

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: P476636

Luminaire Tested: **IFLD-S-SA3B-750-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476636  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-750-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

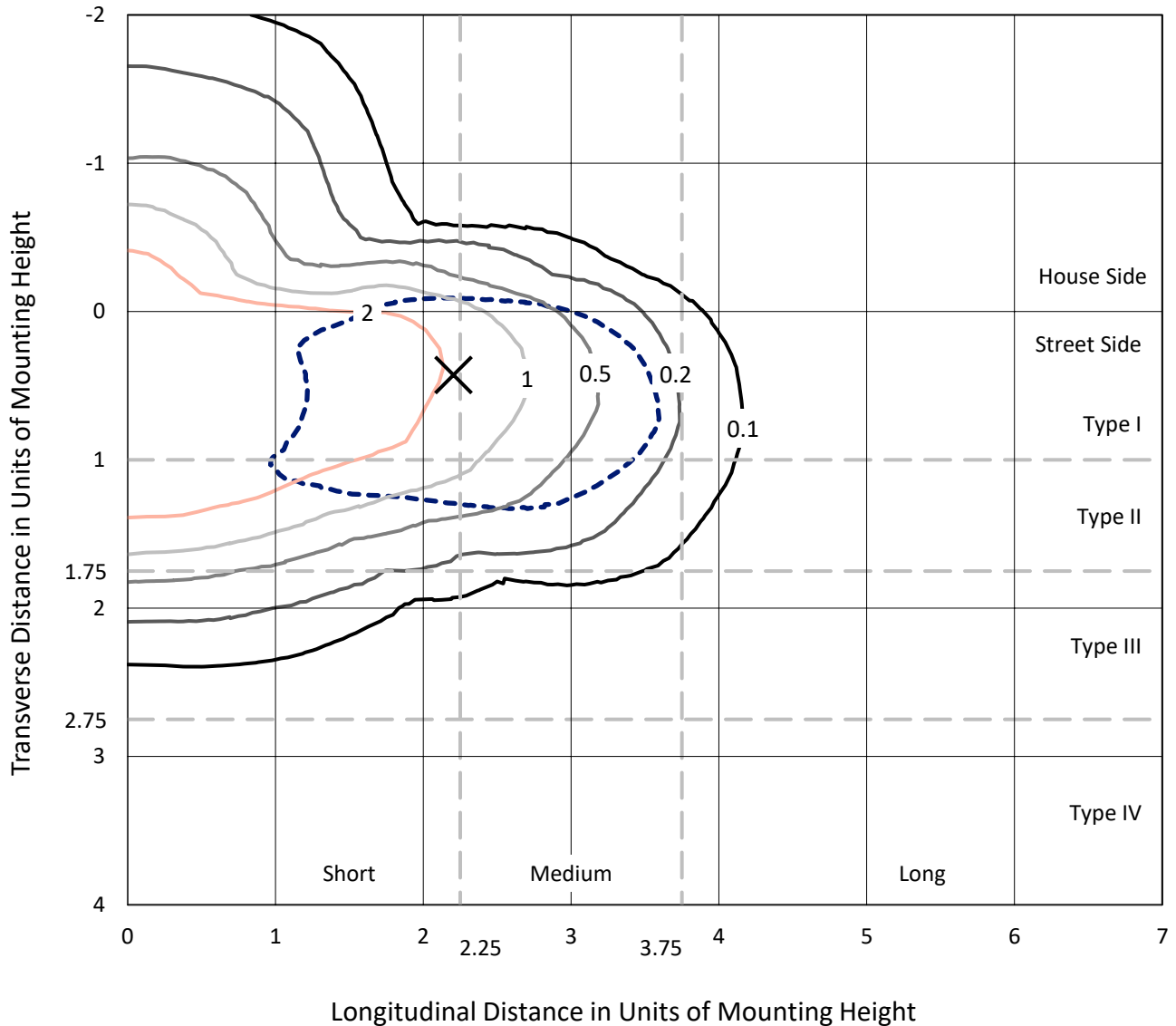
Lumens per Lamp: N/A  
Luminaire Lumens: 17384.5 lumens  
Efficiency: N/A  
Efficacy: 142.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 122.4  
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

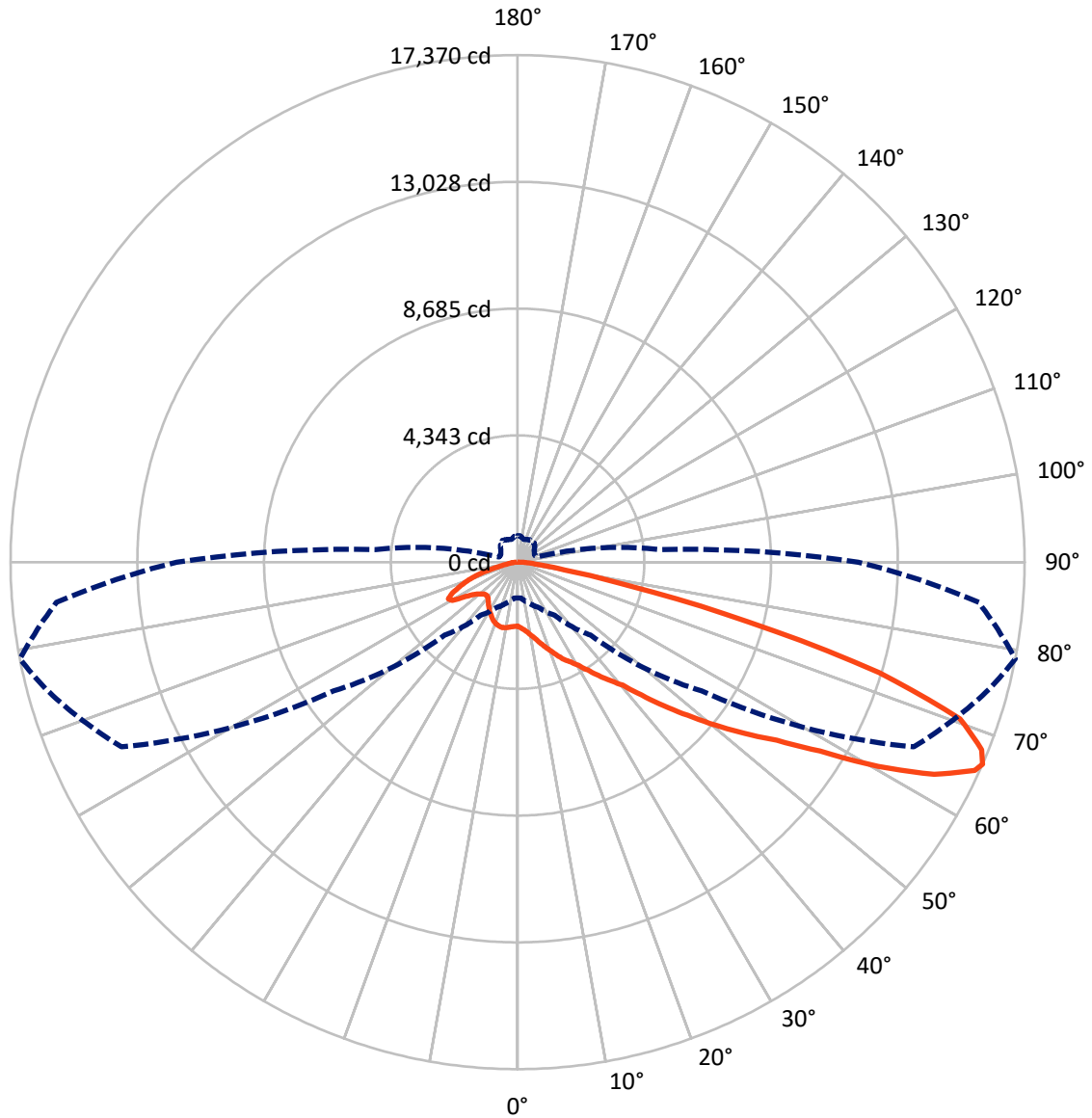
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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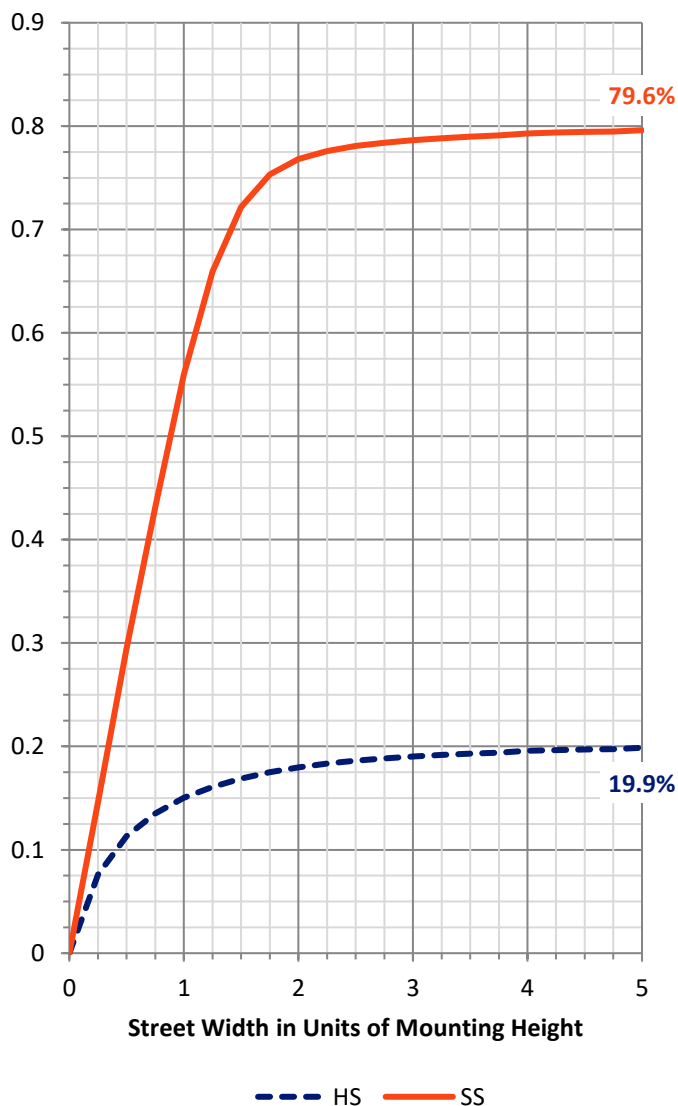
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3510.6	0.0	3510.6
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	13874.0	0.0	13874.0
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	17384.5	0.0	17384.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.9	1.2
10°-20°	666.5	3.8
20°-30°	1144.1	6.6
30°-40°	1767.5	10.2
40°-50°	2831.0	16.3
50°-60°	4226.9	24.3
60°-70°	4343.2	25.0
70°-80°	1925.3	11.1
80°-90°	264.2	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°	17384.5	100.0
0°-180°	17384.5	100.0

**Coefficient of Utilization**



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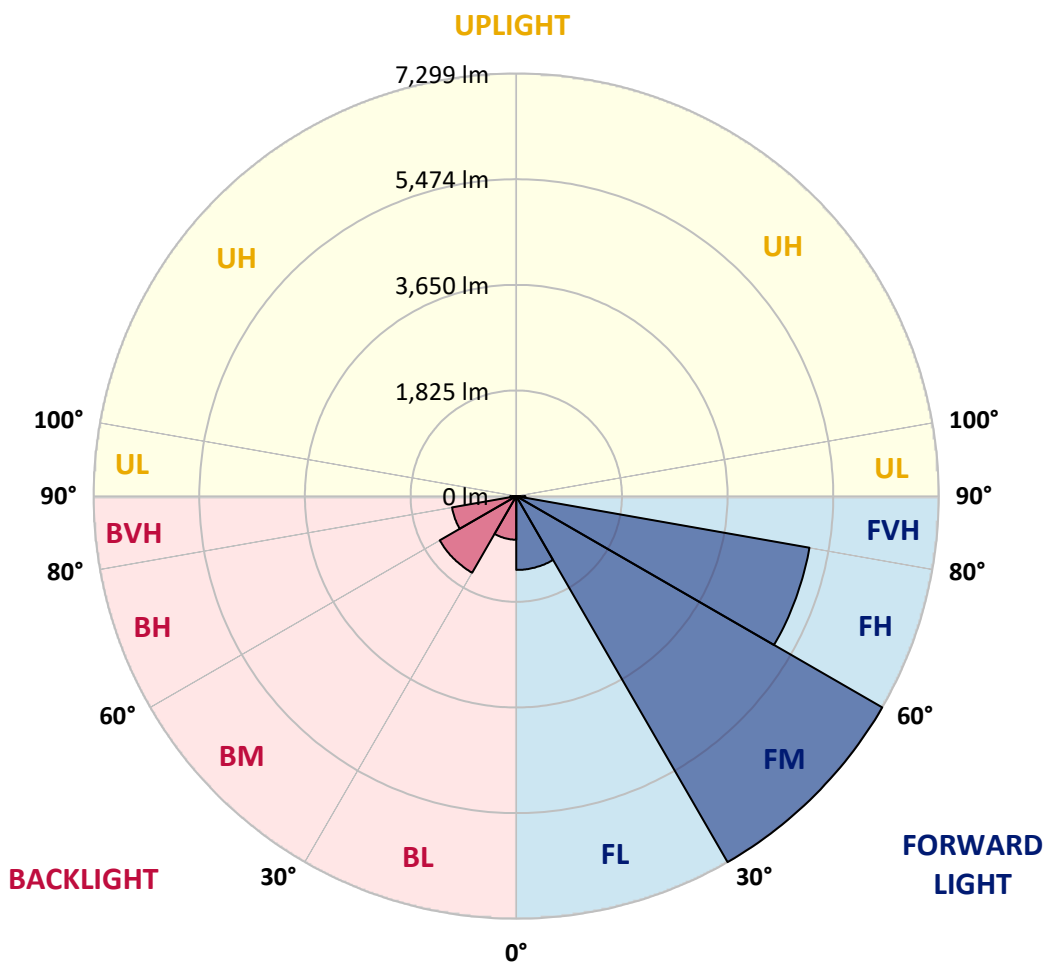
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1274.4	7.3			
FM (30°-60°)	7299.2	42.0			
FH (60°-80°)	5142.0	29.6			G3/7500
FVH (80°-90°)	158.4	0.9			G2/225
BL (0°-30°)	752.1	4.3	B2/1000		
BM (30°-60°)	1526.2	8.8	B2/2500		
BH (60°-80°)	1126.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	105.7	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°	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2
2.5°	2334.8	2336.7	2336.7	2329.0	2330.9	2336.7	2315.7	2269.8	2269.8	2262.1	2248.7
5°	2478.2	2468.6	2455.2	2457.2	2449.5	2449.5	2426.6	2382.6	2344.3	2329.0	2288.9
7.5°	2497.3	2506.9	2505.0	2527.9	2539.4	2539.4	2550.8	2514.5	2457.2	2420.8	2380.7
10°	2535.6	2510.7	2508.8	2562.3	2579.5	2619.7	2665.6	2646.5	2598.7	2547.0	2493.5
12.5°	2558.5	2573.8	2573.8	2600.6	2640.7	2700.0	2780.3	2816.6	2742.1	2688.5	2606.3
15°	2592.9	2571.9	2633.1	2656.0	2732.5	2774.6	2889.3	2983.0	2933.3	2868.3	2738.2
17.5°	2608.2	2594.8	2629.2	2671.3	2801.3	2864.4	3004.0	3134.1	3092.0	3049.9	2916.1
20°	2686.6	2684.7	2700.0	2734.4	2828.1	2952.4	3126.4	3306.2	3321.5	3245.0	3063.3
22.5°	2877.8	2853.0	2853.0	2839.6	2879.7	3007.9	3243.1	3491.6	3560.5	3470.6	3229.7
25°	3053.8	3088.2	3067.1	3005.9	2990.6	3057.6	3327.2	3688.6	3780.4	3696.2	3455.3
27.5°	3279.4	3290.9	3327.2	3245.0	3139.8	3160.8	3419.0	3799.5	3988.8	3876.0	3583.4
30°	3604.5	3583.4	3575.8	3484.0	3346.3	3317.6	3524.1	3962.0	4262.2	4103.5	3734.5
32.5°	3824.4	3876.0	3874.1	3747.9	3581.5	3518.4	3654.2	4115.0	4554.8	4407.6	4013.7
35°	4260.3	4313.9	4271.8	4086.3	3891.3	3765.1	3841.6	4313.9	4889.4	4774.7	4250.8
37.5°	4816.8	4943.0	4853.1	4510.8	4235.5	4097.8	4101.6	4530.0	5231.7	5138.0	4505.1
40°	5201.1	5371.3	5247.0	4925.8	4633.2	4503.2	4451.6	4786.2	5640.9	5541.5	4902.8
42.5°	5677.3	5818.8	5753.8	5436.3	5094.0	4983.1	4879.9	5214.5	6266.2	6220.3	5413.4
45°	6197.4	6264.3	6243.3	6042.5	5662.0	5623.7	5396.2	5778.6	7002.4	7021.5	6052.1
47.5°	6681.2	6717.5	6757.6	6612.3	6375.2	6407.7	5990.9	6382.9	7717.6	7843.8	6763.4
50°	6805.4	6929.7	7023.4	7121.0	7172.6	7392.5	6646.7	7124.8	8539.8	8784.6	7555.0
52.5°	6679.2	6669.7	6954.6	7260.5	7776.8	8237.7	7539.7	8046.5	9266.4	9750.2	8279.7
55°	6105.6	6086.5	6545.4	6950.8	7958.5	8708.1	8815.2	9274.1	10144.1	10773.2	9260.7
57.5°	5101.7	4983.1	5484.1	6149.6	7564.6	8759.7	10096.3	11096.4	11494.1	12211.2	10757.9
60°	3428.5	3378.8	3858.8	4652.3	6141.9	8027.3	10863.1	13377.6	13396.7	14203.7	13081.2
62.5°	2111.0	2120.6	2428.5	3023.2	4300.5	6363.7	10532.3	15199.9	15203.7	16012.6	14993.4
65°	1380.6	1386.3	1634.9	1963.8	2686.6	4315.8	8710.0	15343.3	16460.0	17211.5	15869.2
66°	1229.5	1231.4	1445.6	1713.3	2225.8	3531.8	7692.7	14970.5	16743.0	17370.2	15857.7
67.5°	1036.4	1061.3	1233.4	1439.9	1736.3	2537.5	6103.7	13892.0	16597.7	17148.4	15498.2
70°	810.8	824.1	959.9	1170.3	1302.2	1468.6	3627.4	11323.9	15192.3	16085.3	14190.3
72.5°	650.1	661.6	764.9	950.4	1057.4	967.6	1975.3	8216.6	12000.8	12953.1	11161.4
75°	548.8	550.7	600.4	747.7	870.0	726.6	1051.7	5273.8	7700.3	8144.0	6838.0
77.5°	443.6	451.3	485.7	569.8	699.9	571.7	627.2	2954.3	3866.4	3898.9	3160.8
80°	361.4	365.2	386.3	414.9	533.5	422.6	424.5	1441.8	1657.9	1619.6	1285.0
82.5°	284.9	288.7	313.6	307.9	392.0	302.1	263.9	694.1	763.0	747.7	590.9
85°	160.6	160.6	246.7	246.7	248.6	191.2	160.6	327.0	403.5	376.7	277.3
87.5°	51.6	53.5	74.6	78.4	124.3	86.0	78.4	122.4	191.2	168.3	99.4
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°	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2
2.5°	2241.1	2210.5	2197.1	2153.1	2141.6	2113.0	2099.6	2082.4	2076.6	2051.8	2074.7
5°	2258.3	2248.7	2195.2	2139.7	2097.7	2078.5	2049.9	2011.6	2007.8	1973.4	1969.5
7.5°	2330.9	2298.4	2204.7	2145.5	2061.3	2013.5	1950.4	1931.3	1906.4	1895.0	1919.8
10°	2443.8	2361.5	2222.0	2072.8	1969.5	1912.2	1866.3	1852.9	1854.8	1847.2	1835.7
12.5°	2524.1	2445.7	2193.3	2011.6	1877.8	1822.3	1818.5	1831.9	1852.9	1843.3	1856.7
15°	2638.8	2491.6	2172.2	1910.3	1803.2	1787.9	1786.0	1826.1	1824.2	1824.2	1822.3
17.5°	2745.9	2537.5	2095.7	1822.3	1724.8	1736.3	1749.6	1747.7	1766.9	1774.5	1787.9
20°	2881.7	2591.0	1988.7	1734.3	1665.5	1661.7	1659.8	1661.7	1680.8	1692.3	1682.7
22.5°	3000.2	2602.5	1898.8	1650.2	1594.8	1579.5	1554.6	1579.5	1569.9	1573.7	1585.2
25°	3103.5	2604.4	1770.7	1587.1	1524.0	1489.6	1470.5	1468.6	1451.3	1449.4	1449.4
27.5°	3189.5	2539.4	1657.9	1499.1	1439.9	1407.4	1405.5	1384.4	1340.4	1311.8	1315.6
30°	3256.4	2489.7	1579.5	1422.7	1365.3	1359.6	1342.4	1294.5	1237.2	1200.8	1200.8
32.5°	3375.0	2390.2	1472.4	1344.3	1315.6	1307.9	1267.8	1225.7	1172.2	1137.7	1132.0
35°	3463.0	2298.4	1401.6	1277.3	1264.0	1248.7	1214.2	1168.3	1153.0	1145.4	1151.1
37.5°	3562.4	2195.2	1315.6	1220.0	1233.4	1204.7	1164.5	1143.5	1197.0	1183.6	1189.4
40°	3721.1	2122.5	1231.4	1185.6	1198.9	1166.4	1114.8	1107.2	1174.1	1126.3	1114.8
42.5°	4011.8	2120.6	1179.8	1133.9	1143.5	1118.6	1072.7	1068.9	1095.7	1038.3	1021.1
45°	4373.2	2187.5	1141.6	1095.7	1088.0	1084.2	1068.9	1051.7	1028.8	954.2	935.1
47.5°	4805.3	2296.5	1133.9	1038.3	1047.9	1080.4	1061.3	1017.3	958.0	910.2	900.6
50°	5329.2	2522.2	1114.8	996.2	1013.5	1065.1	1049.8	988.6	935.1	904.5	898.7
52.5°	5908.6	2807.1	1089.9	931.2	969.5	1051.7	1059.3	1002.0	923.6	896.8	893.0
55°	6591.3	3227.8	1061.3	860.5	917.8	1038.3	1059.3	963.7	908.3	908.3	904.5
57.5°	7939.4	3985.0	1002.0	795.5	872.0	1013.5	1028.8	965.7	910.2	910.2	902.5
60°	9916.6	5166.7	889.2	745.8	828.0	979.0	1005.8	937.0	889.2	900.6	898.7
62.5°	11463.5	5526.2	793.6	697.9	784.0	915.9	975.2	906.4	864.3	906.4	910.2
65°	11794.3	5162.9	696.0	646.3	722.8	854.7	931.2	862.4	828.0	910.2	914.0
66°	11675.8	4879.9	661.6	631.0	696.0	824.1	904.5	847.1	808.9	906.4	908.3
67.5°	11148.0	4455.4	623.4	598.5	659.7	780.2	873.9	826.1	778.3	894.9	877.7
70°	10000.7	3778.5	558.4	541.1	608.1	707.5	803.1	772.5	730.5	824.1	793.6
72.5°	7702.3	3019.3	489.5	491.4	548.8	632.9	732.4	711.3	675.0	722.8	703.7
75°	4690.6	1929.4	426.4	430.2	478.0	562.2	665.4	650.1	606.2	632.9	623.4
77.5°	2078.5	956.1	359.5	367.1	405.4	495.3	579.4	554.5	508.6	514.4	510.6
80°	806.9	453.2	292.6	302.1	327.0	395.8	480.0	457.0	416.9	409.2	405.4
82.5°	388.2	252.4	225.6	229.5	239.0	315.5	413.0	384.3	330.8	296.4	296.4
85°	195.0	156.8	158.7	145.3	158.7	214.2	279.2	233.3	193.1	172.1	175.9
87.5°	78.4	78.4	78.4	66.9	70.8	101.3	130.0	88.0	80.3	47.8	47.8
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)