

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: P476481

Luminaire Tested: **IFLD-S-SA3C-727-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476481  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-727-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

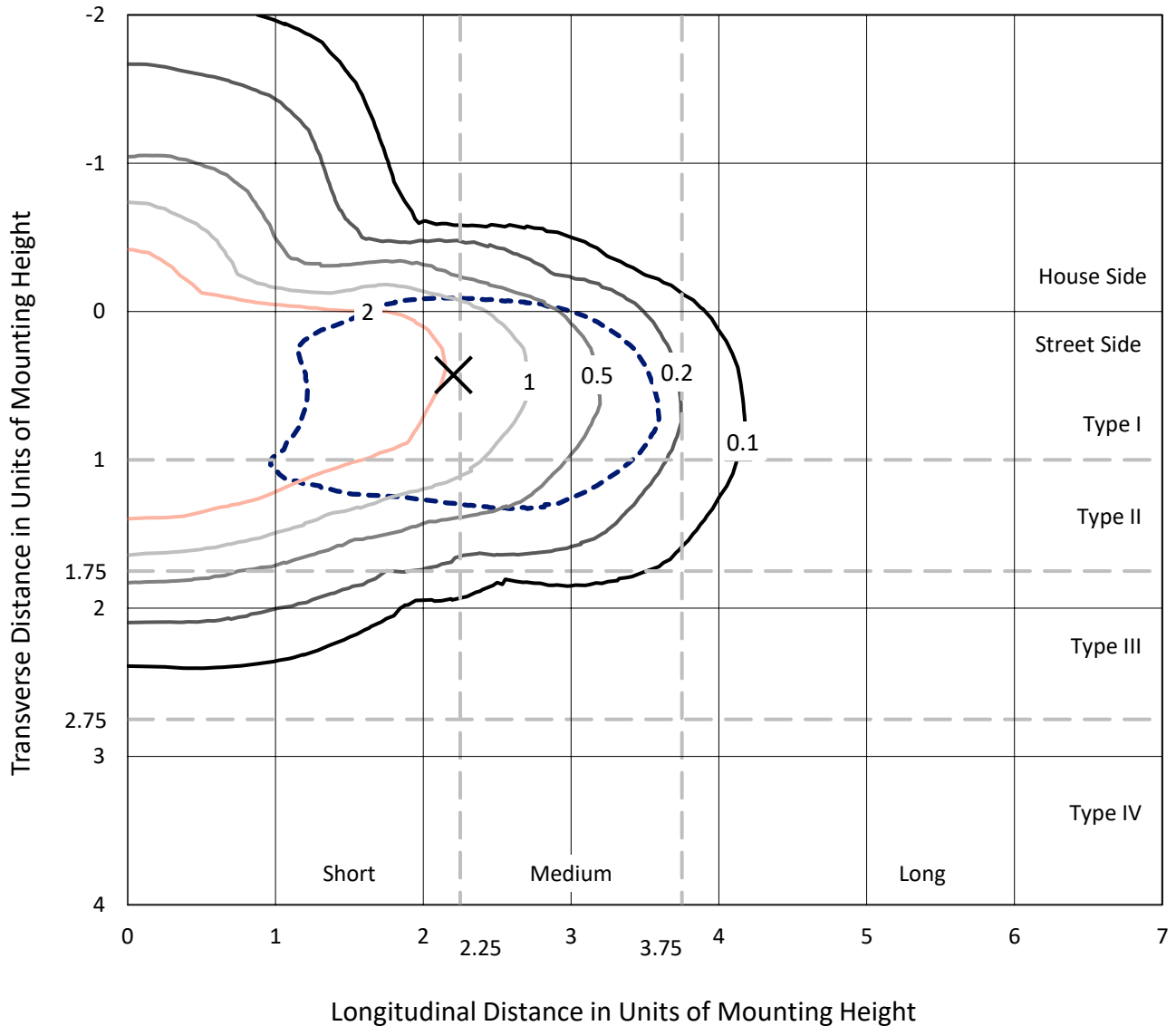
Lumens per Lamp: N/A  
Luminaire Lumens: 17693.1 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 160.8  
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

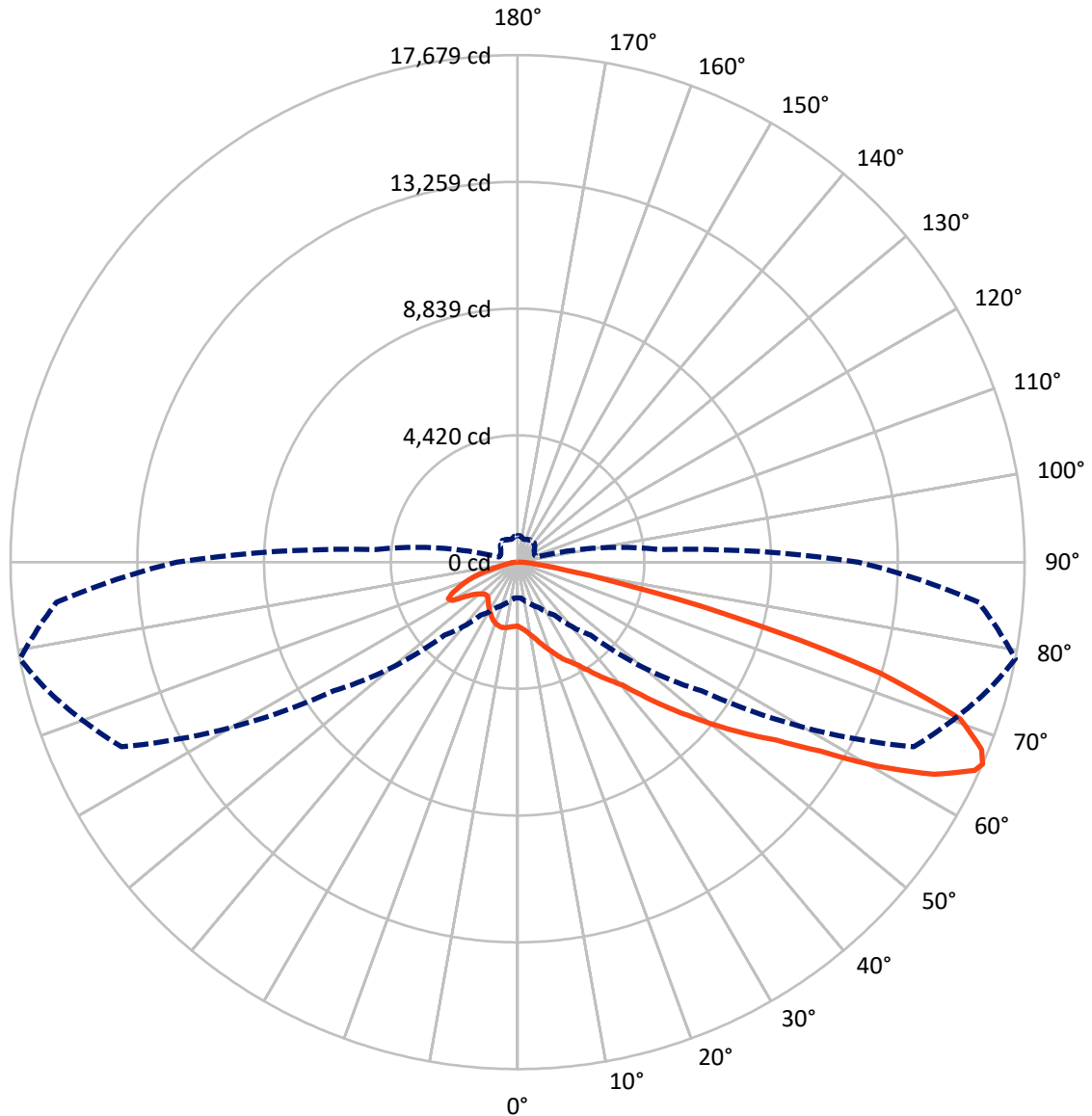
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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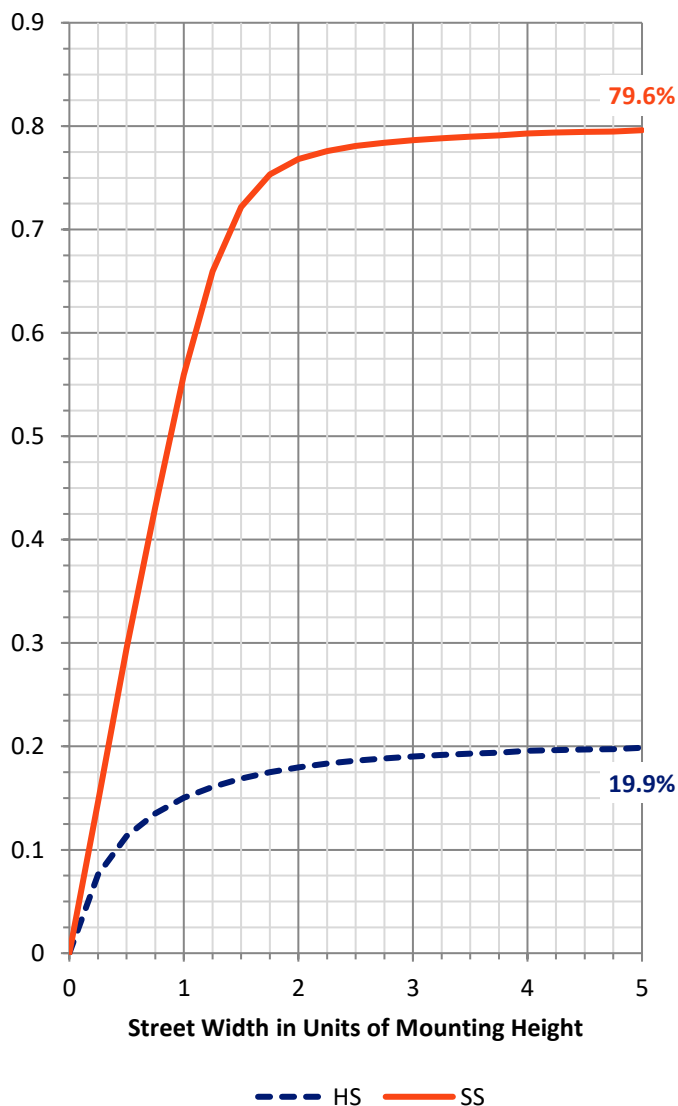
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3572.9	0.0	3572.9
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	14120.2	0.0	14120.2
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	17693.1	0.0	17693.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.7	1.2
10°-20°	678.4	3.8
20°-30°	1164.4	6.6
30°-40°	1798.8	10.2
40°-50°	2881.3	16.3
50°-60°	4302.0	24.3
60°-70°	4420.3	25.0
70°-80°	1959.4	11.1
80°-90°	268.9	1.5
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°	17693.1	100.0
0°-180°	17693.1	100.0

**Coefficient of Utilization**



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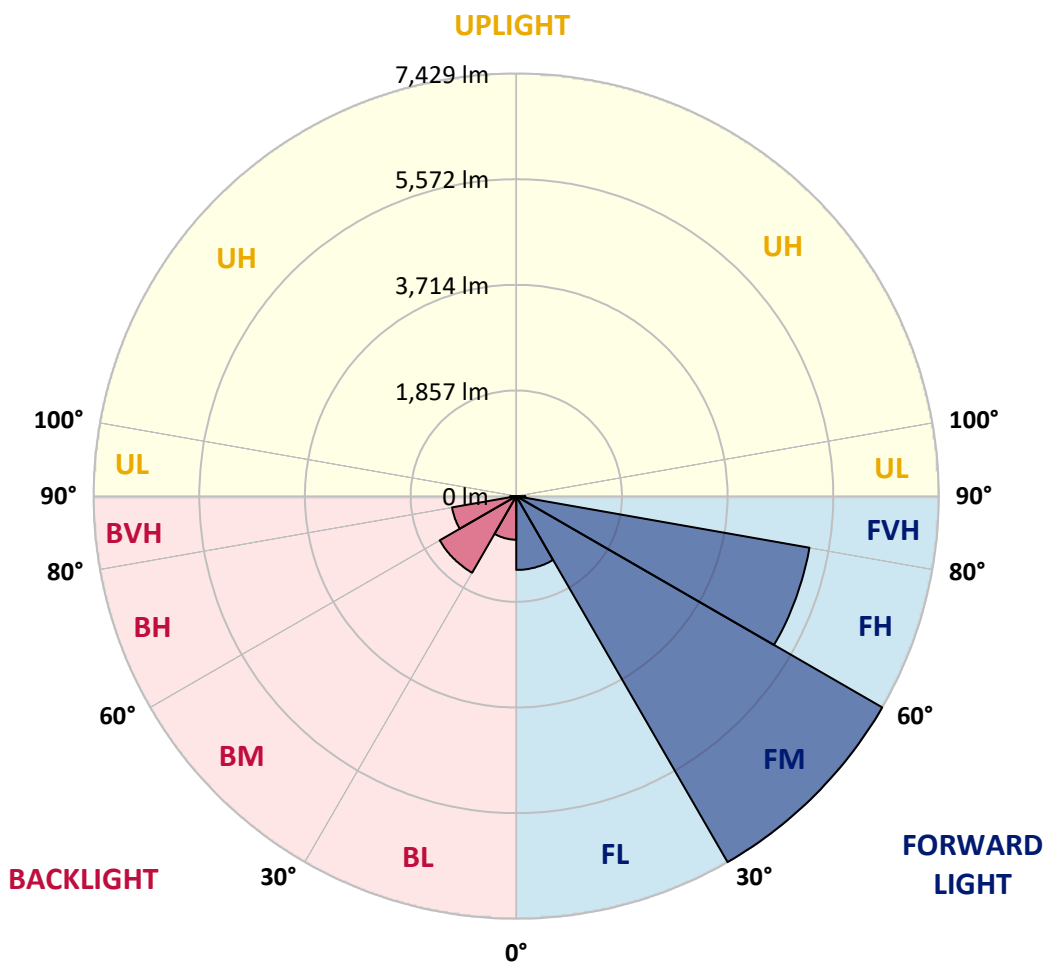
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1297.0	7.3			
FM (30°-60°)	7428.7	42.0			
FH (60°-80°)	5233.2	29.6			G3/7500
FVH (80°-90°)	161.3	0.9			G2/225
BL (0°-30°)	765.5	4.3	B2/1000		
BM (30°-60°)	1553.3	8.8	B2/2500		
BH (60°-80°)	1146.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	107.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2234.1	2234.1	2234.1	2234.1	2234.1	2234.1	2234.1	2234.1	2234.1	2234.1	2234.1
2.5°	2376.2	2378.2	2378.2	2370.4	2372.3	2378.2	2356.8	2310.0	2310.0	2302.3	2288.6
5°	2522.2	2512.4	2498.8	2500.8	2493.0	2493.0	2469.6	2424.9	2385.9	2370.4	2329.5
7.5°	2541.6	2551.4	2549.4	2572.8	2584.5	2584.5	2596.1	2559.2	2500.8	2463.8	2422.9
10°	2580.6	2555.3	2553.3	2607.8	2625.3	2666.2	2712.9	2693.4	2644.8	2592.2	2537.7
12.5°	2603.9	2619.5	2619.5	2646.7	2687.6	2747.9	2829.7	2866.6	2790.7	2736.2	2652.6
15°	2638.9	2617.5	2679.8	2703.2	2781.0	2823.8	2940.6	3036.0	2985.4	2919.2	2786.8
17.5°	2654.5	2640.9	2675.9	2718.7	2851.1	2915.3	3057.4	3189.7	3146.9	3104.1	2967.8
20°	2734.3	2732.4	2747.9	2783.0	2878.3	3004.8	3181.9	3364.8	3380.4	3302.6	3117.7
22.5°	2928.9	2903.6	2903.6	2890.0	2930.9	3061.3	3300.6	3553.6	3623.7	3532.2	3287.0
25°	3108.0	3143.0	3121.6	3059.3	3043.7	3111.9	3386.3	3754.1	3847.5	3761.9	3516.6
27.5°	3337.6	3349.3	3386.3	3302.6	3195.5	3216.9	3479.7	3866.9	4059.6	3944.8	3647.0
30°	3668.4	3647.0	3639.2	3545.8	3405.7	3376.5	3586.7	4032.4	4337.9	4176.4	3800.8
32.5°	3892.2	3944.8	3942.8	3814.4	3645.1	3580.9	3719.0	4188.1	4635.7	4485.8	4084.9
35°	4336.0	4390.5	4347.6	4158.9	3960.4	3831.9	3909.8	4390.5	4976.2	4859.5	4326.2
37.5°	4902.3	5030.7	4939.3	4590.9	4310.7	4170.5	4174.4	4610.4	5324.6	5229.2	4585.1
40°	5293.5	5466.7	5340.2	5013.2	4715.5	4583.1	4530.6	4871.1	5741.1	5639.9	4989.9
42.5°	5778.0	5922.1	5855.9	5532.8	5184.5	5071.6	4966.5	5307.1	6377.4	6330.7	5509.5
45°	6307.4	6375.5	6354.1	6149.7	5762.5	5723.5	5492.0	5881.2	7126.7	7146.2	6159.5
47.5°	6799.8	6836.7	6877.6	6729.7	6488.4	6521.5	6097.2	6496.2	7854.6	7983.0	6883.4
50°	6926.3	7052.7	7148.1	7247.4	7299.9	7523.7	6764.7	7251.3	8691.4	8940.5	7689.1
52.5°	6797.8	6788.1	7078.0	7389.4	7914.9	8383.9	7673.6	8189.3	9430.9	9923.3	8426.7
55°	6214.0	6194.5	6661.6	7074.2	8099.8	8862.6	8971.6	9438.7	10324.2	10964.5	9425.1
57.5°	5192.3	5071.6	5581.5	6258.7	7698.9	8915.2	10275.5	11293.4	11698.1	12427.9	10948.9
60°	3489.4	3438.8	3927.3	4734.9	6250.9	8169.8	11055.9	13615.1	13634.5	14455.8	13313.4
62.5°	2148.5	2158.3	2471.6	3076.8	4376.8	6476.7	10719.2	15469.7	15473.6	16296.8	15259.5
65°	1405.1	1410.9	1663.9	1998.7	2734.3	4392.4	8864.6	15615.7	16752.2	17517.1	16150.9
66°	1251.4	1253.3	1471.3	1743.7	2265.3	3594.5	7829.3	15236.2	17040.3	17678.6	16139.2
67.5°	1054.8	1080.1	1255.2	1465.4	1767.1	2582.5	6212.0	14138.6	16892.3	17452.8	15773.3
70°	825.2	838.8	977.0	1191.0	1325.3	1494.6	3691.8	11524.9	15461.9	16370.8	14442.2
72.5°	661.7	673.4	778.4	967.2	1076.2	984.7	2010.3	8362.5	12213.9	13183.0	11359.5
75°	558.5	560.5	611.1	760.9	885.5	739.5	1070.4	5367.4	7837.0	8288.5	6959.3
77.5°	451.5	459.3	494.3	579.9	712.3	581.9	638.3	3006.8	3935.1	3968.1	3216.9
80°	367.8	371.7	393.1	422.3	543.0	430.1	432.0	1467.4	1687.3	1648.4	1307.8
82.5°	290.0	293.9	319.2	313.3	399.0	307.5	268.6	706.4	776.5	760.9	601.4
85°	163.5	163.5	251.0	251.0	253.0	194.6	163.5	332.8	410.6	383.4	282.2
87.5°	52.5	54.5	75.9	79.8	126.5	87.6	79.8	124.6	194.6	171.3	101.2
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°	2234.1	2234.1	2234.1	2234.1	2234.1	2234.1	2234.1	2234.1	2234.1	2234.1	2234.1
2.5°	2280.9	2249.7	2236.1	2191.3	2179.7	2150.5	2136.8	2119.3	2113.5	2088.2	2111.5
5°	2298.4	2288.6	2234.1	2177.7	2134.9	2115.4	2086.2	2047.3	2043.4	2008.4	2004.5
7.5°	2372.3	2339.2	2243.9	2183.5	2097.9	2049.3	1985.0	1965.6	1940.3	1928.6	1953.9
10°	2487.1	2403.5	2261.4	2109.6	2004.5	1946.1	1899.4	1885.8	1887.7	1880.0	1868.3
12.5°	2568.9	2489.1	2232.2	2047.3	1911.1	1854.7	1850.8	1864.4	1885.8	1876.1	1889.7
15°	2685.6	2535.8	2210.8	1944.2	1835.2	1819.6	1817.7	1858.5	1856.6	1856.6	1854.7
17.5°	2794.6	2582.5	2133.0	1854.7	1755.4	1767.1	1780.7	1778.8	1798.2	1806.0	1819.6
20°	2932.8	2637.0	2024.0	1765.1	1695.1	1691.2	1689.2	1691.2	1710.6	1722.3	1712.6
22.5°	3053.5	2648.7	1932.5	1679.5	1623.1	1607.5	1582.2	1607.5	1597.8	1601.7	1613.3
25°	3158.6	2650.6	1802.1	1615.3	1551.1	1516.0	1496.6	1494.6	1477.1	1475.2	1475.2
27.5°	3246.1	2584.5	1687.3	1525.8	1465.4	1432.3	1430.4	1409.0	1364.2	1335.0	1338.9
30°	3314.2	2533.9	1607.5	1447.9	1389.5	1383.7	1366.2	1317.5	1259.1	1222.2	1222.2
32.5°	3434.9	2432.7	1498.5	1368.1	1338.9	1331.1	1290.3	1247.5	1193.0	1157.9	1152.1
35°	3524.4	2339.2	1426.5	1300.0	1286.4	1270.8	1235.8	1189.1	1173.5	1165.7	1171.6
37.5°	3625.6	2234.1	1338.9	1241.6	1255.2	1226.1	1185.2	1163.8	1218.3	1204.7	1210.5
40°	3787.2	2160.2	1253.3	1206.6	1220.2	1187.1	1134.6	1126.8	1194.9	1146.3	1134.6
42.5°	4083.0	2158.3	1200.8	1154.1	1163.8	1138.5	1091.8	1087.9	1115.1	1056.7	1039.2
45°	4450.8	2226.4	1161.8	1115.1	1107.3	1103.5	1087.9	1070.4	1047.0	971.1	951.7
47.5°	4890.6	2337.3	1154.1	1056.7	1066.5	1099.6	1080.1	1035.3	975.0	926.4	916.6
50°	5423.8	2566.9	1134.6	1013.9	1031.4	1084.0	1068.4	1006.1	951.7	920.5	914.7
52.5°	6013.5	2856.9	1109.3	947.8	986.7	1070.4	1078.2	1019.8	940.0	912.7	908.8
55°	6708.3	3285.1	1080.1	875.8	934.1	1056.7	1078.2	980.8	924.4	924.4	920.5
57.5°	8080.3	4055.7	1019.8	809.6	887.4	1031.4	1047.0	982.8	926.4	926.4	918.6
60°	10092.6	5258.4	904.9	759.0	842.7	996.4	1023.7	953.6	904.9	916.6	914.7
62.5°	11667.0	5624.3	807.6	710.3	797.9	932.2	992.5	922.5	879.6	922.5	926.4
65°	12003.7	5254.5	708.4	657.8	735.6	869.9	947.8	877.7	842.7	926.4	930.2
66°	11883.0	4966.5	673.4	642.2	708.4	838.8	920.5	862.1	823.2	922.5	924.4
67.5°	11345.9	4534.5	634.4	609.1	671.4	794.0	889.4	840.7	792.1	910.8	893.3
70°	10178.2	3845.5	568.3	550.8	618.9	720.1	817.4	786.2	743.4	838.8	807.6
72.5°	7839.0	3072.9	498.2	500.2	558.5	644.2	745.4	724.0	687.0	735.6	716.2
75°	4773.8	1963.6	434.0	437.9	486.5	572.2	677.3	661.7	616.9	644.2	634.4
77.5°	2115.4	973.1	365.9	373.7	412.6	504.0	589.7	564.4	517.7	523.5	519.6
80°	821.3	461.2	297.8	307.5	332.8	402.8	488.5	465.1	424.3	416.5	412.6
82.5°	395.1	256.9	229.6	233.5	243.3	321.1	420.4	391.2	336.7	301.6	301.6
85°	198.5	159.6	161.5	147.9	161.5	218.0	284.1	237.4	196.6	175.2	179.0
87.5°	79.8	79.8	79.8	68.1	72.0	103.1	132.3	89.5	81.7	48.7	48.7
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)