

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: P481823

Luminaire Tested: **IFLD-S-SA3B-830-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481823  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-830-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

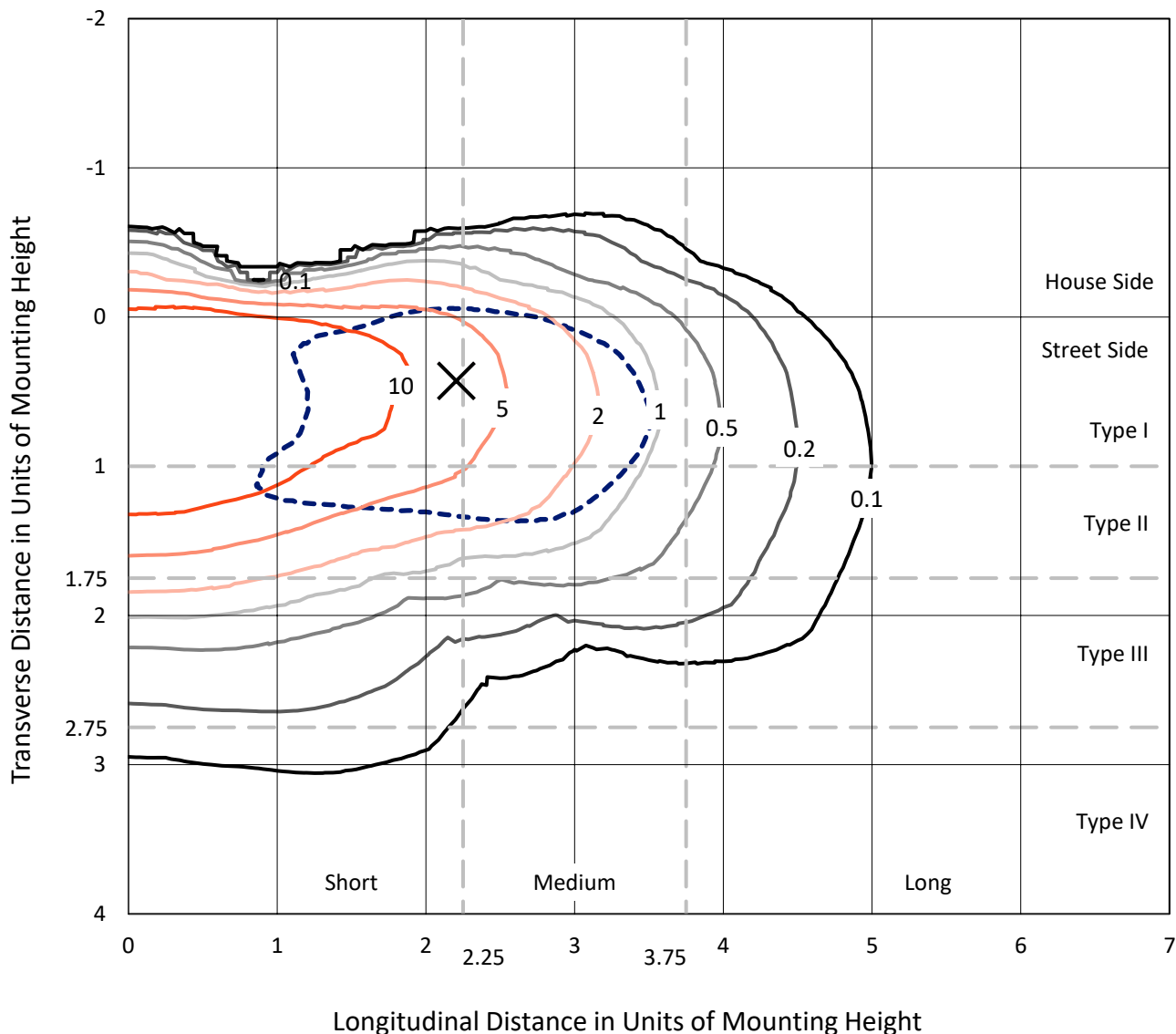
Lumens per Lamp: N/A  
Luminaire Lumens: 9736.8 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

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

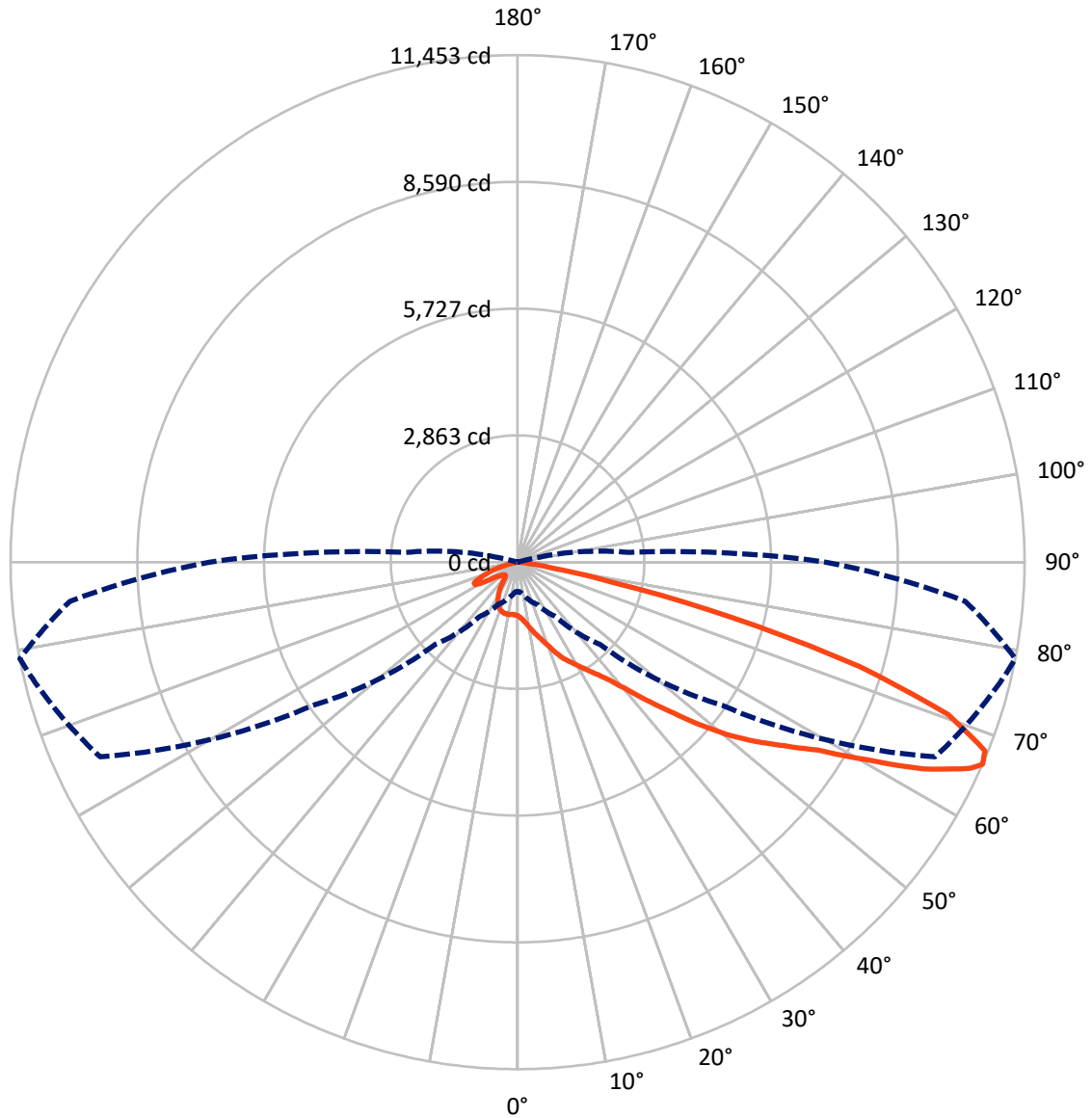
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.2 fc  
 Type II - Short - N/A

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CATALOG NUMBER: IFLD-S-SA3B-830-U-T2-HSS

### Luminous Intensity Polar Plot



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

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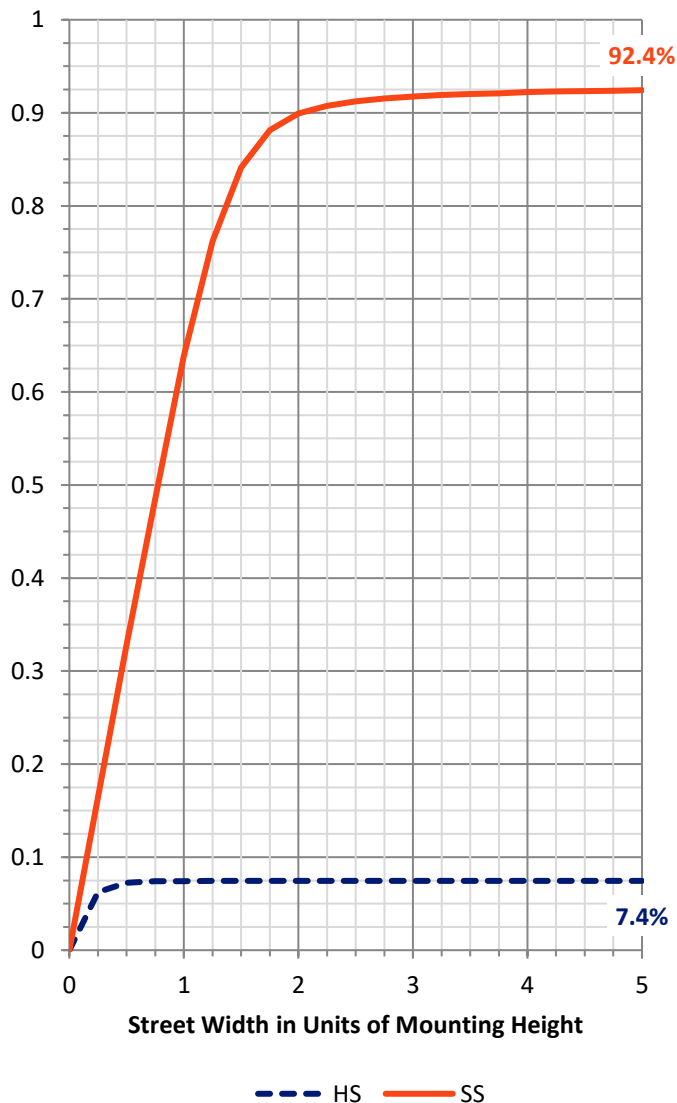
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	731.1	0.0	731.1
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	9005.7	0.0	9005.7
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	9736.8	0.0	9736.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.6	1.2
10°-20°	315.3	3.2
20°-30°	523.8	5.4
30°-40°	899.7	9.2
40°-50°	1629.8	16.7
50°-60°	2576.3	26.5
60°-70°	2621.6	26.9
70°-80°	999.7	10.3
80°-90°	56.0	0.6
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°	9736.8	100.0
0°-180°	9736.8	100.0

**Coefficient of Utilization**

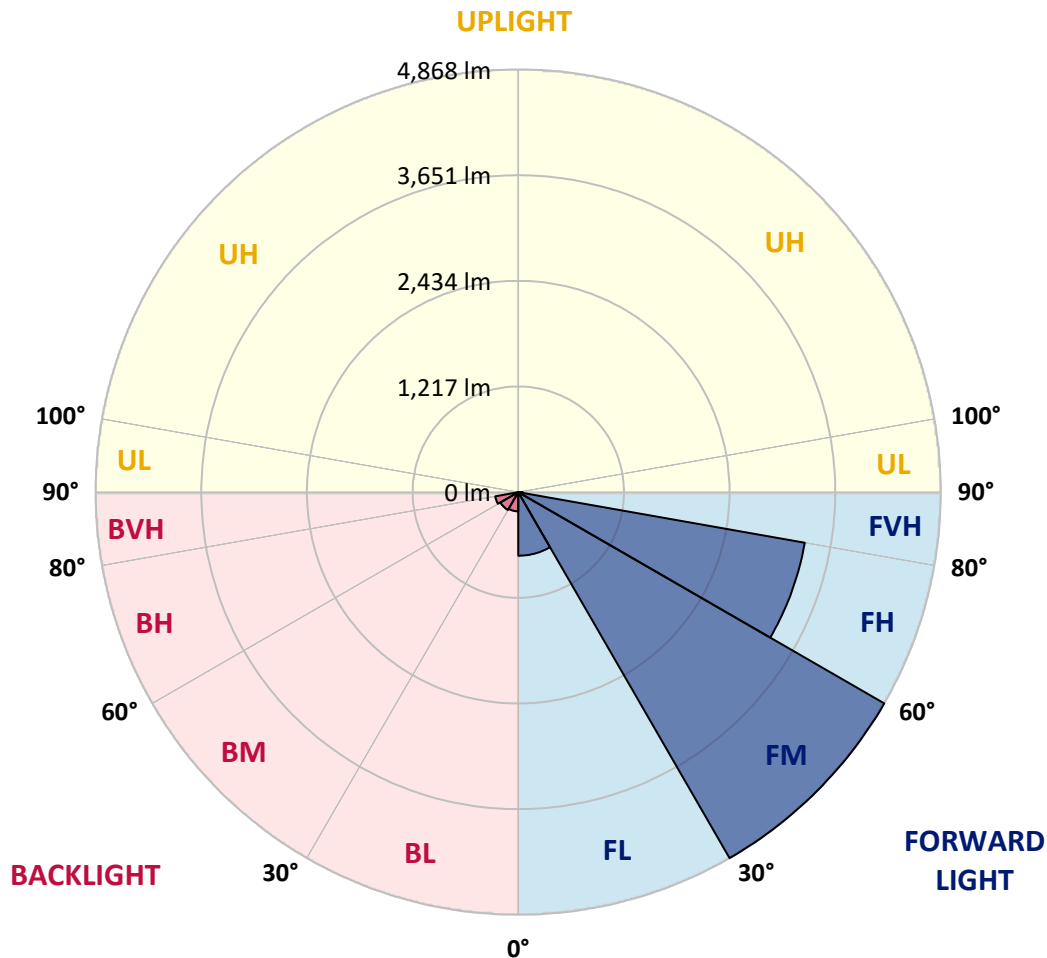


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	732.5	7.5			
FM (30°-60°)	4868.2	50.0			
FH (60°-80°)	3351.8	34.4			G2/5000
FVH (80°-90°)	53.2	0.5			G1/100
BL (0°-30°)	221.1	2.3	B1/500		
BM (30°-60°)	237.6	2.4	B1/1000		
BH (60°-80°)	269.5	2.8	B1/500		G1/500
BVH (80°-90°)	2.9	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4
2.5°	1372.0	1370.5	1364.5	1354.0	1340.5	1336.0	1316.5	1289.4	1274.4	1257.9	1250.4
5°	1466.6	1459.1	1477.1	1469.6	1472.6	1436.5	1412.5	1393.0	1336.0	1313.5	1277.4
7.5°	1487.6	1495.1	1493.6	1505.6	1517.6	1531.1	1514.6	1486.1	1429.0	1396.0	1357.0
10°	1487.6	1484.6	1496.6	1513.1	1547.6	1577.6	1622.7	1585.2	1541.6	1502.6	1432.0
12.5°	1460.6	1456.1	1468.1	1502.6	1564.1	1625.7	1675.2	1711.2	1649.7	1618.2	1526.6
15°	1378.0	1373.5	1423.0	1484.6	1565.6	1666.2	1769.8	1828.3	1786.3	1736.8	1634.7
17.5°	1275.9	1281.9	1334.5	1436.5	1565.6	1685.7	1817.8	1945.4	1939.4	1876.4	1769.8
20°	1241.4	1245.9	1298.4	1372.0	1519.1	1699.2	1892.9	2073.0	2109.0	2034.0	1894.4
22.5°	1307.5	1302.9	1307.5	1352.5	1487.6	1687.2	1942.4	2218.6	2283.2	2224.6	2058.0
25°	1532.6	1529.6	1492.1	1423.0	1469.6	1660.2	1967.9	2314.7	2463.3	2409.3	2190.1
27.5°	1862.9	1850.8	1792.3	1648.2	1553.6	1676.7	2010.0	2407.8	2620.9	2559.4	2308.7
30°	2217.1	2188.6	2112.0	1931.9	1771.3	1738.3	2034.0	2476.8	2796.5	2718.5	2412.3
32.5°	2461.8	2499.3	2475.3	2292.2	2046.0	1880.9	2073.0	2563.9	2958.7	2907.6	2589.4
35°	2840.1	2883.6	2783.0	2620.9	2373.2	2107.5	2155.6	2634.4	3207.8	3122.3	2754.5
37.5°	3317.4	3350.4	3278.4	2970.7	2709.5	2386.7	2325.2	2781.5	3422.5	3382.0	2966.2
40°	3557.6	3716.7	3614.6	3336.9	3056.2	2777.0	2605.9	2954.1	3796.3	3763.2	3258.9
42.5°	3889.3	3968.9	3916.3	3710.7	3418.0	3194.3	2952.6	3290.4	4249.6	4249.6	3655.2
45°	4240.6	4243.6	4240.6	4072.5	3812.8	3697.2	3421.0	3712.2	4737.4	4791.5	4129.5
47.5°	4528.8	4618.9	4611.4	4510.8	4309.6	4266.1	3889.3	4192.5	5349.9	5444.5	4591.8
50°	4677.4	4778.0	4808.0	4860.5	4851.5	4943.1	4401.2	4749.5	5878.3	6110.9	5186.3
52.5°	4636.9	4644.4	4829.0	5036.2	5366.4	5623.1	5018.1	5381.4	6496.7	6726.4	5645.6
55°	4305.1	4276.6	4656.4	4893.6	5576.6	6038.9	5872.3	6169.5	6978.6	7328.3	6120.0
57.5°	3577.1	3584.6	3935.9	4417.7	5420.4	6204.0	6784.9	7199.2	7654.1	8006.8	6786.4
60°	2469.3	2460.3	2853.6	3410.5	4503.3	5896.3	7310.3	8533.7	8557.7	9057.6	7982.8
62.5°	1388.5	1391.5	1690.2	2166.1	3150.8	4818.5	7284.8	9950.7	9848.7	10287.0	9342.8
65°	786.6	806.1	1011.7	1283.4	1886.9	3234.9	6265.6	10515.1	10843.9	11234.2	10168.4
66°	665.0	678.5	854.1	1059.8	1505.6	2623.9	5639.6	10405.6	11156.1	11453.3	10151.9
67.5°	514.9	532.9	680.0	840.6	1104.8	1816.3	4539.3	9860.7	11213.2	11387.3	9865.2
70°	352.8	364.8	477.3	638.0	755.0	929.2	2714.0	8152.4	10174.4	10321.5	8574.2
72.5°	247.7	253.7	334.7	483.4	580.9	531.4	1346.5	5800.2	7786.2	8072.9	6669.4
75°	178.6	184.6	229.7	346.8	453.3	348.3	616.9	3704.7	4775.0	5000.1	4016.9
77.5°	129.1	136.6	156.1	223.7	328.7	244.7	303.2	1934.9	2251.6	2212.6	1727.8
80°	78.1	85.6	115.6	144.1	240.2	172.6	166.6	807.6	798.6	758.1	543.4
82.5°	36.0	42.0	61.5	97.6	168.1	120.1	79.6	288.2	252.2	231.2	153.1
85°	10.5	13.5	36.0	73.6	85.6	58.5	48.0	99.1	103.6	88.6	51.0
87.5°	0.0	1.5	16.5	18.0	25.5	19.5	18.0	25.5	48.0	39.0	16.5
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°	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4	1211.4
2.5°	1223.4	1212.9	1187.4	1148.3	1113.8	1095.8	1070.3	1047.8	1035.8	1034.3	1032.8
5°	1253.4	1224.9	1163.3	1092.8	1040.3	983.2	944.2	915.7	888.6	863.1	878.1
7.5°	1293.9	1248.9	1148.3	1056.8	942.7	869.1	800.1	759.6	735.5	713.0	710.0
10°	1357.0	1299.9	1137.8	972.7	842.1	734.0	663.5	604.9	571.9	532.9	547.9
12.5°	1442.5	1340.5	1098.8	896.2	728.0	613.9	513.4	418.8	366.3	325.7	327.2
15°	1528.1	1394.5	1062.8	803.1	624.5	474.3	327.2	262.7	247.7	238.7	241.7
17.5°	1612.2	1438.0	1007.2	708.5	505.9	301.7	238.7	225.2	217.7	208.7	208.7
20°	1714.2	1466.6	938.2	621.5	348.3	223.7	204.1	195.1	183.1	171.1	172.6
22.5°	1813.3	1490.6	858.6	510.4	234.2	193.6	171.1	159.1	148.6	136.6	136.6
25°	1912.4	1498.1	755.0	366.3	189.1	154.6	133.6	117.1	106.6	96.1	97.6
27.5°	1979.9	1451.6	657.5	234.2	151.6	117.1	93.1	79.6	70.6	60.0	60.0
30°	2019.0	1366.0	552.4	165.1	114.1	79.6	55.5	42.0	33.0	25.5	24.0
32.5°	2058.0	1296.9	433.8	126.1	75.1	42.0	21.0	7.5	0.0	0.0	0.0
35°	2136.1	1218.9	291.2	70.6	25.5	1.5	0.0	0.0	0.0	0.0	0.0
37.5°	2185.6	1110.8	133.6	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2310.2	1056.8	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2512.8	1019.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2735.0	1004.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3030.7	1044.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3342.9	1154.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3685.2	1257.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3983.9	1382.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4533.3	1676.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5519.5	2254.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6630.3	2684.0	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7037.1	2673.4	28.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	6965.1	2526.3	28.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6591.3	2244.1	25.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5660.6	1853.8	25.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4315.6	1444.1	24.0	6.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	2604.4	768.6	19.5	7.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1037.3	270.2	15.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	280.7	81.1	9.0	6.0	4.5	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	73.6	30.0	7.5	6.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0
85°	28.5	12.0	6.0	4.5	4.5	3.0	1.5	0.0	0.0	0.0	0.0
87.5°	9.0	4.5	4.5	3.0	3.0	1.5	1.5	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)