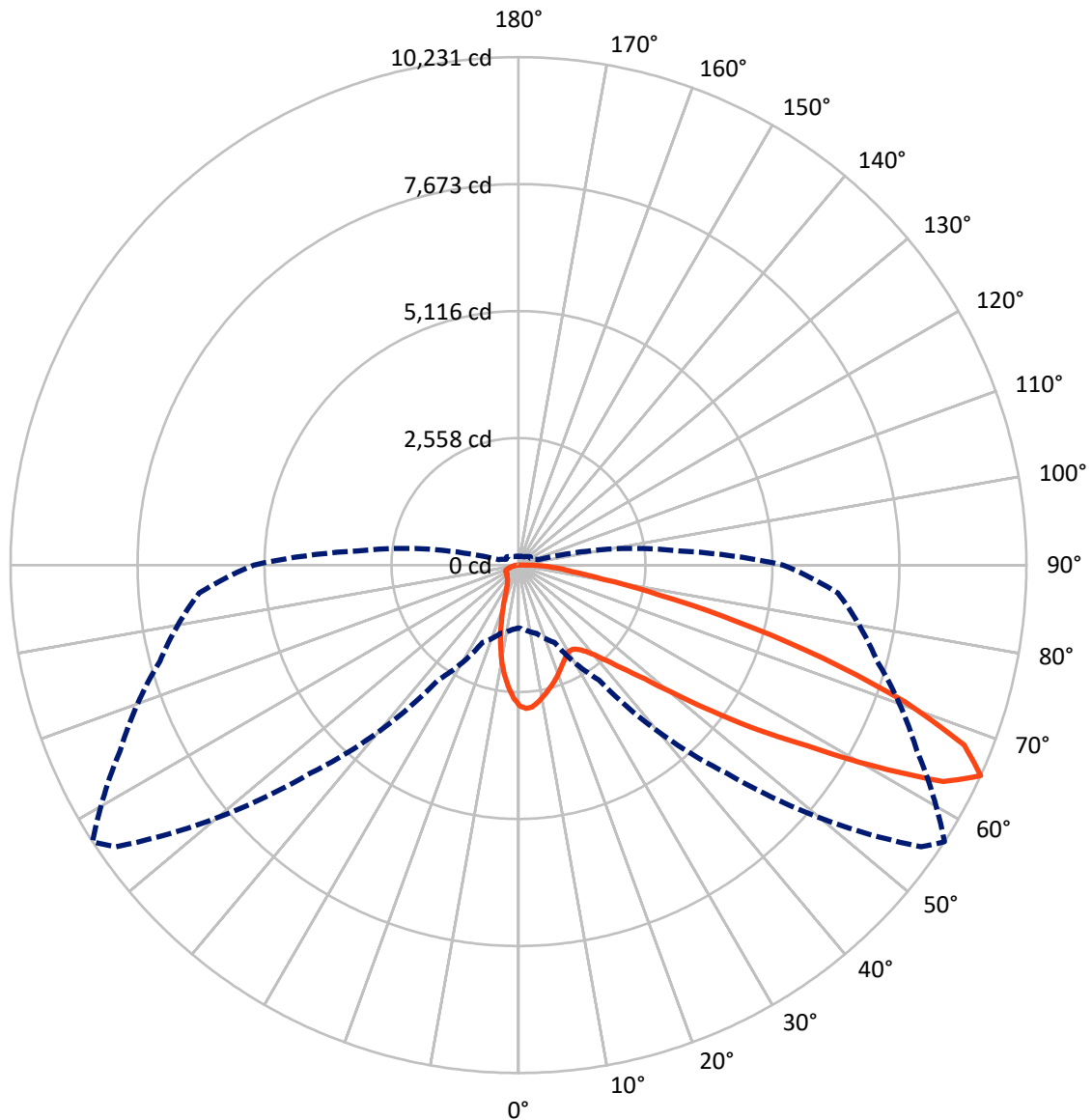
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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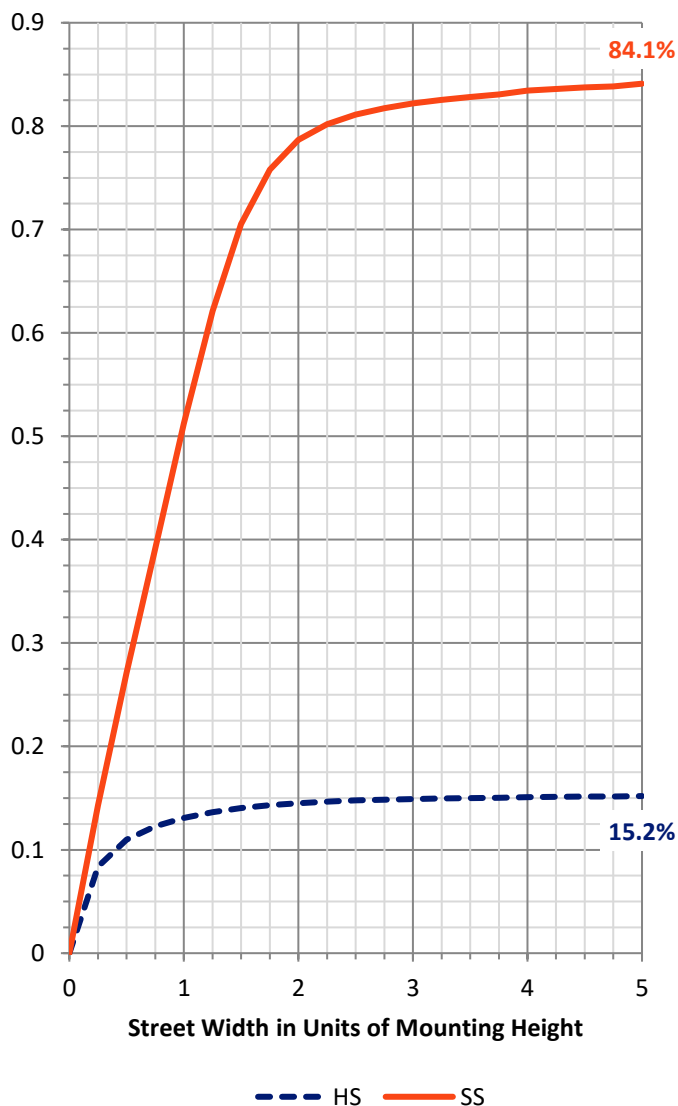
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1581.1	0.0	1581.1
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	8728.5	0.0	8728.5
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	10309.6	0.0	10309.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.4	2.3
10°-20°	510.9	5.0
20°-30°	660.6	6.4
30°-40°	889.0	8.6
40°-50°	1417.5	13.7
50°-60°	2503.6	24.3
60°-70°	2754.3	26.7
70°-80°	1152.2	11.2
80°-90°	184.1	1.8
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°	10309.6	100.0
0°-180°	10309.6	100.0

**Coefficient of Utilization**



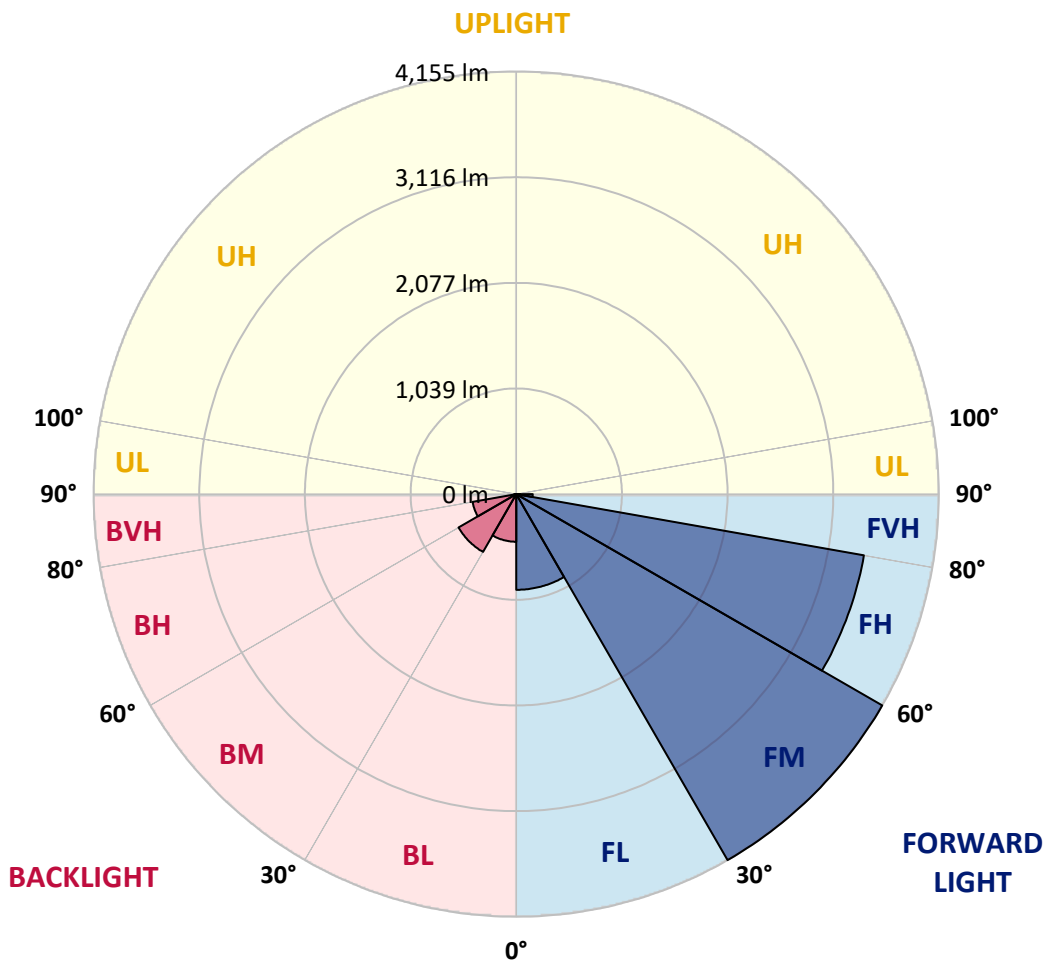
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	940.7	9.1			
FM (30°-60°)	4154.7	40.3			
FH (60°-80°)	3470.5	33.7			G2/5000
FVH (80°-90°)	162.5	1.6			G2/225
BL (0°-30°)	468.2	4.5	B1/500		
BM (30°-60°)	655.3	6.4	B1/1000		
BH (60°-80°)	436.0	4.2	B1/500		G1/500
BVH (80°-90°)	21.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2835.0	2835.0	2835.0	2835.0	2835.0	2835.0	2835.0	2835.0	2835.0	2835.0	2835.0
2.5°	2911.5	2916.2	2916.2	2925.5	2894.1	2909.2	2906.9	2893.0	2897.6	2873.3	2848.9
5°	2829.2	2825.7	2844.3	2846.6	2870.9	2877.9	2883.7	2874.4	2876.7	2823.4	2800.2
7.5°	2618.1	2616.9	2648.2	2674.9	2726.0	2773.5	2804.8	2795.5	2808.3	2774.7	2720.2
10°	2367.5	2394.2	2426.7	2453.4	2547.3	2607.6	2688.8	2697.0	2745.7	2737.5	2639.0
12.5°	2179.6	2191.2	2215.6	2292.1	2378.0	2477.7	2593.7	2604.2	2651.7	2674.9	2589.1
15°	2025.3	2035.8	2067.1	2123.9	2220.2	2338.5	2485.8	2512.5	2607.6	2615.8	2524.1
17.5°	1912.8	1920.9	1941.8	1998.6	2077.5	2229.5	2368.7	2416.2	2541.5	2581.0	2456.8
20°	1868.7	1851.3	1862.9	1898.9	1977.8	2094.9	2274.7	2316.5	2476.6	2554.3	2393.0
22.5°	1849.0	1833.9	1840.9	1838.6	1901.2	1984.7	2173.8	2217.9	2415.1	2523.0	2336.2
25°	1864.1	1864.1	1857.1	1851.3	1858.3	1912.8	2064.8	2133.2	2332.7	2496.3	2278.2
27.5°	1945.3	1914.0	1917.4	1893.1	1886.1	1886.1	2016.0	2056.6	2306.0	2481.2	2230.6
30°	1997.5	2012.6	2013.7	1977.8	1941.8	1876.8	1970.8	2010.2	2284.0	2499.8	2202.8
32.5°	2130.9	2123.9	2104.2	2097.2	2043.9	1970.8	1992.8	2019.5	2271.2	2541.5	2210.9
35°	2264.3	2260.8	2262.0	2258.5	2202.8	2094.9	2052.0	2088.0	2294.4	2614.6	2238.8
37.5°	2402.3	2411.6	2451.0	2451.0	2391.9	2274.7	2217.9	2207.4	2379.1	2734.1	2304.9
40°	2540.4	2563.6	2613.4	2692.3	2608.8	2499.8	2408.1	2391.9	2481.2	2894.1	2463.8
42.5°	2672.6	2710.9	2809.5	2926.6	2898.8	2789.7	2668.0	2649.4	2691.2	3131.9	2685.4
45°	2841.9	2874.4	3029.9	3209.7	3247.9	3151.7	3009.0	2993.9	2991.6	3479.9	2990.4
47.5°	3099.5	3134.3	3289.7	3470.7	3589.0	3604.1	3444.0	3427.7	3372.1	3949.7	3437.0
50°	3421.9	3478.8	3609.9	3821.0	3992.6	4153.9	4108.6	4061.1	3952.0	4496.1	4003.1
52.5°	3657.4	3727.0	3904.5	4174.8	4477.5	4733.9	4896.3	4896.3	4645.7	5095.8	4684.0
55°	3720.1	3761.8	3985.7	4376.6	4895.1	5543.5	5883.4	5857.9	5471.6	5726.8	5476.3
57.5°	3470.7	3525.2	3796.6	4206.1	5114.3	6301.0	6863.6	6869.4	6374.1	6459.9	6258.1
60°	2783.9	2801.3	3121.5	3669.0	4903.2	6911.2	8202.2	8224.2	7400.7	7113.0	6656.0
62.5°	1924.4	1980.1	2221.4	2701.6	4062.2	6842.7	9493.3	9602.3	8223.1	7457.5	6718.6
65°	1266.7	1300.3	1429.1	1721.4	2828.0	5931.0	9894.6	10231.0	8851.8	7477.2	6456.4
67.5°	918.7	924.5	962.8	1113.6	1699.4	4265.2	9209.1	9683.5	9087.3	7312.5	5841.7
70°	742.4	747.0	760.9	857.2	1097.3	2669.1	7510.9	8254.4	8380.8	6531.8	4704.9
72.5°	603.2	609.0	626.4	716.9	904.8	1484.8	5492.5	6398.4	6817.2	4832.5	3127.3
75°	474.4	479.1	520.8	610.1	850.3	1019.6	3643.5	4530.9	4587.7	2824.5	1463.9
77.5°	324.8	332.9	384.0	517.4	800.4	892.0	2271.2	2902.3	2604.2	1105.5	503.4
80°	206.5	218.1	248.2	392.1	707.6	851.4	1412.9	1733.0	1140.3	378.2	242.4
82.5°	121.8	133.4	163.6	254.0	555.6	789.9	995.3	1084.6	534.8	193.7	146.2
85°	67.3	75.4	98.6	153.1	326.0	701.8	796.9	778.3	306.2	103.2	91.6
87.5°	22.0	25.5	36.0	61.5	134.6	330.6	477.9	448.9	158.9	47.6	36.0
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°	2835.0	2835.0	2835.0	2835.0	2835.0	2835.0	2835.0	2835.0	2835.0	2835.0	2835.0
2.5°	2832.7	2829.2	2777.0	2737.5	2670.3	2614.6	2592.6	2562.4	2561.2	2539.2	2533.4
5°	2764.2	2728.3	2648.2	2571.7	2452.2	2372.2	2299.1	2248.0	2227.2	2181.9	2171.5
7.5°	2676.1	2628.5	2505.6	2361.7	2221.4	2096.1	1982.4	1868.7	1804.9	1782.9	1758.5
10°	2584.4	2500.9	2318.8	2157.6	1961.5	1769.0	1590.3	1430.3	1343.3	1281.8	1255.1
12.5°	2511.4	2400.0	2168.0	1926.7	1668.0	1410.5	1202.9	1034.7	936.1	889.7	868.8
15°	2429.0	2281.7	2003.3	1698.2	1375.7	1083.4	880.4	748.2	708.7	686.7	683.2
17.5°	2342.0	2171.5	1824.6	1473.2	1090.4	815.5	684.4	631.0	613.6	604.3	599.7
20°	2260.8	2072.9	1641.4	1222.6	853.7	654.2	592.7	564.9	563.7	568.4	567.2
22.5°	2146.0	1944.1	1460.4	990.6	682.1	569.5	530.1	523.2	530.1	535.9	538.2
25°	2081.0	1838.6	1258.6	786.5	563.7	505.8	493.0	490.7	501.1	508.1	506.9
27.5°	2013.7	1729.5	1070.7	629.9	494.2	460.5	458.2	460.5	471.0	481.4	480.2
30°	1961.5	1642.5	894.3	526.6	440.8	428.0	425.7	428.0	433.8	435.0	435.0
32.5°	1918.6	1539.3	744.7	457.0	408.3	397.9	400.2	399.0	400.2	401.4	402.5
35°	1893.1	1477.8	621.7	414.1	381.6	373.5	372.4	368.9	370.0	371.2	370.0
37.5°	1947.6	1447.7	524.3	384.0	363.1	356.1	353.8	351.5	348.0	348.0	348.0
40°	2030.0	1431.4	465.2	364.2	349.2	341.0	334.1	331.8	331.8	332.9	334.1
42.5°	2193.5	1458.1	424.6	349.2	331.8	322.5	315.5	316.7	320.2	323.6	321.3
45°	2430.2	1539.3	406.0	337.6	321.3	308.6	303.9	302.8	306.2	312.0	316.7
47.5°	2739.9	1665.7	399.0	327.1	314.4	297.0	291.2	294.6	299.3	307.4	303.9
50°	3246.8	1949.9	404.8	317.8	303.9	291.2	284.2	280.7	284.2	290.0	292.3
52.5°	3909.1	2466.1	426.9	313.2	297.0	286.5	274.9	269.1	272.6	277.2	277.2
55°	4701.4	3171.4	488.4	307.4	285.4	279.6	266.8	255.2	257.5	257.5	256.4
57.5°	5399.7	3703.8	561.4	299.3	278.4	270.3	254.0	240.1	237.8	239.0	240.1
60°	5712.9	3845.3	596.2	297.0	278.4	258.7	236.6	222.7	219.2	216.9	216.9
62.5°	5658.4	3600.6	525.5	286.5	285.4	249.4	220.4	205.3	200.7	196.0	197.2
65°	5328.9	3251.4	414.1	272.6	286.5	243.6	204.2	189.1	181.0	175.2	174.0
67.5°	4726.9	2775.8	328.3	262.2	274.9	233.2	190.2	172.8	165.9	160.1	157.8
70°	3698.0	2176.1	285.4	248.2	247.1	207.6	174.0	158.9	148.5	141.5	141.5
72.5°	2397.7	1375.7	244.8	220.4	213.4	174.0	150.8	141.5	133.4	127.6	127.6
75°	1085.7	639.1	197.2	184.4	174.0	139.2	127.6	123.0	116.0	110.2	110.2
77.5°	389.8	272.6	147.3	145.0	129.9	107.9	103.2	99.8	95.1	89.3	89.3
80°	218.1	172.8	110.2	105.6	90.5	80.0	74.2	74.2	71.9	68.4	67.3
82.5°	138.0	112.5	81.2	70.8	59.2	53.4	51.0	49.9	48.7	44.1	42.9
85°	87.0	76.6	53.4	41.8	34.8	26.7	25.5	24.4	22.0	19.7	19.7
87.5°	39.4	44.1	20.9	12.8	9.3	5.8	3.5	1.2	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)