

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: P481427

Luminaire Tested: **IFLD-S-SA2A-830-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481427  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-830-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

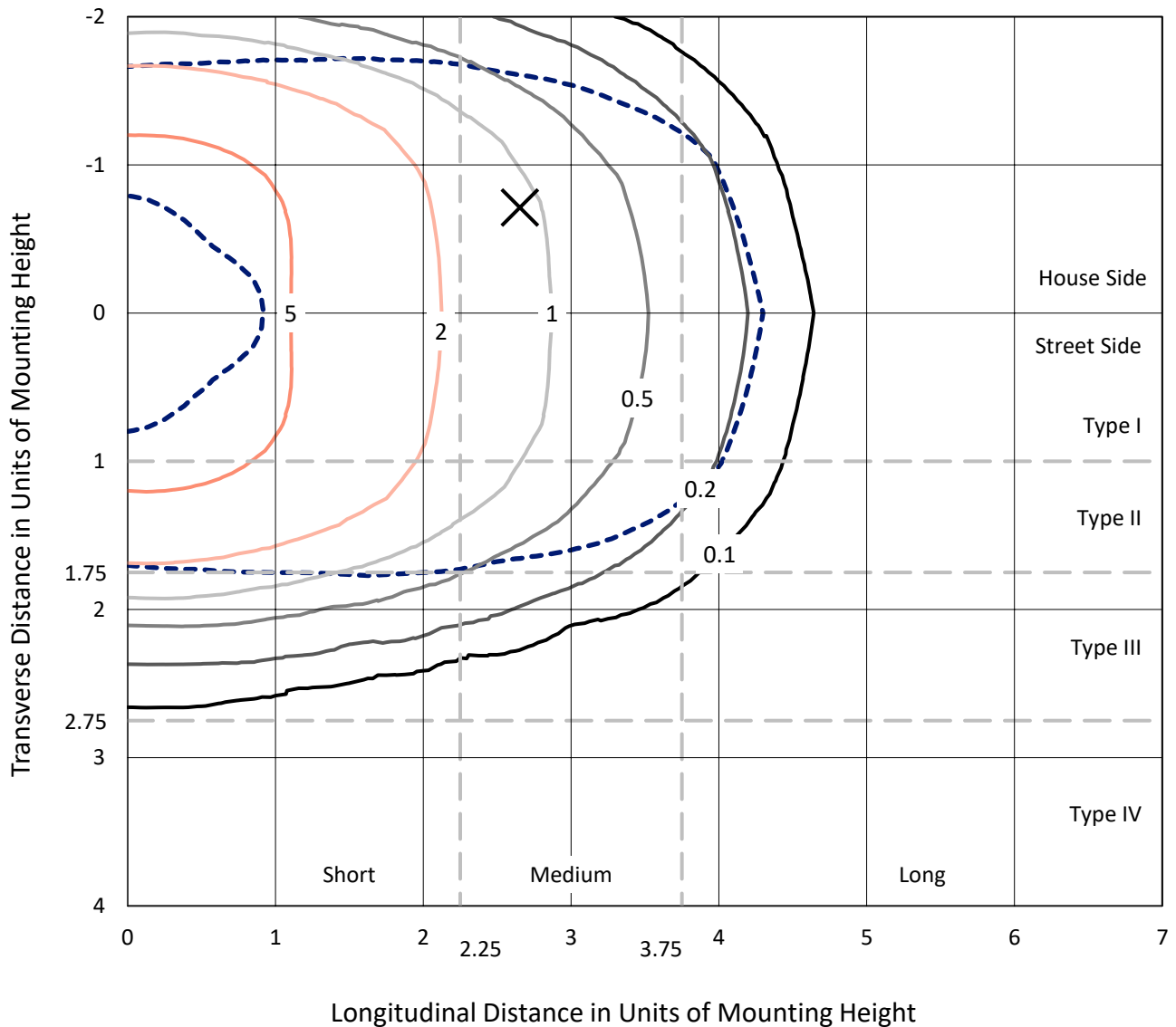
Lumens per Lamp: N/A  
Luminaire Lumens: 7556.2 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 63.8  
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

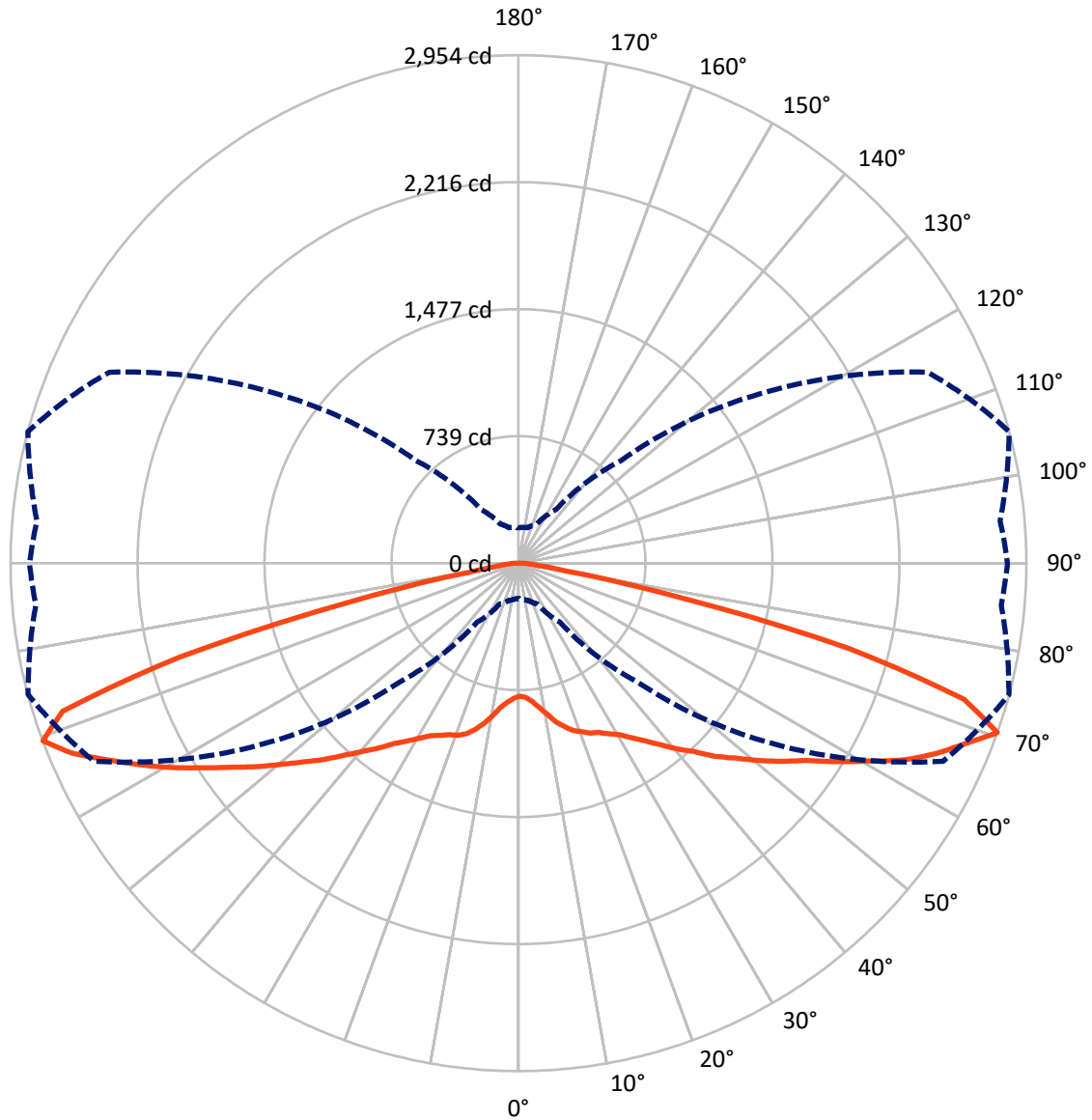
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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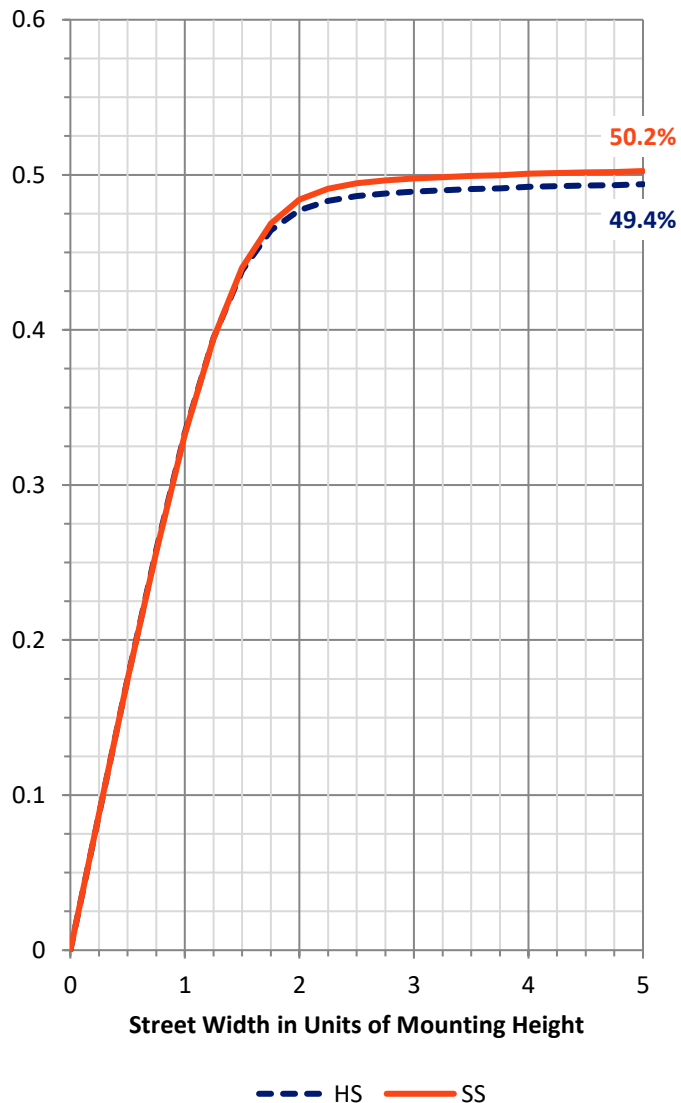
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3751.2	0.0	3751.2
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	3805.0	0.0	3805.0
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	7556.2	0.0	7556.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.0	1.0
10°-20°	262.2	3.5
20°-30°	507.8	6.7
30°-40°	858.8	11.4
40°-50°	1370.1	18.1
50°-60°	1875.4	24.8
60°-70°	1767.6	23.4
70°-80°	778.7	10.3
80°-90°	58.6	0.8
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°	7556.2	100.0
0°-180°	7556.2	100.0

**Coefficient of Utilization**



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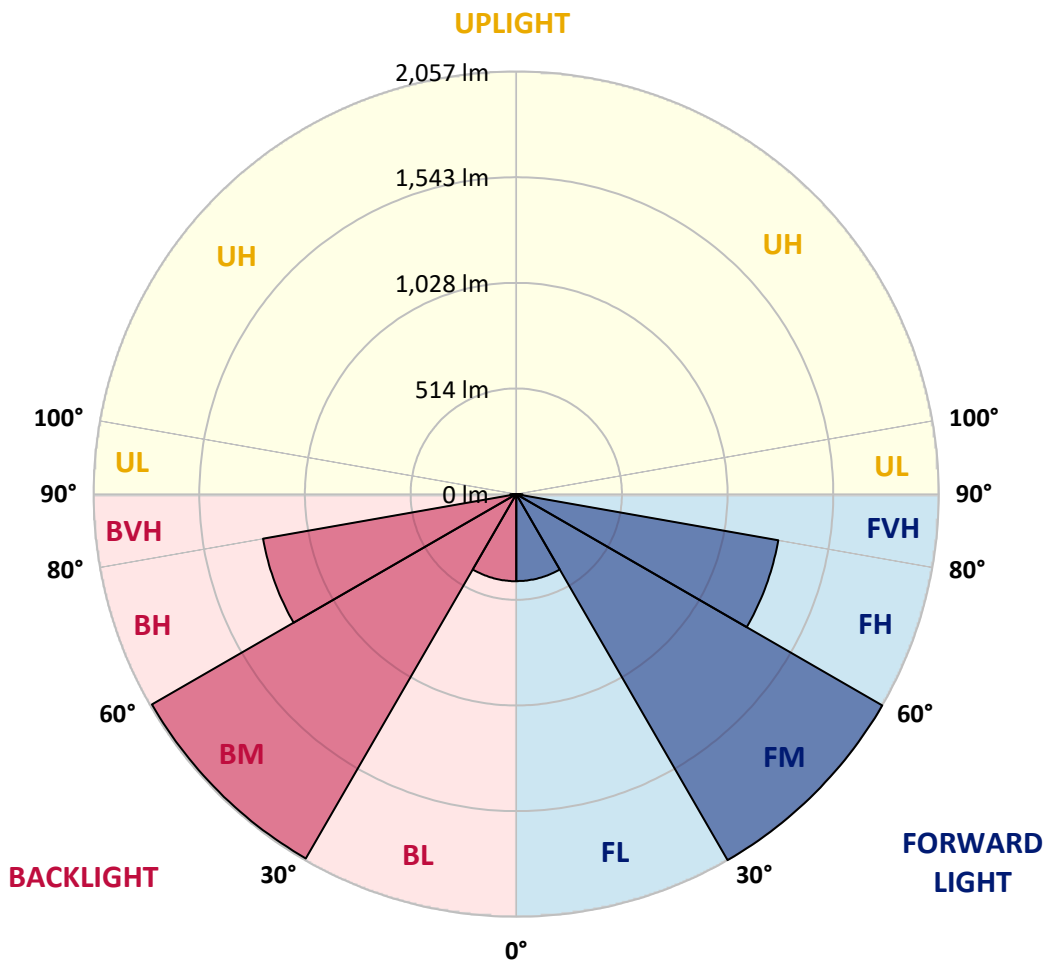
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	423.3	5.6			
FM (30°-60°)	2056.7	27.2			
FH (60°-80°)	1295.0	17.1			G1/1800
FVH (80°-90°)	29.9	0.4			G1/100
BL (0°-30°)	423.7	5.6	B1/500		
BM (30°-60°)	2047.5	27.1	B2/2500		
BH (60°-80°)	1251.3	16.6	B3/2500		G3/2500
BVH (80°-90°)	28.7	0.4			G1/100
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°	85°	90°
0°	773.7	773.7	773.7	773.7	773.7	773.7	773.7	773.7	773.7	773.7	773.7
2.5°	768.9	768.9	768.0	772.1	776.2	777.8	781.1	781.9	786.8	782.7	790.9
5°	766.4	765.6	772.1	781.9	781.9	792.5	799.0	808.0	810.4	815.3	816.9
7.5°	783.5	781.9	778.6	789.2	798.2	814.5	823.4	838.9	844.6	851.1	858.5
10°	794.1	794.1	790.9	809.6	817.7	839.7	859.3	874.7	896.7	904.1	904.9
12.5°	795.7	798.2	808.0	832.4	855.2	883.7	898.4	927.7	949.7	963.5	968.4
15°	820.2	815.3	825.9	859.3	892.7	917.9	944.0	965.1	996.9	1014.8	1026.2
17.5°	842.2	837.3	856.8	896.7	930.9	970.0	992.8	1015.6	1038.5	1054.7	1055.6
20°	877.2	881.3	898.4	941.5	986.3	1020.5	1046.6	1050.7	1062.1	1085.7	1081.6
22.5°	920.4	917.1	952.9	1000.2	1049.0	1077.5	1092.2	1081.6	1075.9	1101.2	1106.9
25°	963.5	973.3	1005.9	1049.9	1108.5	1146.8	1150.8	1121.5	1100.4	1109.3	1106.9
27.5°	1029.5	1031.1	1065.3	1117.5	1176.9	1210.3	1207.9	1166.3	1125.6	1126.4	1128.0
30°	1114.2	1106.1	1143.5	1190.8	1249.4	1279.5	1283.6	1224.1	1169.6	1153.3	1157.4
32.5°	1195.6	1205.4	1238.0	1291.8	1334.9	1352.0	1343.1	1290.1	1219.3	1197.3	1199.7
35°	1299.9	1298.3	1343.1	1388.7	1421.3	1424.5	1417.2	1339.8	1273.0	1244.5	1233.1
37.5°	1411.5	1426.1	1455.5	1492.9	1527.1	1528.8	1488.9	1427.0	1344.7	1297.5	1311.3
40°	1536.1	1552.4	1573.6	1628.1	1653.4	1627.3	1586.6	1502.7	1417.2	1375.6	1382.2
42.5°	1646.0	1653.4	1696.5	1760.9	1773.1	1761.7	1701.4	1599.6	1500.3	1454.6	1457.9
45°	1747.0	1756.8	1813.0	1870.8	1899.3	1879.8	1809.8	1712.8	1597.2	1558.1	1542.6
47.5°	1839.9	1859.4	1914.0	1973.5	2017.4	2019.1	1932.7	1815.5	1693.3	1642.0	1641.2
50°	1902.6	1931.1	1984.9	2052.5	2116.8	2142.1	2055.7	1929.5	1798.4	1743.8	1738.1
52.5°	1936.8	1966.1	2019.9	2125.0	2196.6	2235.7	2195.0	2036.2	1921.3	1864.3	1855.4
55°	1895.3	1914.8	2002.8	2150.2	2261.0	2325.3	2298.4	2183.6	2043.5	1997.1	2005.2
57.5°	1718.5	1759.3	1867.6	2051.7	2259.3	2417.3	2414.9	2322.9	2184.4	2140.4	2142.1
60°	1414.7	1448.9	1582.5	1839.9	2168.1	2454.8	2541.1	2458.1	2342.4	2291.1	2289.5
62.5°	998.5	1041.7	1196.5	1477.5	1899.3	2402.7	2686.1	2628.3	2497.2	2459.7	2473.5
65°	558.7	584.8	728.1	982.3	1447.3	2116.0	2712.2	2805.0	2654.4	2597.3	2599.8
67.5°	298.9	308.7	375.5	515.6	885.3	1631.4	2449.1	2906.8	2824.6	2726.0	2710.6
70°	205.2	208.5	225.6	263.9	418.6	975.7	1847.2	2725.2	2952.5	2818.1	2844.1
72.5°	173.5	171.9	175.9	180.0	219.1	436.6	1084.1	2097.3	2787.1	2736.6	2726.8
75°	150.7	149.9	151.5	147.4	152.3	192.2	479.7	1307.2	2040.2	2277.3	2313.9
77.5°	124.6	125.4	126.2	122.2	120.5	127.1	193.0	574.2	1004.2	1108.5	1195.6
80°	94.5	96.1	102.6	98.6	92.0	92.8	114.0	192.2	288.3	261.4	269.6
82.5°	64.3	65.2	79.0	74.1	69.2	62.7	73.3	99.4	112.4	85.5	74.9
85°	45.6	44.8	51.3	47.2	44.0	31.8	44.0	56.2	67.6	42.4	38.3
87.5°	10.6	10.6	21.2	17.1	16.3	13.0	17.1	22.0	29.3	18.7	17.1
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	773.7	773.7	773.7	773.7	773.7	773.7	773.7	773.7	773.7	773.7
2.5°	788.4	781.1	781.1	779.4	772.9	771.3	765.6	767.2	763.2	759.1
5°	816.1	806.3	806.3	792.5	779.4	777.8	771.3	771.3	764.8	766.4
7.5°	854.4	845.4	830.8	818.5	800.6	793.3	781.1	779.4	777.8	774.6
10°	900.0	888.6	873.9	848.7	834.0	820.2	808.0	790.9	786.8	787.6
12.5°	961.9	944.0	912.2	890.2	871.5	853.6	835.6	810.4	804.7	807.1
15°	1005.9	983.1	951.3	943.2	917.9	895.9	866.6	838.1	828.3	825.9
17.5°	1041.7	1023.0	1004.2	992.0	971.7	944.8	904.1	871.5	849.5	847.0
20°	1071.0	1046.6	1042.5	1049.9	1024.6	1006.7	957.0	917.1	887.8	875.6
22.5°	1088.9	1073.5	1084.9	1091.4	1089.8	1059.6	1008.3	961.9	925.2	913.8
25°	1108.5	1090.6	1131.3	1153.3	1159.0	1109.3	1069.4	1008.3	972.5	965.1
27.5°	1118.3	1124.8	1172.0	1218.4	1214.4	1176.1	1122.3	1067.8	1039.3	1026.2
30°	1146.8	1157.4	1229.0	1281.2	1282.0	1244.5	1203.8	1141.9	1110.1	1104.4
32.5°	1198.1	1211.1	1287.7	1343.1	1352.8	1324.3	1283.6	1245.3	1212.7	1199.7
35°	1237.2	1270.6	1356.9	1407.4	1433.5	1416.4	1393.6	1353.7	1319.4	1308.0
37.5°	1293.4	1339.8	1422.9	1491.3	1520.6	1519.0	1501.9	1458.7	1430.2	1420.4
40°	1374.0	1420.4	1496.2	1586.6	1641.2	1638.7	1628.9	1595.5	1553.2	1548.3
42.5°	1459.5	1497.8	1596.4	1699.8	1778.0	1769.8	1743.8	1704.7	1675.4	1668.9
45°	1542.6	1602.1	1693.3	1826.0	1884.7	1905.0	1874.1	1807.3	1773.9	1769.8
47.5°	1646.9	1694.1	1808.1	1927.0	2014.2	2017.4	1964.5	1902.6	1841.5	1854.6
50°	1739.7	1802.4	1918.1	2048.4	2152.6	2115.2	2047.6	1970.2	1926.2	1909.1
52.5°	1839.1	1915.6	2050.0	2182.8	2240.6	2203.1	2093.2	2006.9	1940.1	1932.7
55°	1984.1	2024.0	2199.9	2301.7	2320.4	2241.4	2079.3	1957.2	1870.8	1849.7
57.5°	2131.5	2177.9	2331.8	2419.8	2400.2	2220.2	1989.8	1800.8	1687.6	1657.4
60°	2280.5	2337.5	2467.0	2547.7	2446.7	2074.5	1736.5	1492.9	1361.0	1334.1
62.5°	2446.7	2520.8	2636.4	2664.9	2309.0	1786.1	1378.1	1077.5	944.0	899.2
65°	2594.1	2669.8	2812.4	2640.5	2016.6	1332.5	891.0	615.7	517.2	481.4
67.5°	2715.4	2801.0	2871.0	2336.7	1476.6	780.3	464.2	324.2	287.5	274.5
70°	2811.6	2954.1	2626.7	1717.7	843.8	380.4	250.9	213.4	208.5	205.2
72.5°	2727.7	2708.9	1961.2	991.2	369.8	209.3	181.6	175.9	175.1	175.9
75°	2230.8	1989.8	1172.8	430.9	185.7	151.5	150.7	148.2	152.3	152.3
77.5°	1082.4	946.4	490.3	184.9	122.2	118.9	123.0	123.0	123.0	123.0
80°	250.9	277.7	175.1	112.4	88.8	88.8	97.7	98.6	94.5	92.8
82.5°	85.5	114.0	96.1	70.9	58.6	66.0	74.1	75.7	62.7	63.5
85°	42.4	66.8	52.1	40.7	30.1	40.7	48.1	50.5	43.2	41.5
87.5°	19.5	29.3	19.5	13.8	10.6	14.7	13.8	11.4	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)