

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: P476438

Luminaire Tested: **IFLD-S-SA2D-722-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476438  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-722-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

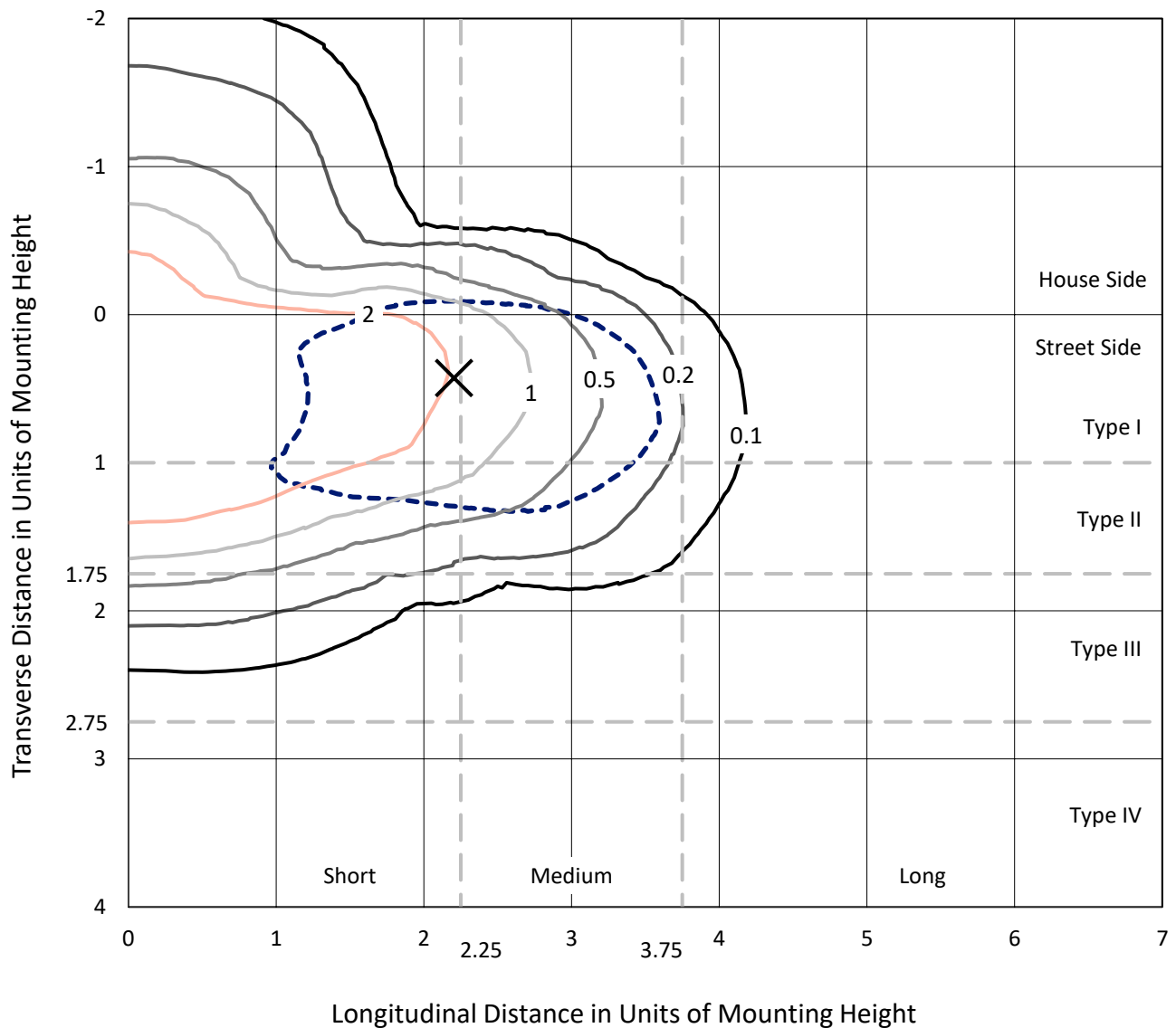
Lumens per Lamp: N/A  
Luminaire Lumens: 11506.2 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 123.9  
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

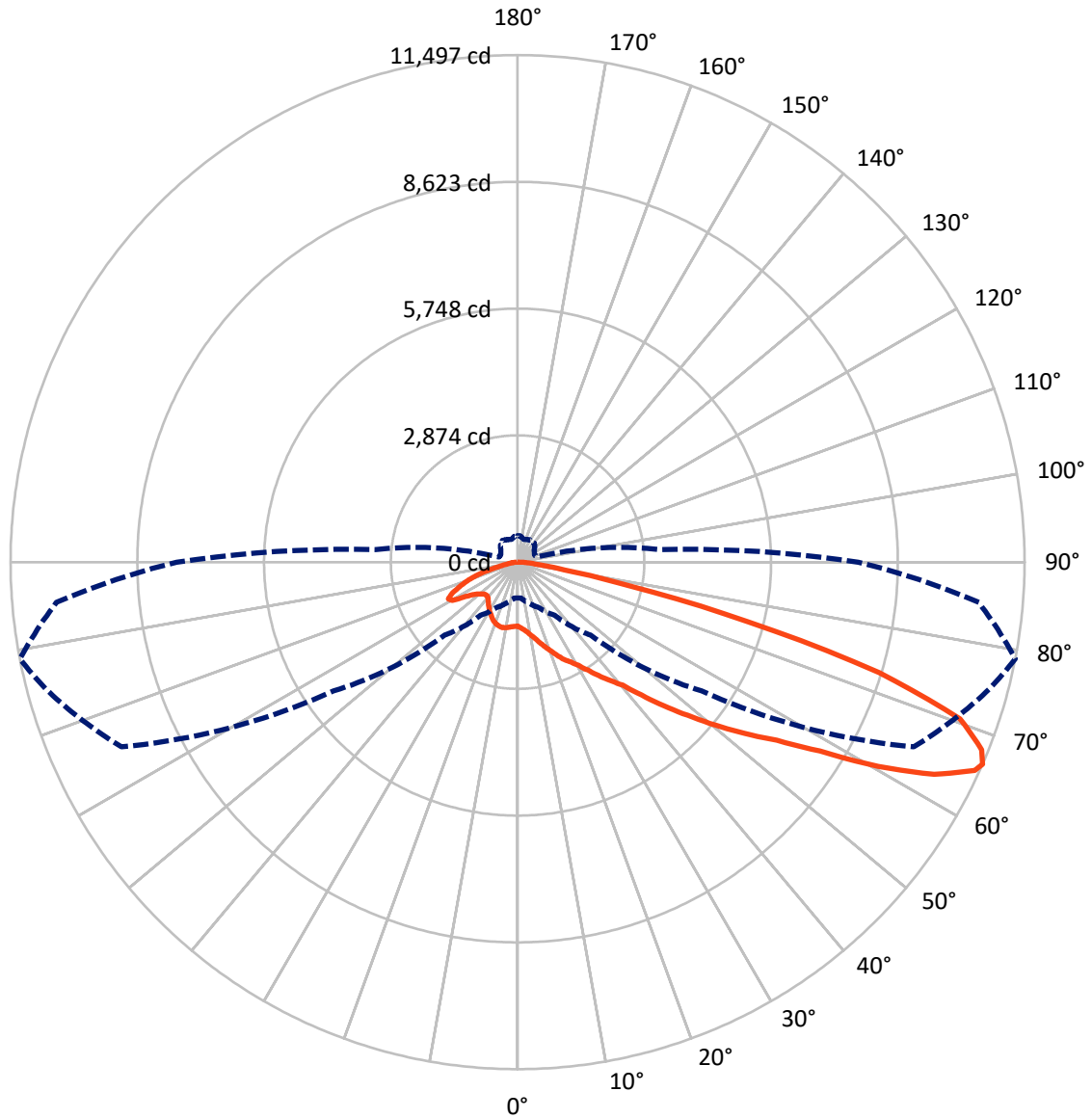
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 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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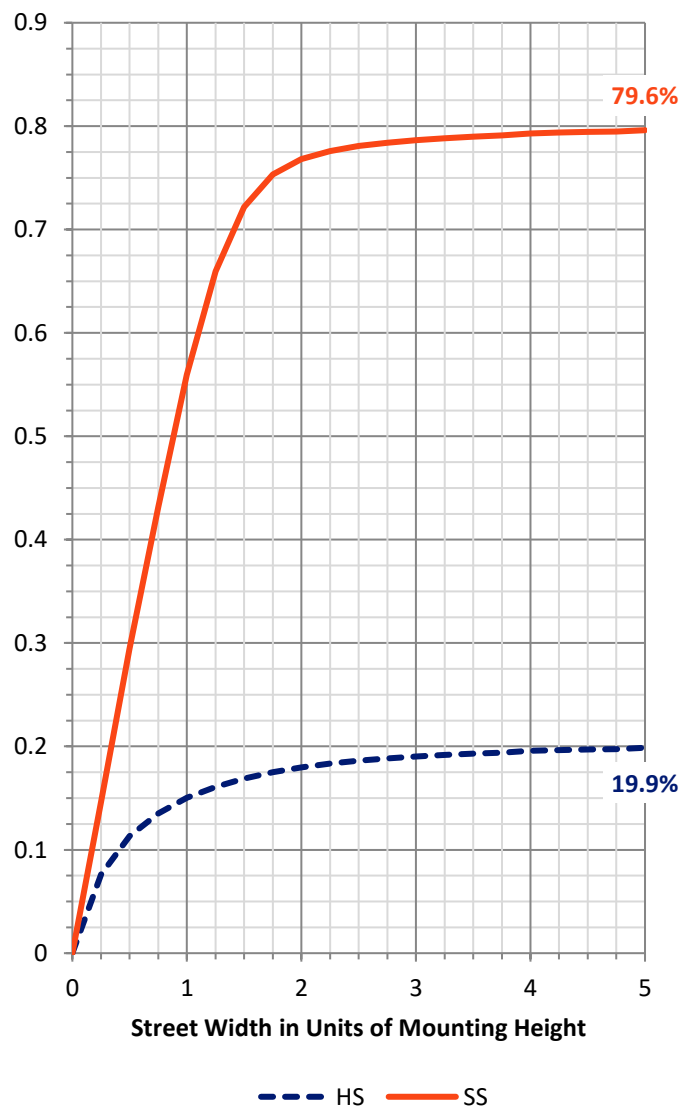
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2323.5	0.0	2323.5
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	9182.7	0.0	9182.7
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	11506.2	0.0	11506.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.9	1.2
10°-20°	441.2	3.8
20°-30°	757.3	6.6
30°-40°	1169.8	10.2
40°-50°	1873.8	16.3
50°-60°	2797.6	24.3
60°-70°	2874.6	25.0
70°-80°	1274.3	11.1
80°-90°	174.8	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°	11506.2	100.0
0°-180°	11506.2	100.0

**Coefficient of Utilization**



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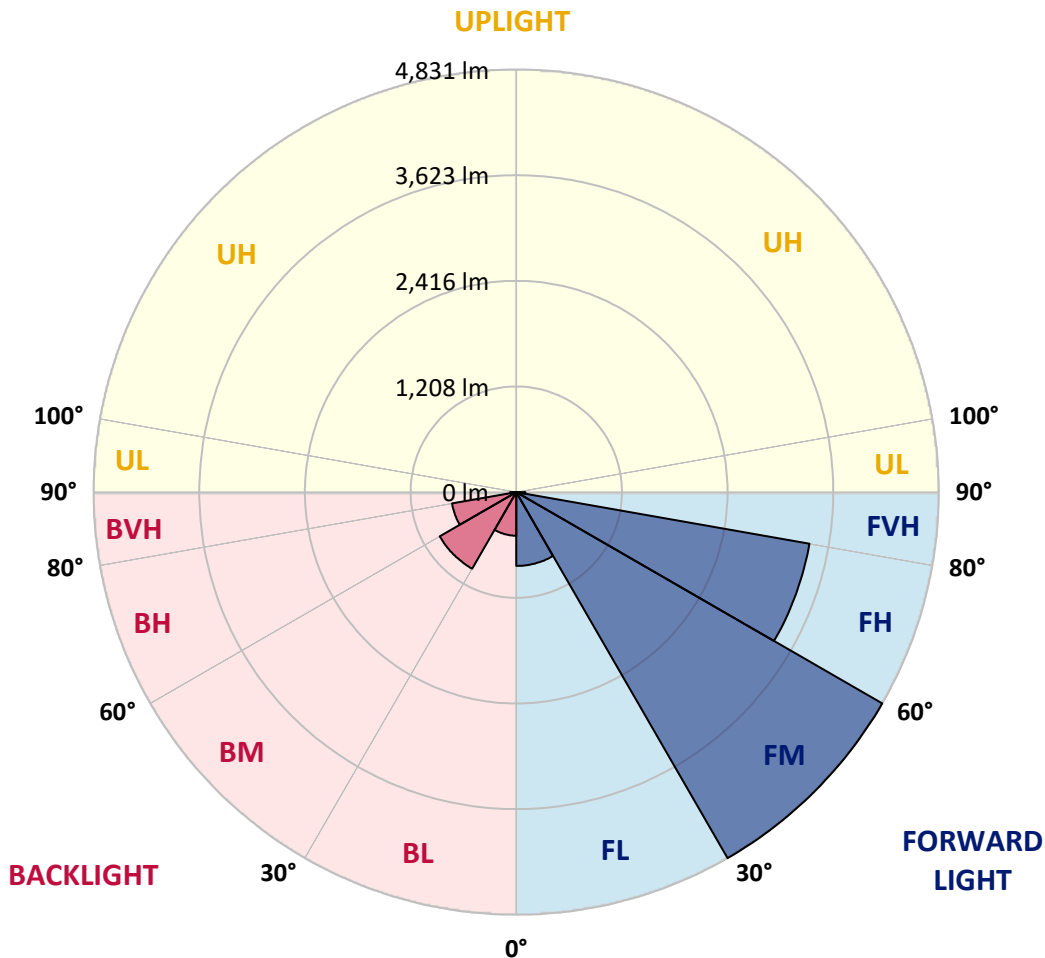
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	843.5	7.3			
FM (30°-60°)	4831.1	42.0			
FH (60°-80°)	3403.3	29.6			G2/5000
FVH (80°-90°)	104.9	0.9			G2/225
BL (0°-30°)	497.8	4.3	B1/500		
BM (30°-60°)	1010.2	8.8	B2/2500		
BH (60°-80°)	745.6	6.5	B2/1000		G2/1000
BVH (80°-90°)	70.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1452.9	1452.9	1452.9	1452.9	1452.9	1452.9	1452.9	1452.9	1452.9	1452.9	1452.9
2.5°	1545.3	1546.6	1546.6	1541.5	1542.8	1546.6	1532.6	1502.3	1502.3	1497.2	1488.3
5°	1640.2	1633.9	1625.0	1626.3	1621.2	1621.2	1606.0	1576.9	1551.6	1541.5	1514.9
7.5°	1652.9	1659.2	1657.9	1673.1	1680.7	1680.7	1688.3	1664.3	1626.3	1602.3	1575.7
10°	1678.2	1661.7	1660.5	1695.9	1707.3	1733.9	1764.2	1751.6	1720.0	1685.8	1650.3
12.5°	1693.4	1703.5	1703.5	1721.2	1747.8	1787.0	1840.2	1864.2	1814.9	1779.4	1725.0
15°	1716.2	1702.2	1742.7	1757.9	1808.5	1836.4	1912.3	1974.3	1941.4	1898.4	1812.3
17.5°	1726.3	1717.4	1740.2	1768.0	1854.1	1895.9	1988.3	2074.3	2046.5	2018.6	1930.0
20°	1778.2	1776.9	1787.0	1809.8	1871.8	1954.1	2069.3	2188.2	2198.3	2147.7	2027.5
22.5°	1904.7	1888.3	1888.3	1879.4	1906.0	1990.8	2146.5	2311.0	2356.5	2297.1	2137.6
25°	2021.2	2043.9	2030.0	1989.5	1979.4	2023.7	2202.1	2441.3	2502.1	2446.4	2286.9
27.5°	2170.5	2178.1	2202.1	2147.7	2078.1	2092.0	2262.9	2514.7	2640.0	2565.4	2371.7
30°	2385.7	2371.7	2366.7	2305.9	2214.8	2195.8	2332.5	2622.3	2821.0	2716.0	2471.7
32.5°	2531.2	2565.4	2564.1	2480.6	2370.5	2328.7	2418.6	2723.6	3014.7	2917.2	2656.5
35°	2819.8	2855.2	2827.4	2704.6	2575.5	2492.0	2542.6	2855.2	3236.1	3160.2	2813.4
37.5°	3188.0	3271.6	3212.1	2985.6	2803.3	2712.2	2714.7	2998.2	3462.7	3400.7	2981.8
40°	3442.4	3555.1	3472.8	3260.2	3066.6	2980.5	2946.3	3167.8	3733.5	3667.7	3245.0
42.5°	3757.6	3851.2	3808.2	3598.1	3371.6	3298.2	3229.8	3451.3	4147.4	4117.0	3582.9
45°	4101.8	4146.1	4132.2	3999.3	3747.4	3722.1	3571.5	3824.6	4634.6	4647.3	4005.6
47.5°	4422.0	4446.1	4472.6	4376.4	4219.5	4241.0	3965.1	4224.6	5108.0	5191.5	4476.4
50°	4504.3	4586.5	4648.6	4713.1	4747.3	4892.8	4399.2	4715.6	5652.2	5814.2	5000.4
52.5°	4420.7	4414.4	4603.0	4805.5	5147.2	5452.2	4990.3	5325.6	6133.1	6453.3	5480.1
55°	4041.1	4028.4	4332.2	4600.5	5267.4	5763.5	5834.4	6138.2	6714.0	7130.4	6129.3
57.5°	3376.6	3298.2	3629.7	4070.2	5006.7	5797.7	6682.4	7344.3	7607.5	8082.1	7120.3
60°	2269.2	2236.3	2554.0	3079.2	4065.1	5313.0	7189.9	8854.1	8866.8	9400.9	8658.0
62.5°	1397.2	1403.6	1607.3	2000.9	2846.3	4211.9	6970.9	10060.3	10062.8	10598.1	9923.6
65°	913.8	917.6	1082.1	1299.8	1778.2	2856.5	5764.8	10155.2	10894.3	11391.7	10503.2
66°	813.8	815.0	956.8	1134.0	1473.2	2337.6	5091.5	9908.4	11081.6	11496.7	10495.6
67.5°	686.0	702.4	816.3	953.0	1149.2	1679.5	4039.8	9194.6	10985.4	11349.9	10257.7
70°	536.6	545.5	635.3	774.5	861.9	972.0	2400.8	7494.9	10055.2	10646.2	9392.0
72.5°	430.3	437.9	506.2	629.0	699.9	640.4	1307.4	5438.3	7942.9	8573.2	7387.3
75°	363.2	364.5	397.4	494.9	575.8	480.9	696.1	3490.5	5096.6	5390.2	4525.8
77.5°	293.6	298.7	321.5	377.1	463.2	378.4	415.1	1955.4	2559.0	2580.6	2092.0
80°	239.2	241.7	255.7	274.6	353.1	279.7	281.0	954.3	1097.3	1072.0	850.5
82.5°	188.6	191.1	207.6	203.8	259.4	200.0	174.7	459.4	505.0	494.9	391.1
85°	106.3	106.3	163.3	163.3	164.5	126.6	106.3	216.4	267.0	249.3	183.5
87.5°	34.2	35.4	49.4	51.9	82.3	57.0	51.9	81.0	126.6	111.4	65.8
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°	1452.9	1452.9	1452.9	1452.9	1452.9	1452.9	1452.9	1452.9	1452.9	1452.9	1452.9
2.5°	1483.3	1463.0	1454.2	1425.1	1417.5	1398.5	1389.6	1378.2	1374.4	1358.0	1373.2
5°	1494.7	1488.3	1452.9	1416.2	1388.4	1375.7	1356.7	1331.4	1328.9	1306.1	1303.6
7.5°	1542.8	1521.3	1459.2	1420.0	1364.3	1332.7	1290.9	1278.3	1261.8	1254.2	1270.7
10°	1617.4	1563.0	1470.6	1371.9	1303.6	1265.6	1235.2	1226.4	1227.6	1222.6	1215.0
12.5°	1670.6	1618.7	1451.6	1331.4	1242.8	1206.1	1203.6	1212.4	1226.4	1220.0	1228.9
15°	1746.5	1649.1	1437.7	1264.3	1193.5	1183.3	1182.1	1208.6	1207.4	1207.4	1206.1
17.5°	1817.4	1679.5	1387.1	1206.1	1141.6	1149.2	1158.0	1156.8	1169.4	1174.5	1183.3
20°	1907.3	1714.9	1316.2	1147.9	1102.3	1099.8	1098.5	1099.8	1112.5	1120.1	1113.7
22.5°	1985.7	1722.5	1256.7	1092.2	1055.5	1045.4	1028.9	1045.4	1039.1	1041.6	1049.2
25°	2054.1	1723.7	1171.9	1050.4	1008.7	985.9	973.2	972.0	960.6	959.3	959.3
27.5°	2111.0	1680.7	1097.3	992.2	953.0	931.5	930.2	916.3	887.2	868.2	870.7
30°	2155.3	1647.8	1045.4	941.6	903.6	899.8	888.5	856.8	818.8	794.8	794.8
32.5°	2233.8	1582.0	974.5	889.7	870.7	865.7	839.1	811.3	775.8	753.0	749.2
35°	2292.0	1521.3	927.7	845.4	836.6	826.4	803.7	773.3	763.2	758.1	761.9
37.5°	2357.8	1452.9	870.7	807.5	816.3	797.3	770.8	756.8	792.3	783.4	787.2
40°	2462.9	1404.8	815.0	784.7	793.5	772.0	737.8	732.8	777.1	745.4	737.8
42.5°	2655.2	1403.6	780.9	750.5	756.8	740.4	710.0	707.5	725.2	687.2	675.8
45°	2894.4	1447.8	755.6	725.2	720.1	717.6	707.5	696.1	680.9	631.5	618.9
47.5°	3180.5	1520.0	750.5	687.2	693.5	715.1	702.4	673.3	634.1	602.4	596.1
50°	3527.2	1669.3	737.8	659.4	670.8	704.9	694.8	654.3	618.9	598.6	594.8
52.5°	3910.7	1857.9	721.4	616.3	641.7	696.1	701.1	663.2	611.3	593.6	591.0
55°	4362.5	2136.3	702.4	569.5	607.5	687.2	701.1	637.9	601.2	601.2	598.6
57.5°	5254.8	2637.5	663.2	526.5	577.1	670.8	680.9	639.1	602.4	602.4	597.4
60°	6563.4	3419.7	588.5	493.6	548.0	648.0	665.7	620.1	588.5	596.1	594.8
62.5°	7587.3	3657.6	525.2	461.9	518.9	606.2	645.5	599.9	572.1	599.9	602.4
65°	7806.2	3417.1	460.7	427.8	478.4	565.7	616.3	570.8	548.0	602.4	605.0
66°	7727.8	3229.8	437.9	417.6	460.7	545.5	598.6	560.7	535.3	599.9	601.2
67.5°	7378.5	2948.9	412.6	396.1	436.6	516.4	578.4	546.7	515.1	592.3	580.9
70°	6619.1	2500.8	369.6	358.2	402.5	468.3	531.6	511.3	483.5	545.5	525.2
72.5°	5097.8	1998.4	324.0	325.3	363.2	418.9	484.7	470.8	446.8	478.4	465.7
75°	3104.5	1277.0	282.2	284.8	316.4	372.1	440.4	430.3	401.2	418.9	412.6
77.5°	1375.7	632.8	237.9	243.0	268.3	327.8	383.5	367.0	336.6	340.4	337.9
80°	534.1	299.9	193.6	200.0	216.4	262.0	317.7	302.5	275.9	270.8	268.3
82.5°	256.9	167.1	149.3	151.9	158.2	208.8	273.4	254.4	218.9	196.2	196.2
85°	129.1	103.8	105.0	96.2	105.0	141.7	184.8	154.4	127.8	113.9	116.4
87.5°	51.9	51.9	51.9	44.3	46.8	67.1	86.1	58.2	53.2	31.6	31.6
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)