

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: P477040

Luminaire Tested: **IFLD-S-SA6A-750-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477040  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-750-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

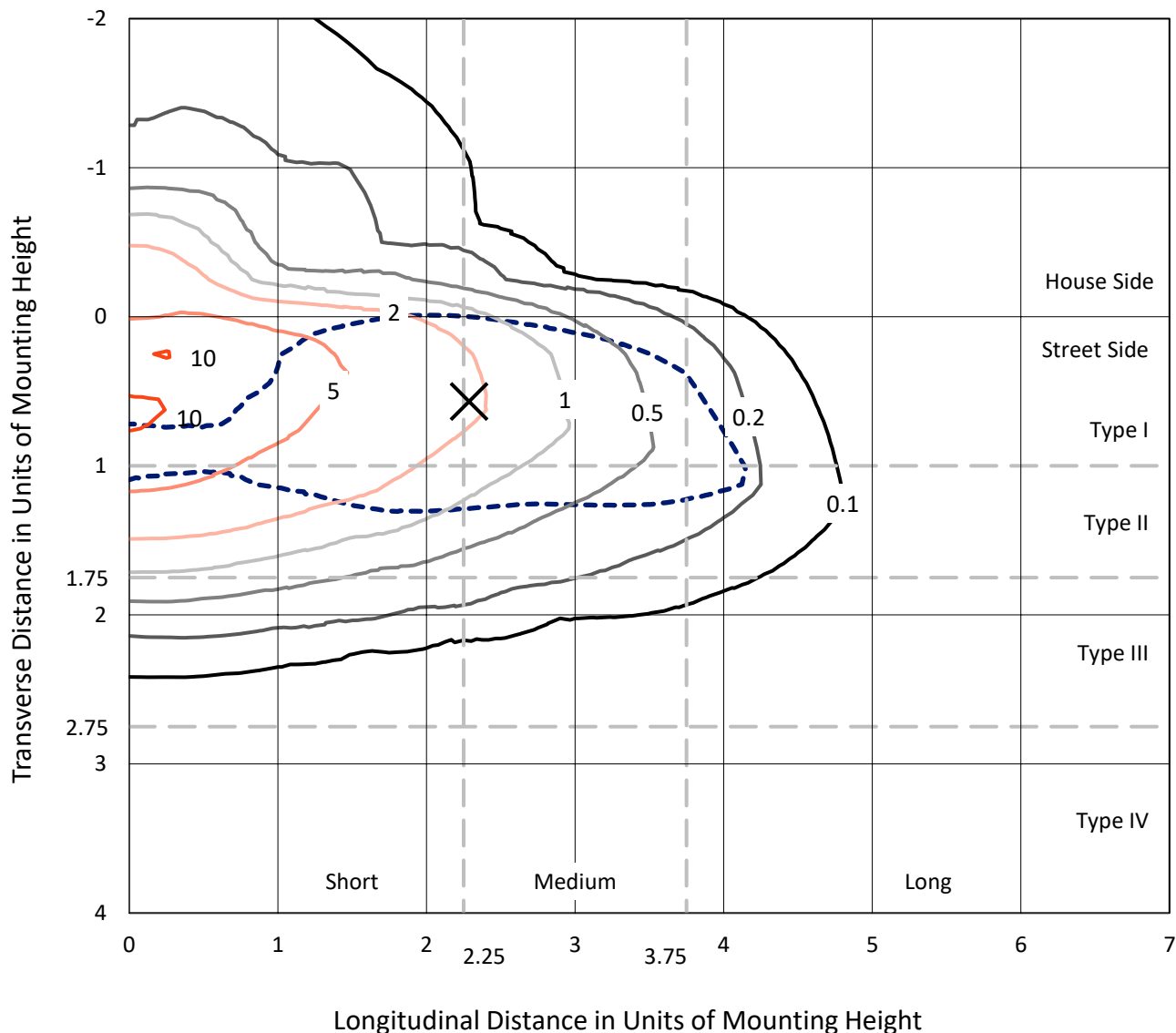
Lumens per Lamp: N/A  
Luminaire Lumens: 27763.2 lumens  
Efficiency: N/A  
Efficacy: 146.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 189.6  
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

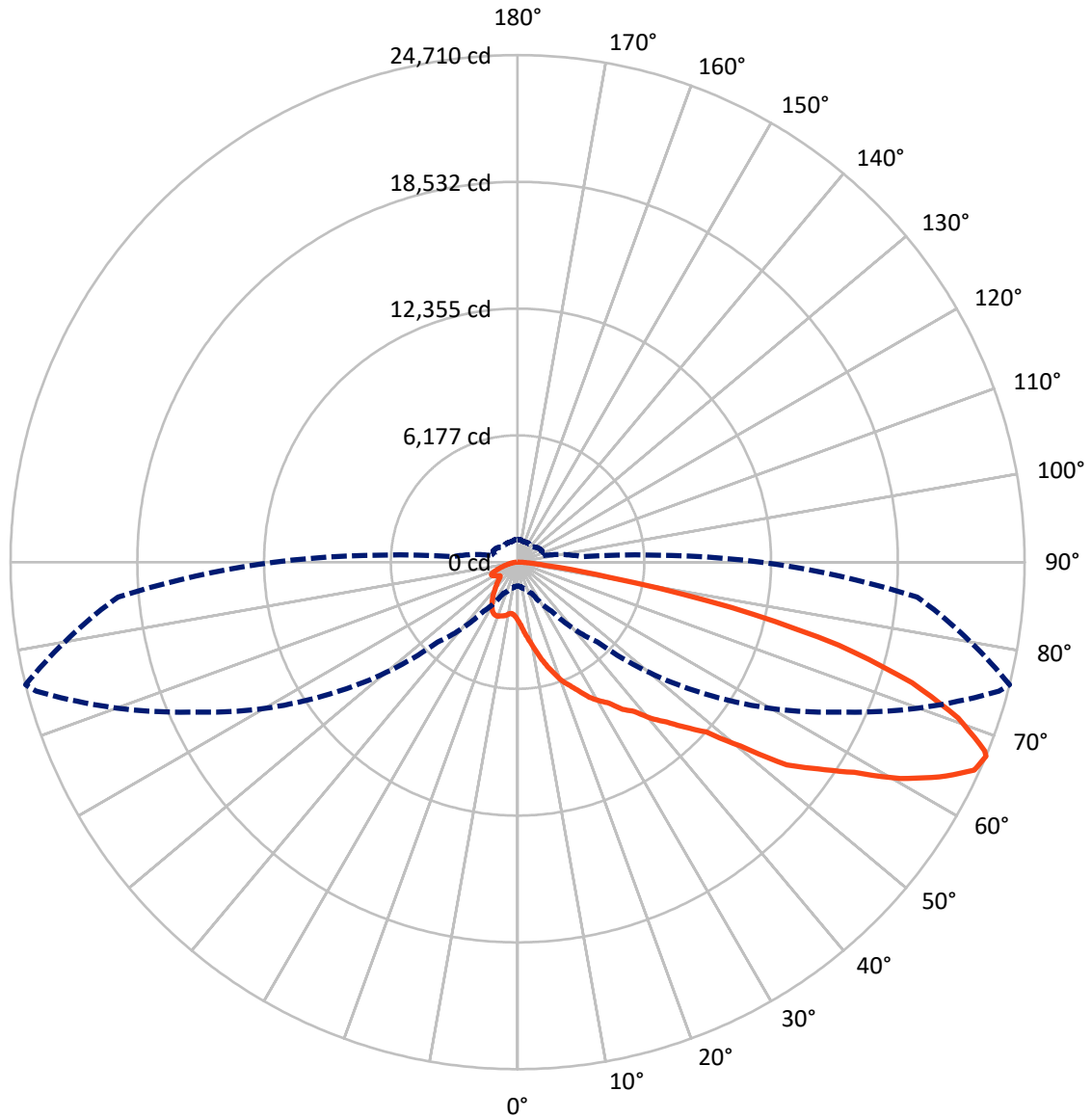
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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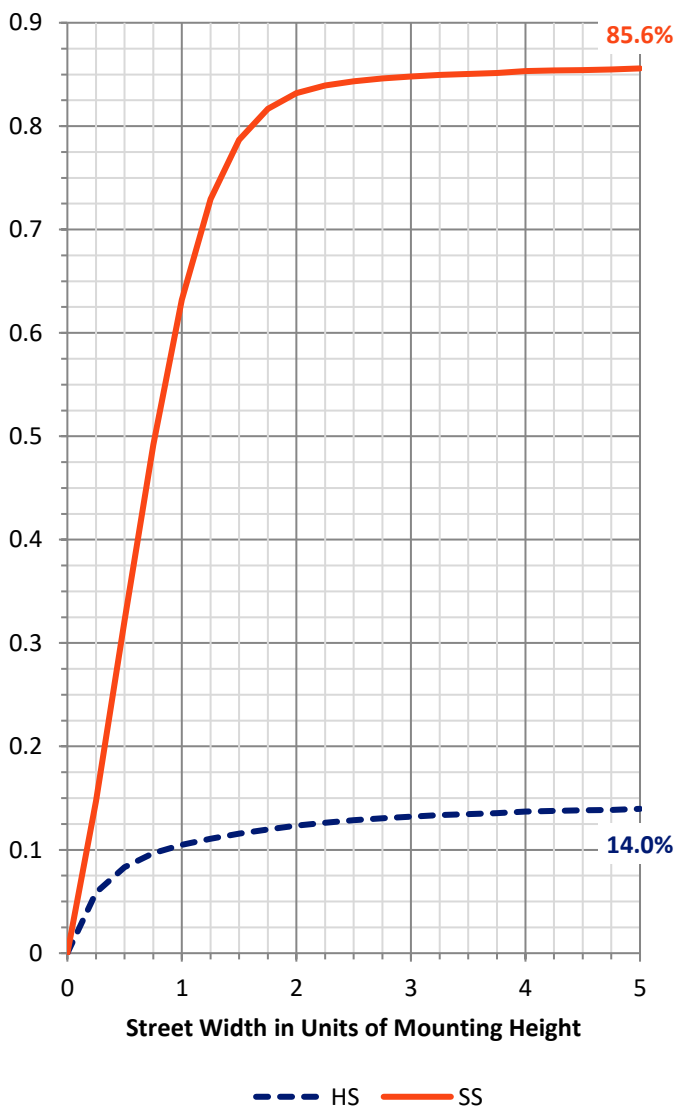
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3949.7	0.0	3949.7
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	23813.5	0.0	23813.5
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	27763.2	0.0	27763.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.1	1.2
10°-20°	1234.3	4.4
20°-30°	2294.8	8.3
30°-40°	3637.7	13.1
40°-50°	5031.3	18.1
50°-60°	6188.8	22.3
60°-70°	5759.0	20.7
70°-80°	2889.8	10.4
80°-90°	398.5	1.4
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°	27763.2	100.0
0°-180°	27763.2	100.0

**Coefficient of Utilization**



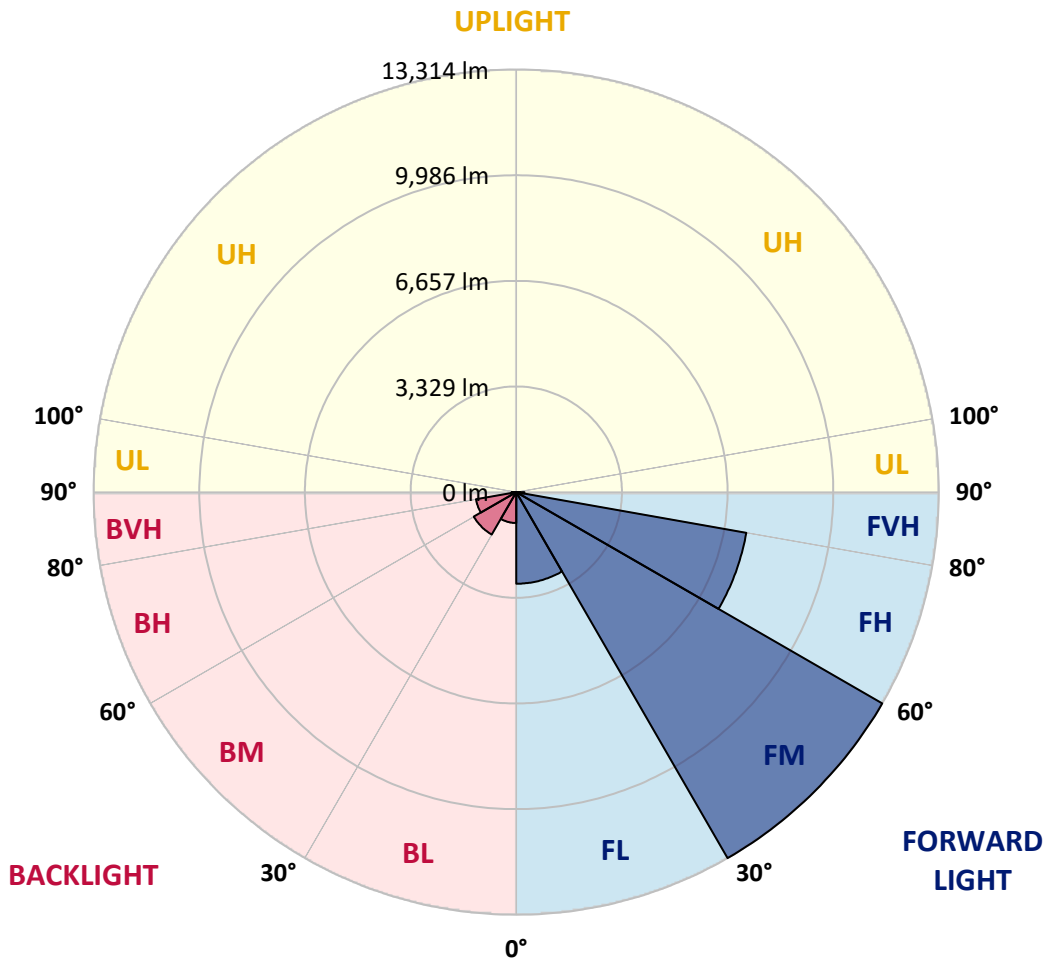
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2885.5	10.4			
FM (30°-60°)	13314.3	48.0			
FH (60°-80°)	7359.8	26.5			G3/7500
FVH (80°-90°)	253.9	0.9			G3/500
BL (0°-30°)	972.6	3.5	B2/1000		
BM (30°-60°)	1543.4	5.6	B2/2500		
BH (60°-80°)	1289.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	144.6	0.5			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1
2.5°	3942.2	3894.7	3847.2	3746.0	3711.2	3616.3	3442.3	3249.3	3091.1	3068.9	2958.2
5°	4891.3	4821.7	4805.9	4748.9	4568.6	4385.1	4100.3	3790.3	3404.3	3432.8	3053.1
7.5°	5603.2	5562.0	5476.6	5422.8	5315.3	5071.6	4777.4	4366.1	3875.7	3780.8	3265.1
10°	6141.0	6084.1	6080.9	6033.5	5976.5	5726.6	5501.9	4948.3	4318.7	4188.9	3524.5
12.5°	6413.1	6403.6	6571.3	6571.3	6549.2	6444.8	6058.8	5552.6	4739.4	4695.2	3825.1
15°	6707.4	6628.3	6773.8	6884.5	6941.5	6995.3	6675.7	6141.0	5277.3	5191.9	4147.8
17.5°	6707.4	6701.0	6846.6	7030.1	7327.5	7397.1	7223.1	6682.0	5723.4	5660.1	4502.2
20°	6593.5	6685.2	6786.5	7033.2	7355.9	7637.5	7688.2	7235.7	6217.0	6166.3	4904.0
22.5°	7125.0	7036.4	7140.8	7235.7	7485.7	7912.8	8052.0	7723.0	6735.8	6542.8	5267.8
25°	8017.2	7957.1	7881.1	7741.9	7846.3	8033.0	8245.0	8083.6	7178.8	6963.6	5619.0
27.5°	8887.3	8890.4	8725.9	8422.2	8197.5	8235.5	8485.4	8400.0	7552.1	7457.2	5859.4
30°	10124.3	10048.4	9864.9	9453.6	9013.8	8653.1	8612.0	8694.3	8026.7	7843.2	6204.3
32.5°	11051.3	11067.1	10807.7	10216.1	9614.9	9320.7	8960.0	8994.8	8327.3	8191.2	6479.6
35°	11801.2	11782.2	11598.7	11108.3	10396.4	10042.1	9554.8	9355.5	9026.5	8811.3	6900.4
37.5°	12611.1	12456.1	12158.7	11605.0	11149.4	10659.0	10184.4	9735.2	9491.5	9232.1	7261.0
40°	12937.0	12937.0	12538.3	12285.2	11744.2	11374.0	11067.1	10235.1	10057.9	10007.3	7723.0
42.5°	12706.0	12848.4	12683.9	12396.0	12174.5	11706.2	11624.0	10753.9	10757.1	10655.8	8276.6
45°	12683.9	12487.7	12351.7	12424.4	12320.0	12294.7	12503.5	11472.1	11491.1	11478.4	9020.1
47.5°	12047.9	11959.3	12161.8	12282.1	12367.5	12759.8	13360.9	12329.5	12465.6	12370.6	9877.5
50°	11415.2	11399.3	11525.9	11962.5	12332.7	12978.1	14177.2	13652.0	14098.1	14091.8	11431.0
52.5°	9681.4	9849.1	10345.8	11269.6	12184.0	13275.5	14794.2	15341.5	16192.6	16423.5	12718.7
55°	8023.5	7934.9	8668.9	10010.4	11535.4	13392.6	15483.9	16357.1	17610.0	17777.7	14041.2
57.5°	6242.3	6406.8	6985.8	8273.5	10193.9	12813.6	15990.1	17360.0	19210.9	19340.6	15575.6
60°	4657.2	4679.3	5315.3	6353.0	8409.5	11506.9	16154.6	18388.3	21045.9	21416.1	17182.9
62.5°	2929.7	3062.6	3546.7	4568.6	6330.9	9678.2	15417.4	19011.6	22969.5	23067.6	18802.8
65°	1578.8	1664.2	2028.0	2670.3	4423.1	7321.1	13462.2	18638.2	23874.4	24456.6	19524.1
67°	1167.5	1183.3	1351.0	1705.3	2958.2	5511.4	11225.3	17287.3	24285.7	24709.7	19552.6
67.5°	1094.7	1116.8	1249.7	1531.3	2622.8	5074.8	10640.0	16806.4	24102.2	24557.8	19331.1
70°	936.5	942.8	974.5	1053.6	1471.2	3053.1	7245.2	13772.2	22339.9	22776.5	17777.7
72.5°	832.1	838.4	851.1	866.9	996.6	1765.4	4407.2	10598.9	19416.5	20112.6	15338.3
75°	730.8	753.0	759.3	746.7	847.9	1148.5	2344.4	7789.4	15838.2	16176.8	11927.7
77.5°	620.1	629.6	642.3	654.9	756.2	857.4	1126.3	5258.3	10871.0	10665.3	6451.1
80°	522.0	525.2	534.7	544.2	654.9	654.9	639.1	2841.1	4748.9	4540.1	2179.9
82.5°	373.3	395.5	417.6	442.9	544.2	439.8	417.6	1265.5	1502.8	1430.1	737.2
85°	145.5	177.2	275.3	303.7	344.9	237.3	278.4	547.3	626.4	620.1	275.3
87.5°	25.3	28.5	75.9	117.1	126.6	82.3	132.9	196.2	234.1	253.1	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°	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1
2.5°	2866.4	2768.4	2651.3	2534.2	2458.3	2338.1	2328.6	2255.8	2246.3	2221.0	2233.7
5°	2888.6	2771.5	2534.2	2347.6	2262.2	2192.5	2208.4	2176.7	2167.2	2151.4	2126.1
7.5°	3062.6	2831.6	2477.3	2315.9	2252.7	2221.0	2221.0	2183.1	2154.6	2173.6	2192.5
10°	3176.5	2860.1	2521.6	2360.2	2309.6	2240.0	2265.3	2217.9	2233.7	2195.7	2195.7
12.5°	3360.0	3021.5	2613.3	2426.7	2344.4	2281.1	2306.4	2252.7	2240.0	2243.2	2233.7
15°	3606.8	3129.0	2654.5	2464.6	2407.7	2328.6	2309.6	2262.2	2214.7	2198.9	2217.9
17.5°	3837.7	3261.9	2682.9	2486.8	2395.0	2306.4	2284.3	2224.2	2208.4	2160.9	2122.9
20°	4113.0	3420.1	2720.9	2505.8	2347.6	2259.0	2202.0	2141.9	2088.1	2059.7	2072.3
22.5°	4296.5	3502.4	2739.9	2467.8	2278.0	2195.7	2075.5	2034.4	1958.4	1926.8	1901.5
25°	4597.1	3603.6	2692.4	2363.4	2154.6	2021.7	1914.1	1857.2	1803.4	1762.3	1749.6
27.5°	4673.0	3679.6	2581.7	2186.2	1958.4	1819.2	1727.5	1657.9	1623.1	1559.8	1547.1
30°	4894.5	3603.6	2417.2	1971.1	1771.8	1629.4	1537.6	1487.0	1404.7	1388.9	1354.1
32.5°	5036.8	3625.8	2208.4	1762.3	1556.6	1430.1	1369.9	1319.3	1297.2	1221.2	1202.3
35°	5274.1	3549.8	1996.4	1569.3	1379.4	1281.4	1230.7	1214.9	1142.1	1107.3	1075.7
37.5°	5426.0	3505.5	1784.4	1351.0	1186.4	1145.3	1161.1	1094.7	1006.1	939.7	917.5
40°	5691.8	3489.7	1544.0	1170.6	1053.6	1044.1	1094.7	968.1	806.8	749.8	718.2
42.5°	6074.6	3382.2	1357.3	1009.3	949.2	990.3	999.8	806.8	715.0	667.6	645.4
45°	6441.6	3404.3	1173.8	835.3	825.8	885.9	863.7	683.4	629.6	594.8	613.8
47.5°	7147.1	3515.0	993.4	696.0	743.5	800.5	670.7	610.6	560.0	534.7	537.9
50°	8238.7	3622.6	835.3	635.9	702.4	724.5	575.8	553.7	550.5	499.9	496.7
52.5°	8893.6	3581.5	806.8	711.9	753.0	724.5	626.4	610.6	585.3	563.2	537.9
55°	9934.5	3701.7	866.9	832.1	854.2	696.0	702.4	696.0	677.1	620.1	635.9
57.5°	10763.4	3780.8	946.0	930.2	917.5	724.5	734.0	737.2	724.5	699.2	721.4
60°	11902.4	3939.0	1028.3	1031.4	1034.6	787.8	803.6	822.6	819.4	809.9	816.3
62.5°	12601.6	3866.2	1120.0	1170.6	1154.8	917.5	914.4	927.0	927.0	942.8	952.3
65°	12497.2	3597.3	1167.5	1294.0	1211.8	1012.4	1012.4	1018.8	1021.9	1053.6	1056.7
67°	11870.8	3116.4	1142.1	1313.0	1211.8	1050.4	1050.4	1056.7	1034.6	1116.8	1091.5
67.5°	11579.7	2974.0	1120.0	1297.2	1202.3	1047.2	1047.2	1050.4	1031.4	1110.5	1085.2
70°	10070.5	2208.4	965.0	1148.5	1113.7	1018.8	1018.8	999.8	984.0	1088.4	1066.2
72.5°	8596.2	1604.1	775.1	977.6	1006.1	980.8	987.1	939.7	895.4	968.1	949.2
75°	6584.0	1180.1	604.3	753.0	851.1	917.5	958.6	838.4	781.5	800.5	765.7
77.5°	3673.2	768.8	477.7	556.8	648.6	854.2	920.7	756.2	639.1	617.0	617.0
80°	1246.6	449.3	351.2	414.5	446.1	756.2	860.6	613.8	503.1	480.9	465.1
82.5°	471.4	275.3	240.5	284.7	284.7	598.0	702.4	471.4	379.7	490.4	499.9
85°	215.1	164.5	158.2	164.5	164.5	367.0	496.7	306.9	341.7	294.2	259.4
87.5°	85.4	79.1	72.8	69.6	56.9	63.3	170.8	82.3	155.0	41.1	38.0
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)