

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: P481154

Luminaire Tested: **IFLD-S-SA2A-727-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481154
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-727-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

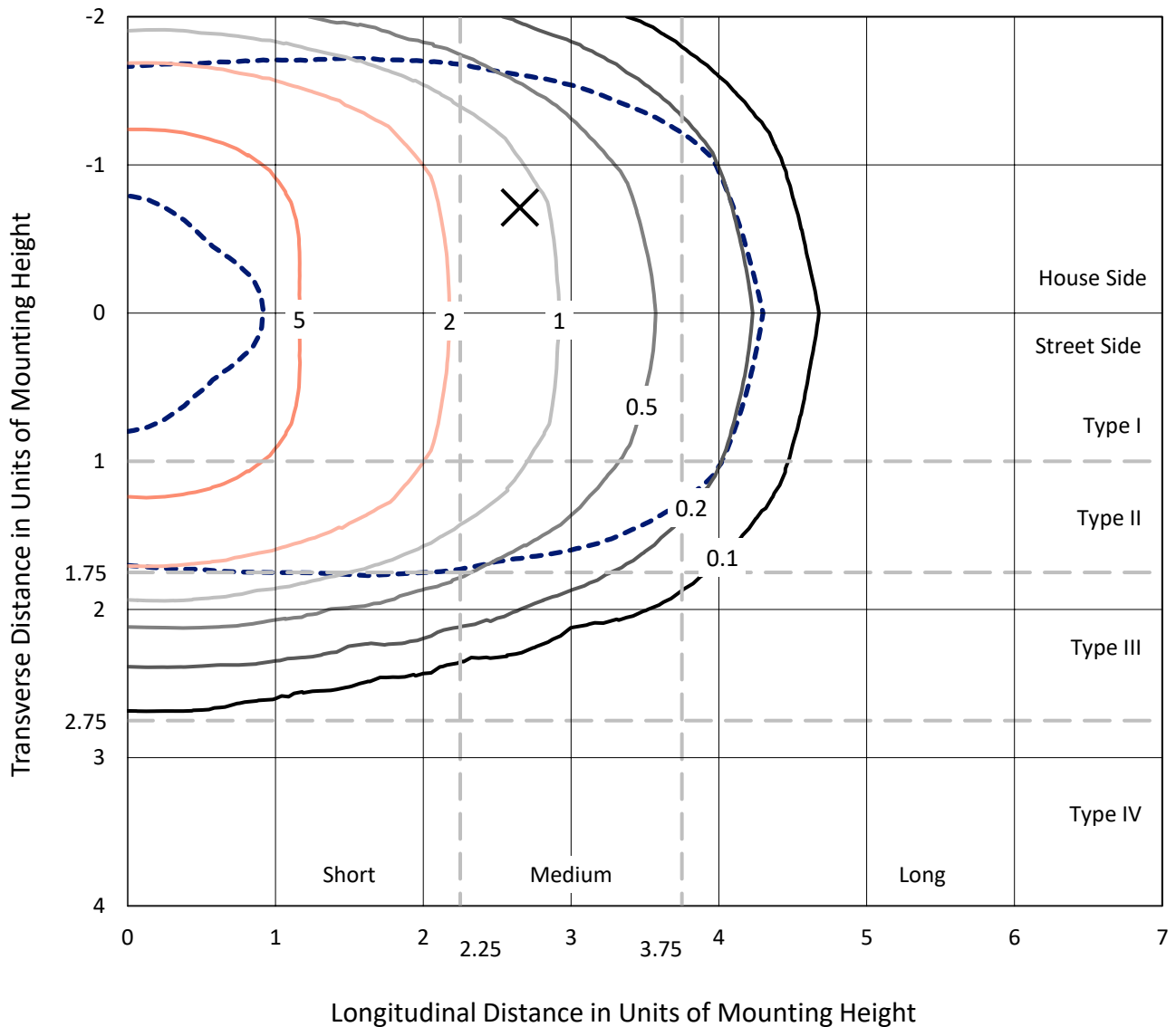
Lumens per Lamp: N/A
Luminaire Lumens: 7952.7 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

REPORT NUMBER: P481154
 CATALOG NUMBER: IFLD-S-SA2A-727-U-RW

Iso-Footcandle Lines of Horizontal Illumination

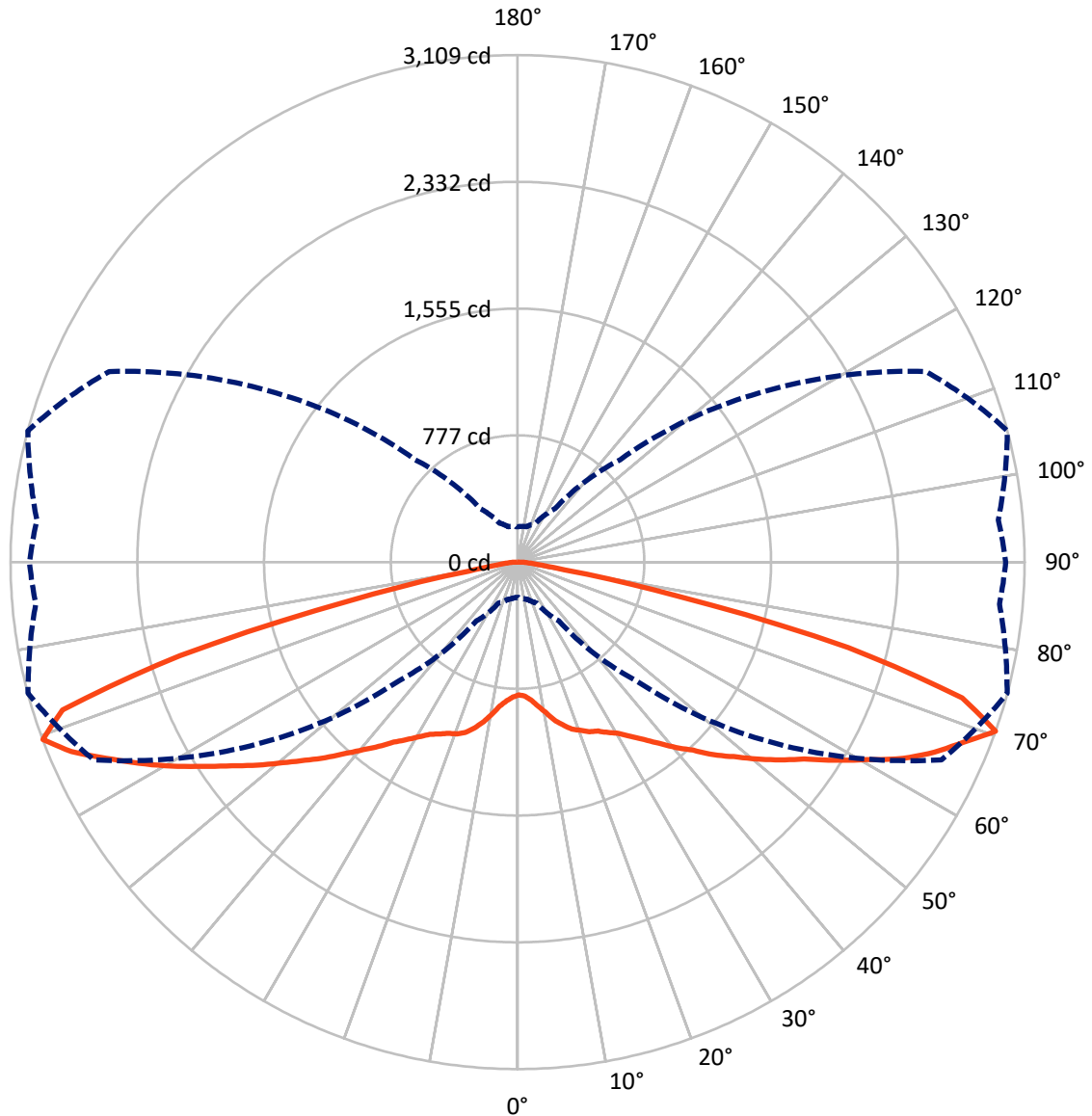
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

REPORT NUMBER: P481154
CATALOG NUMBER: IFLD-S-SA2A-727-U-RW

Luminous Intensity Polar Plot



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

REPORT NUMBER: P481154
 CATALOG NUMBER: IFLD-S-SA2A-727-U-RW

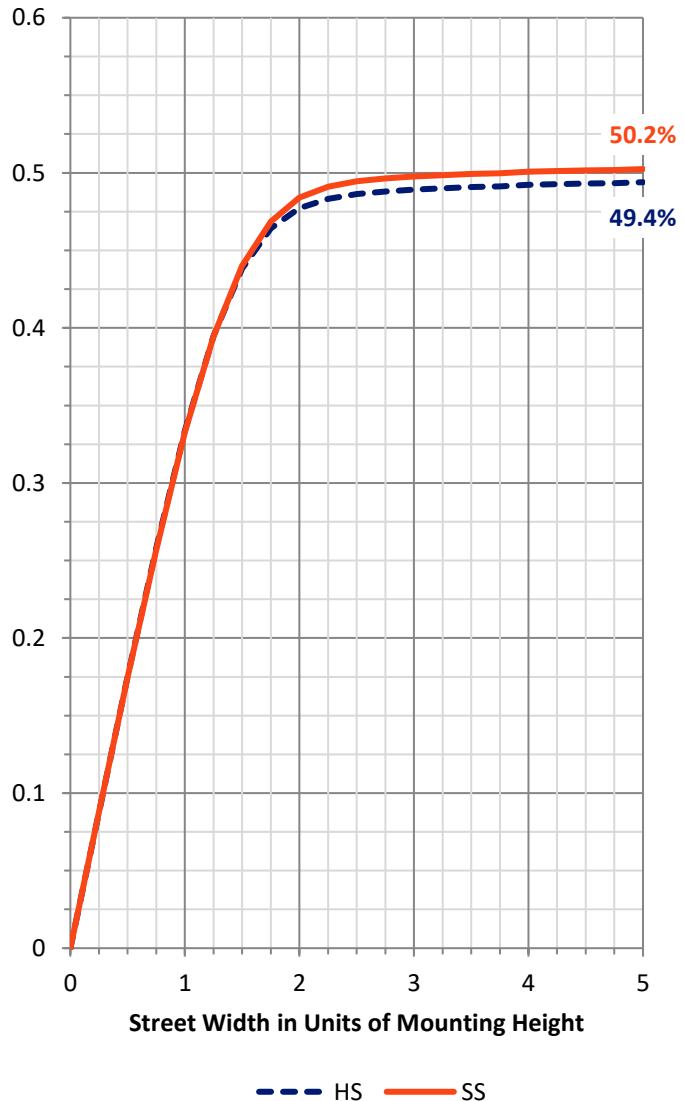
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3948.1	0.0	3948.1
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	4004.7	0.0	4004.7
	% Fixture	50.4	0.0	50.4
Total	Lumens	7952.7	0.0	7952.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.1	1.0
10°-20°	276.0	3.5
20°-30°	534.4	6.7
30°-40°	903.9	11.4
40°-50°	1442.0	18.1
50°-60°	1973.8	24.8
60°-70°	1860.4	23.4
70°-80°	819.6	10.3
80°-90°	61.7	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°	7952.7	100.0
0°-180°	7952.7	100.0

Coefficient of Utilization

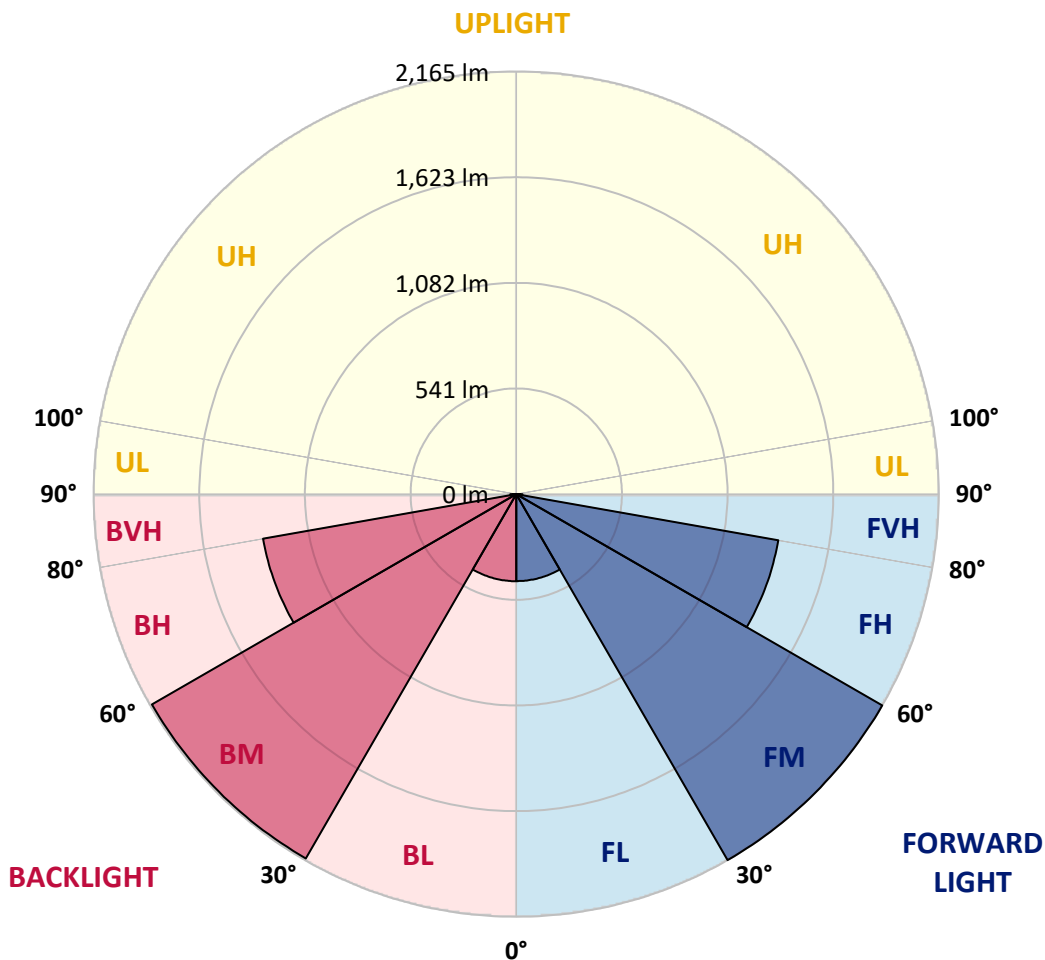


REPORT NUMBER: P481154
 CATALOG NUMBER: IFLD-S-SA2A-727-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	445.5	5.6			
FM (30°-60°)	2164.7	27.2			
FH (60°-80°)	1363.0	17.1			G1/1800
FVH (80°-90°)	31.5	0.4			G1/100
BL (0°-30°)	446.0	5.6	B1/500		
BM (30°-60°)	2155.0	27.1	B2/2500		
BH (60°-80°)	1317.0	16.6	B3/2500		G3/2500
BVH (80°-90°)	30.2	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





REPORT NUMBER: P481154
 CATALOG NUMBER: IFLD-S-SA2A-727-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	814.4	814.4	814.4	814.4	814.4	814.4	814.4	814.4	814.4	814.4	814.4
2.5°	809.2	809.2	808.4	812.6	816.9	818.6	822.1	822.9	828.1	823.8	832.4
5°	806.6	805.8	812.6	822.9	822.9	834.1	840.9	850.4	852.9	858.1	859.8
7.5°	824.6	822.9	819.5	830.6	840.1	857.2	866.6	882.9	888.9	895.8	903.5
10°	835.8	835.8	832.4	852.1	860.6	883.8	904.4	920.6	943.8	951.5	952.4
12.5°	837.5	840.1	850.4	876.1	900.1	930.1	945.5	976.4	999.5	1014.1	1019.2
15°	863.2	858.1	869.2	904.4	939.5	966.1	993.5	1015.8	1049.2	1068.1	1080.1
17.5°	886.4	881.2	901.8	943.8	979.8	1020.9	1044.9	1068.9	1092.9	1110.1	1110.9
20°	923.2	927.5	945.5	990.9	1038.1	1074.1	1101.5	1105.8	1117.8	1142.7	1138.4
22.5°	968.7	965.2	1002.9	1052.7	1104.1	1134.1	1149.5	1138.4	1132.4	1159.0	1165.0
25°	1014.1	1024.4	1058.7	1104.9	1166.7	1207.0	1211.2	1180.4	1158.1	1167.5	1165.0
27.5°	1083.5	1085.2	1121.2	1176.1	1238.7	1273.8	1271.2	1227.5	1184.7	1185.5	1187.2
30°	1172.7	1164.1	1203.5	1253.2	1315.0	1346.7	1351.0	1288.4	1231.0	1213.8	1218.1
32.5°	1258.4	1268.7	1303.0	1359.5	1405.0	1423.0	1413.5	1357.8	1283.2	1260.1	1262.7
35°	1368.1	1366.4	1413.5	1461.5	1495.8	1499.3	1491.6	1410.1	1339.8	1309.8	1297.8
37.5°	1485.6	1501.0	1531.8	1571.3	1607.3	1609.0	1567.0	1501.8	1415.3	1365.5	1380.1
40°	1616.7	1633.8	1656.1	1713.6	1740.1	1712.7	1669.9	1581.6	1491.6	1447.8	1454.7
42.5°	1732.4	1740.1	1785.6	1853.3	1866.2	1854.2	1790.7	1683.6	1579.0	1531.0	1534.4
45°	1838.7	1849.0	1908.2	1969.0	1999.0	1978.4	1904.7	1802.7	1681.0	1639.8	1623.6
47.5°	1936.4	1957.0	2014.5	2077.0	2123.3	2125.0	2034.2	1910.7	1782.1	1728.1	1727.3
50°	2002.5	2032.5	2089.0	2160.2	2227.9	2254.5	2163.6	2030.7	1892.7	1835.3	1829.3
52.5°	2038.5	2069.3	2125.9	2236.5	2311.9	2353.1	2310.2	2143.0	2022.2	1962.2	1952.7
55°	1994.7	2015.3	2107.9	2263.0	2379.6	2447.3	2419.1	2298.2	2150.7	2101.9	2110.5
57.5°	1808.7	1851.6	1965.6	2159.3	2377.9	2544.2	2541.6	2444.8	2299.0	2252.8	2254.5
60°	1489.0	1525.0	1665.6	1936.4	2281.9	2583.6	2674.5	2587.1	2465.3	2411.3	2409.6
62.5°	1050.9	1096.4	1259.2	1555.0	1999.0	2528.8	2827.1	2766.2	2628.2	2588.8	2603.4
65°	588.0	615.5	766.3	1033.8	1523.3	2227.0	2854.5	2952.2	2793.7	2733.7	2736.2
67.5°	314.6	324.9	395.2	542.6	931.8	1717.0	2577.6	3059.4	2972.8	2869.1	2852.8
70°	216.0	219.4	237.4	277.7	440.6	1026.9	1944.2	2868.2	3107.4	2966.0	2993.4
72.5°	182.6	180.9	185.2	189.4	230.6	459.5	1141.0	2207.3	2933.4	2880.2	2870.0
75°	158.6	157.7	159.4	155.2	160.3	202.3	504.9	1375.8	2147.3	2396.8	2435.3
77.5°	131.2	132.0	132.9	128.6	126.9	133.7	203.2	604.3	1056.9	1166.7	1258.4
80°	99.4	101.2	108.0	103.7	96.9	97.7	120.0	202.3	303.5	275.2	283.7
82.5°	67.7	68.6	83.1	78.0	72.9	66.0	77.1	104.6	118.3	90.0	78.9
85°	48.0	47.1	54.0	49.7	46.3	33.4	46.3	59.1	71.1	44.6	40.3
87.5°	11.1	11.1	22.3	18.0	17.1	13.7	18.0	23.1	30.9	19.7	18.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P481154

CATALOG NUMBER: IFLD-S-SA2A-727-U-RW

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	814.4	814.4	814.4	814.4	814.4	814.4	814.4	814.4	814.4	814.4
2.5°	829.8	822.1	822.1	820.4	813.5	811.8	805.8	807.5	803.2	798.9
5°	858.9	848.6	848.6	834.1	820.4	818.6	811.8	811.8	804.9	806.6
7.5°	899.2	889.8	874.4	861.5	842.6	834.9	822.1	820.4	818.6	815.2
10°	947.2	935.2	919.8	893.2	877.8	863.2	850.4	832.4	828.1	828.9
12.5°	1012.4	993.5	960.1	936.9	917.2	898.4	879.5	852.9	846.9	849.5
15°	1058.7	1034.7	1001.2	992.7	966.1	942.9	912.1	882.1	871.8	869.2
17.5°	1096.4	1076.7	1056.9	1044.1	1022.7	994.4	951.5	917.2	894.1	891.5
20°	1127.2	1101.5	1097.2	1104.9	1078.4	1059.5	1007.2	965.2	934.4	921.5
22.5°	1146.1	1129.8	1141.8	1148.7	1147.0	1115.2	1061.2	1012.4	973.8	961.8
25°	1166.7	1147.8	1190.7	1213.8	1219.8	1167.5	1125.5	1061.2	1023.5	1015.8
27.5°	1177.0	1183.8	1233.5	1282.4	1278.1	1237.8	1181.2	1123.8	1093.8	1080.1
30°	1207.0	1218.1	1293.5	1348.4	1349.3	1309.8	1267.0	1201.8	1168.4	1162.4
32.5°	1261.0	1274.7	1355.3	1413.5	1423.8	1393.8	1351.0	1310.7	1276.4	1262.7
35°	1302.1	1337.3	1428.1	1481.3	1508.7	1490.7	1466.7	1424.7	1388.7	1376.7
37.5°	1361.3	1410.1	1497.6	1569.6	1600.4	1598.7	1580.7	1535.3	1505.3	1495.0
40°	1446.1	1495.0	1574.7	1669.9	1727.3	1724.7	1714.4	1679.3	1634.7	1629.6
42.5°	1536.1	1576.4	1680.1	1789.0	1871.3	1862.7	1835.3	1794.1	1763.3	1756.4
45°	1623.6	1686.1	1782.1	1921.9	1983.6	2005.0	1972.4	1902.2	1867.0	1862.7
47.5°	1733.3	1783.0	1903.0	2028.2	2119.9	2123.3	2067.6	2002.5	1938.2	1951.9
50°	1831.0	1897.0	2018.7	2155.9	2265.6	2226.2	2155.0	2073.6	2027.3	2009.3
52.5°	1935.6	2016.2	2157.6	2297.3	2358.2	2318.8	2203.0	2112.2	2041.9	2034.2
55°	2088.2	2130.2	2315.3	2422.5	2442.2	2359.1	2188.5	2059.9	1969.0	1946.7
57.5°	2243.3	2292.2	2454.2	2546.8	2526.2	2336.8	2094.2	1895.3	1776.1	1744.4
60°	2400.2	2460.2	2596.5	2681.4	2575.1	2183.3	1827.6	1571.3	1432.4	1404.1
62.5°	2575.1	2653.1	2774.8	2804.8	2430.2	1879.9	1450.4	1134.1	993.5	946.4
65°	2730.2	2809.9	2960.0	2779.1	2122.5	1402.4	937.8	648.1	544.3	506.6
67.5°	2858.0	2948.0	3021.7	2459.3	1554.1	821.2	488.6	341.2	302.6	288.9
70°	2959.1	3109.1	2764.5	1807.9	888.1	400.3	264.0	224.6	219.4	216.0
72.5°	2870.8	2851.1	2064.2	1043.2	389.2	220.3	191.2	185.2	184.3	185.2
75°	2347.9	2094.2	1234.4	453.5	195.4	159.4	158.6	156.0	160.3	160.3
77.5°	1139.2	996.1	516.0	194.6	128.6	125.2	129.4	129.4	129.4	129.4
80°	264.0	292.3	184.3	118.3	93.4	93.4	102.9	103.7	99.4	97.7
82.5°	90.0	120.0	101.2	74.6	61.7	69.4	78.0	79.7	66.0	66.9
85°	44.6	70.3	54.9	42.9	31.7	42.9	50.6	53.1	45.4	43.7
87.5°	20.6	30.9	20.6	14.6	11.1	15.4	14.6	12.0	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)