

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: P478775

Luminaire Tested: **IFLD-S-SA2A-722-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478775
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-722-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

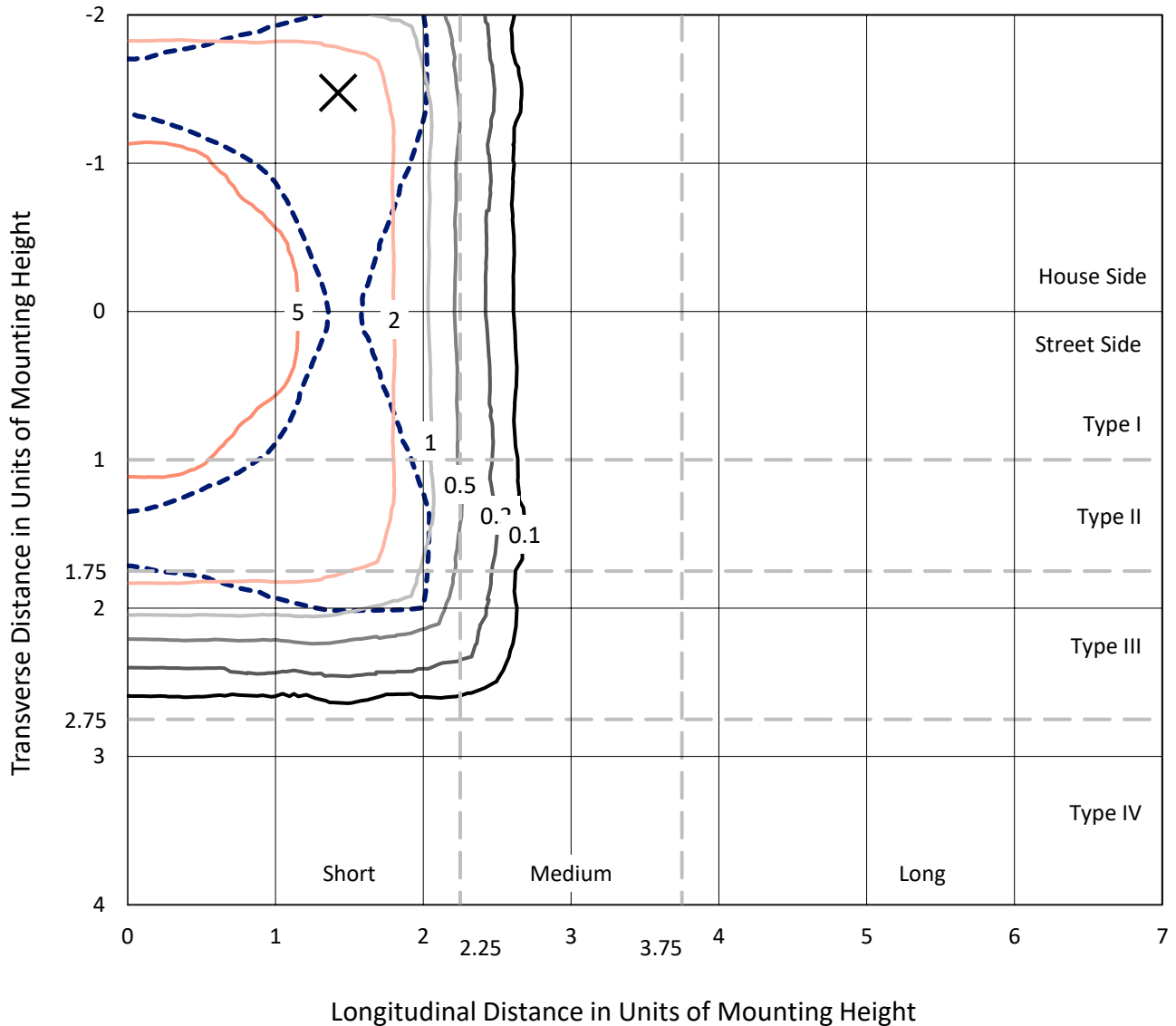
Lumens per Lamp: N/A
Luminaire Lumens: 6782.6 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

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

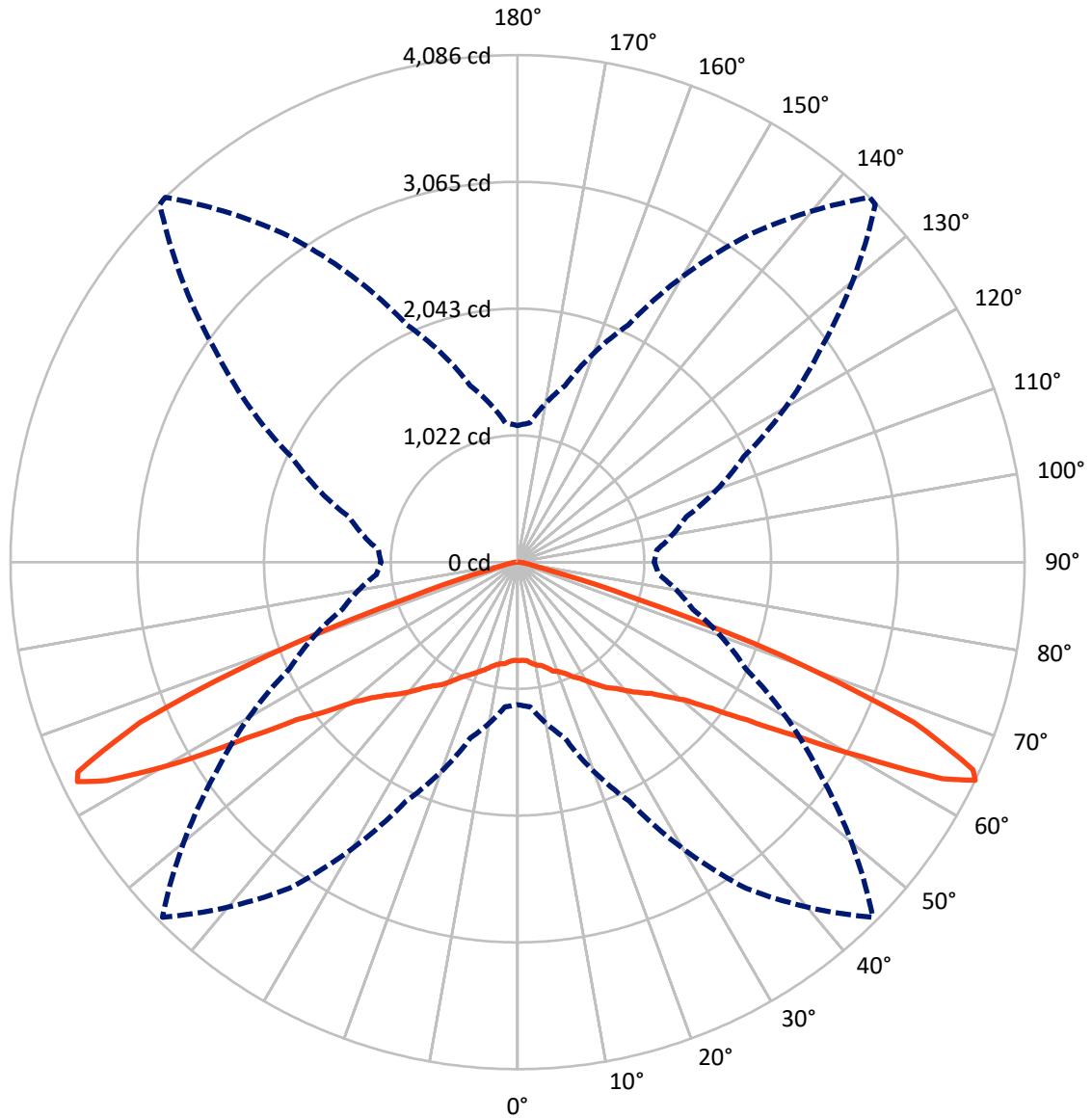
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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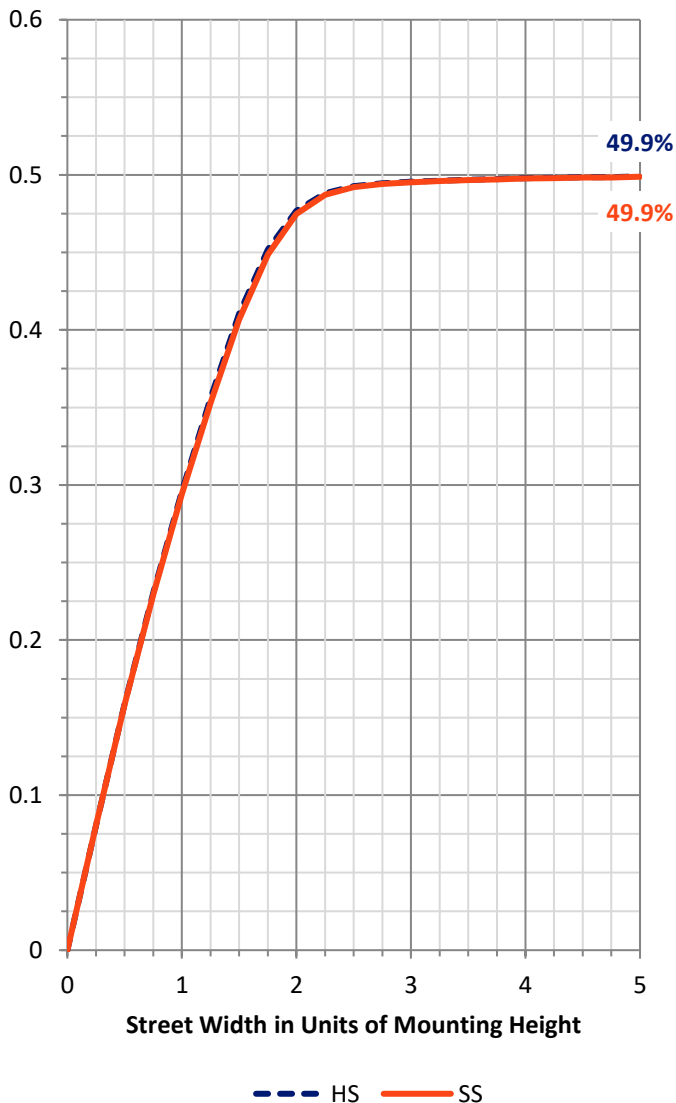
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3394.5	0.0	3394.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3388.1	0.0	3388.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	6782.6	0.0	6782.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	1.2
10°-20°	251.5	3.7
20°-30°	472.6	7.0
30°-40°	779.5	11.5
40°-50°	1219.0	18.0
50°-60°	1969.6	29.0
60°-70°	1773.5	26.1
70°-80°	210.1	3.1
80°-90°	28.8	0.4
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°	6782.6	100.0
0°-180°	6782.6	100.0



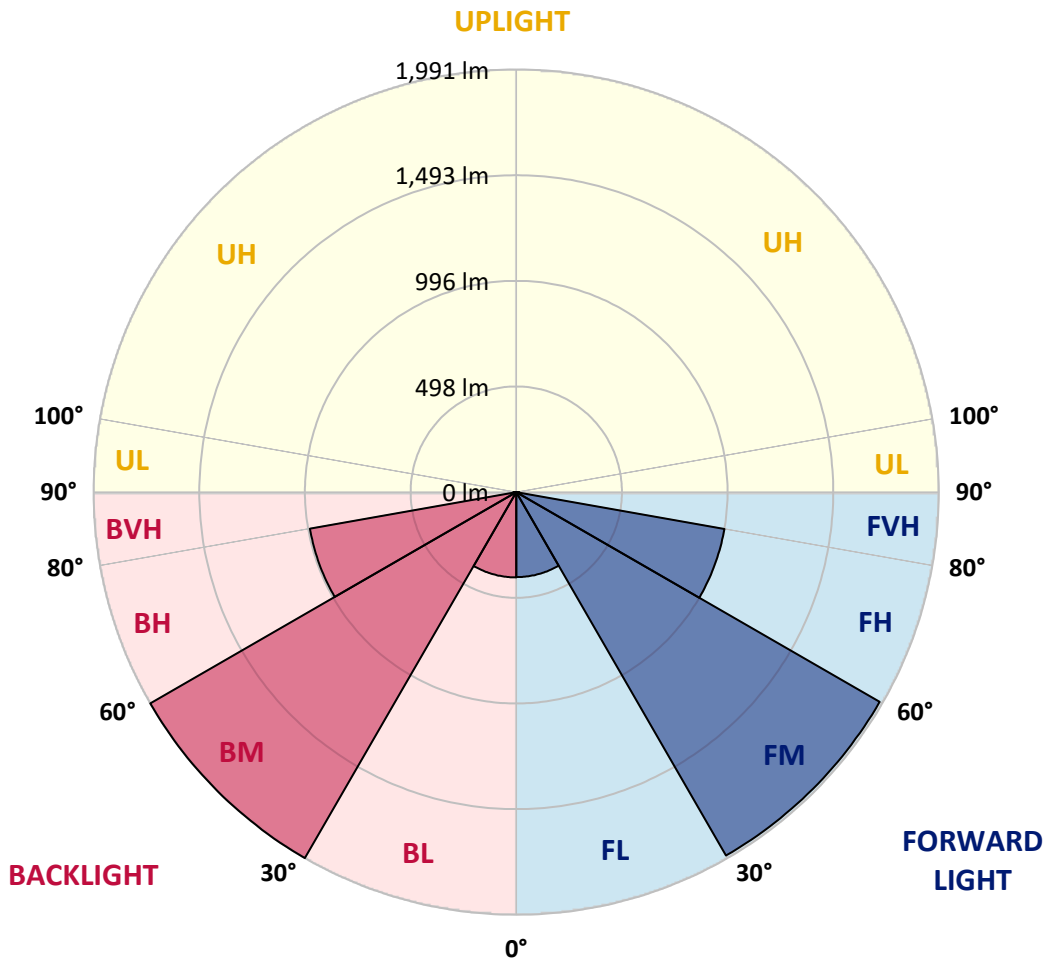
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	400.3	5.9			
FM (30°-60°)	1976.9	29.1			
FH (60°-80°)	996.1	14.7			G1/1800
FVH (80°-90°)	14.8	0.2			G1/100
BL (0°-30°)	401.8	5.9	B1/500		
BM (30°-60°)	1991.2	29.4	B2/2500		
BH (60°-80°)	987.5	14.6	B2/1000		G1/1800
BVH (80°-90°)	14.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1
2.5°	784.8	786.3	800.3	794.9	799.5	791.0	797.2	810.4	794.9	806.5	810.4
5°	793.3	795.7	795.7	801.1	804.2	802.7	806.5	801.1	815.9	809.7	819.0
7.5°	824.4	820.5	814.3	819.0	819.8	823.7	827.5	834.5	832.2	826.8	836.1
10°	829.9	826.8	836.1	836.9	833.0	829.9	833.8	833.8	840.8	842.3	842.3
12.5°	839.2	842.3	841.5	847.8	848.5	846.2	852.4	864.1	861.0	863.3	857.9
15°	875.0	871.1	870.3	876.5	886.7	871.9	882.8	882.0	878.9	883.5	871.1
17.5°	906.1	893.7	899.1	909.2	905.3	908.4	922.4	910.0	913.1	907.7	903.8
20°	933.3	923.2	924.0	927.9	927.9	937.2	942.7	938.0	934.9	934.1	935.7
22.5°	963.7	952.0	952.8	969.1	974.5	971.4	967.5	975.3	976.9	970.7	977.7
25°	986.2	998.7	1002.5	1010.3	998.7	1007.2	1004.1	1018.9	1028.2	1015.8	1024.3
27.5°	1045.3	1039.9	1050.0	1049.2	1058.5	1050.0	1055.4	1060.1	1064.0	1064.8	1060.9
30°	1098.2	1100.5	1090.4	1117.7	1095.9	1109.9	1119.2	1121.5	1126.2	1126.2	1114.5
32.5°	1154.2	1149.5	1165.9	1159.7	1155.8	1166.7	1156.5	1188.4	1169.8	1180.7	1167.4
35°	1217.2	1217.2	1223.4	1240.5	1217.2	1210.2	1228.9	1242.1	1242.1	1222.7	1227.3
37.5°	1288.0	1281.8	1289.5	1311.3	1293.4	1270.1	1304.3	1309.8	1305.9	1300.4	1291.1
40°	1337.8	1336.2	1351.8	1380.5	1354.9	1350.2	1356.4	1371.2	1375.9	1381.3	1368.9
42.5°	1421.8	1428.8	1473.9	1466.9	1445.9	1429.5	1428.0	1483.2	1470.0	1456.0	1449.0
45°	1546.2	1540.0	1563.3	1564.1	1536.9	1501.1	1508.9	1559.4	1582.0	1550.9	1562.5
47.5°	1645.0	1648.1	1664.4	1697.9	1634.9	1597.5	1626.3	1708.0	1701.0	1689.3	1700.2
50°	1777.2	1791.2	1842.5	1830.9	1774.9	1729.0	1792.0	1869.0	1877.5	1834.8	1827.0
52.5°	1960.0	1981.8	2009.8	2019.1	1965.4	1949.1	1953.0	2048.6	2027.6	1986.4	1960.0
55°	2120.2	2130.3	2181.6	2258.6	2254.8	2176.2	2221.3	2257.1	2171.5	2086.8	2093.8
57.5°	2188.6	2193.3	2336.4	2490.4	2582.2	2600.1	2548.7	2428.2	2224.4	2061.1	2051.0
60°	2018.3	2062.6	2235.3	2583.0	3002.2	3209.1	2867.6	2447.6	2100.8	1902.4	1887.6
62.5°	1613.1	1615.4	1872.1	2399.4	3263.5	3805.6	2989.7	2264.9	1771.0	1546.2	1487.1
64°	1148.8	1170.5	1465.3	2124.1	3209.1	4048.3	2975.0	2026.1	1459.9	1141.0	1099.8
65°	824.4	854.8	1139.4	1844.1	3081.5	4019.5	2930.6	1820.8	1180.7	871.1	829.1
67.5°	303.3	315.8	447.2	922.4	2212.8	3425.3	2322.4	1001.0	518.8	369.4	332.1
70°	140.8	141.6	165.7	304.9	967.5	2290.5	1108.3	375.7	195.2	154.8	143.9
72.5°	103.4	105.8	115.9	140.8	284.7	969.9	364.0	154.0	114.3	101.1	98.8
75°	84.0	85.6	88.7	101.9	131.4	259.8	147.8	106.6	91.0	81.7	78.6
77.5°	64.6	64.6	71.6	77.8	87.1	121.3	98.0	84.8	73.9	64.6	62.2
80°	46.7	47.4	56.0	60.7	59.1	80.1	70.8	70.0	60.7	50.6	46.7
82.5°	27.2	29.6	40.4	43.6	42.0	47.4	51.3	54.4	47.4	35.0	31.9
85°	15.6	16.3	23.3	24.1	24.1	22.6	29.6	32.7	31.9	21.8	19.4
87.5°	4.7	4.7	6.2	6.2	7.0	7.8	11.7	14.0	15.6	10.9	10.1
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°	136°	145°	155°	165°	175°	180°
0°	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1	794.1
2.5°	806.5	794.9	795.7	798.8	788.7	792.5	804.2	795.7	793.3	788.7	786.3
5°	802.7	815.1	810.4	812.0	809.7	798.8	797.2	804.2	808.1	801.1	815.1
7.5°	829.9	824.4	818.2	820.5	815.1	824.4	830.7	816.7	823.7	819.8	812.0
10°	845.4	835.3	840.0	838.4	834.5	843.9	837.7	836.1	829.9	821.3	833.8
12.5°	850.9	862.5	870.3	857.1	859.4	854.8	850.9	850.9	843.9	841.5	843.9
15°	875.0	885.1	882.0	892.1	878.9	883.5	888.2	876.5	882.8	865.7	878.9
17.5°	919.3	910.8	921.7	908.4	913.1	922.4	907.7	907.7	912.3	903.0	891.3
20°	947.3	943.4	939.5	940.3	932.5	941.1	936.4	934.1	927.1	930.2	936.4
22.5°	973.8	968.3	969.9	972.2	977.7	973.8	971.4	973.8	956.7	972.2	950.4
25°	1006.4	1021.2	1016.5	1026.7	1011.1	1021.2	1020.4	1005.7	1015.0	1008.8	1004.1
27.5°	1060.9	1053.1	1060.1	1047.7	1058.5	1059.3	1050.0	1074.9	1064.0	1062.4	1059.3
30°	1130.9	1125.4	1120.8	1113.8	1122.3	1115.3	1123.1	1125.4	1115.3	1107.5	1092.8
32.5°	1170.5	1185.3	1190.8	1173.7	1174.4	1178.3	1171.3	1164.3	1170.5	1172.9	1170.5
35°	1226.5	1240.5	1243.7	1230.4	1223.4	1242.9	1228.9	1252.2	1232.0	1232.8	1211.8
37.5°	1291.9	1295.8	1322.2	1307.4	1301.2	1291.9	1317.5	1314.4	1319.1	1281.8	1300.4
40°	1365.8	1379.8	1394.5	1357.2	1356.4	1365.0	1363.4	1381.3	1372.8	1367.3	1354.1
42.5°	1446.6	1476.2	1478.5	1453.6	1438.1	1436.5	1444.3	1484.0	1484.8	1449.0	1433.4
45°	1554.0	1586.6	1578.1	1529.9	1512.8	1510.4	1548.5	1565.6	1580.4	1566.4	1553.2
47.5°	1687.8	1709.5	1703.3	1659.0	1603.8	1619.3	1656.6	1710.3	1694.8	1676.1	1660.5
50°	1830.9	1856.5	1843.3	1799.0	1746.1	1746.1	1792.0	1860.4	1855.8	1819.2	1805.2
52.5°	1989.5	2026.9	2057.2	1994.2	1949.9	1956.9	2029.2	2054.1	2042.4	2016.8	2005.1
55°	2107.8	2179.3	2241.5	2244.6	2247.0	2246.2	2264.9	2289.8	2206.5	2165.3	2123.3
57.5°	2079.0	2214.3	2427.4	2572.1	2614.9	2637.4	2631.2	2516.1	2319.3	2184.0	2198.0
60°	1873.6	2094.5	2438.3	2902.6	3213.7	3182.6	3069.1	2614.1	2257.1	2028.4	1999.6
62.5°	1494.9	1760.9	2255.5	2996.0	3853.1	3843.7	3249.5	2387.8	1880.6	1591.3	1573.4
64°	1126.2	1406.2	2012.1	2971.9	4077.1	4086.4	3203.6	2109.3	1471.5	1126.2	1099.0
65°	861.8	1121.5	1773.3	2922.1	4028.8	4034.3	3076.1	1821.5	1118.4	799.5	770.0
67.5°	343.0	477.6	962.1	2215.9	3459.5	3444.7	2194.9	881.2	427.8	278.4	273.0
70°	146.2	182.0	337.6	1050.0	2316.2	2273.4	945.0	286.2	158.7	133.0	132.2
72.5°	100.3	111.2	144.7	324.3	962.9	940.3	269.1	133.0	108.1	99.6	99.6
75°	80.9	88.7	105.0	136.1	255.1	245.8	126.8	98.0	86.3	80.1	79.3
77.5°	63.0	70.8	82.4	94.1	116.7	115.9	84.8	73.9	66.9	62.2	60.7
80°	49.8	57.6	65.3	66.9	76.2	74.7	57.6	58.3	54.4	45.1	44.3
82.5°	34.2	46.7	52.1	47.4	45.1	45.1	41.2	41.2	38.1	28.0	25.7
85°	21.0	31.1	32.7	28.0	21.0	21.0	22.6	21.8	20.2	14.8	14.0
87.5°	10.9	14.8	13.2	10.9	7.0	7.0	6.2	4.7	4.7	3.9	3.9
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)