

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: P481115

Luminaire Tested: **IFLD-S-SA2A-722-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481115
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-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

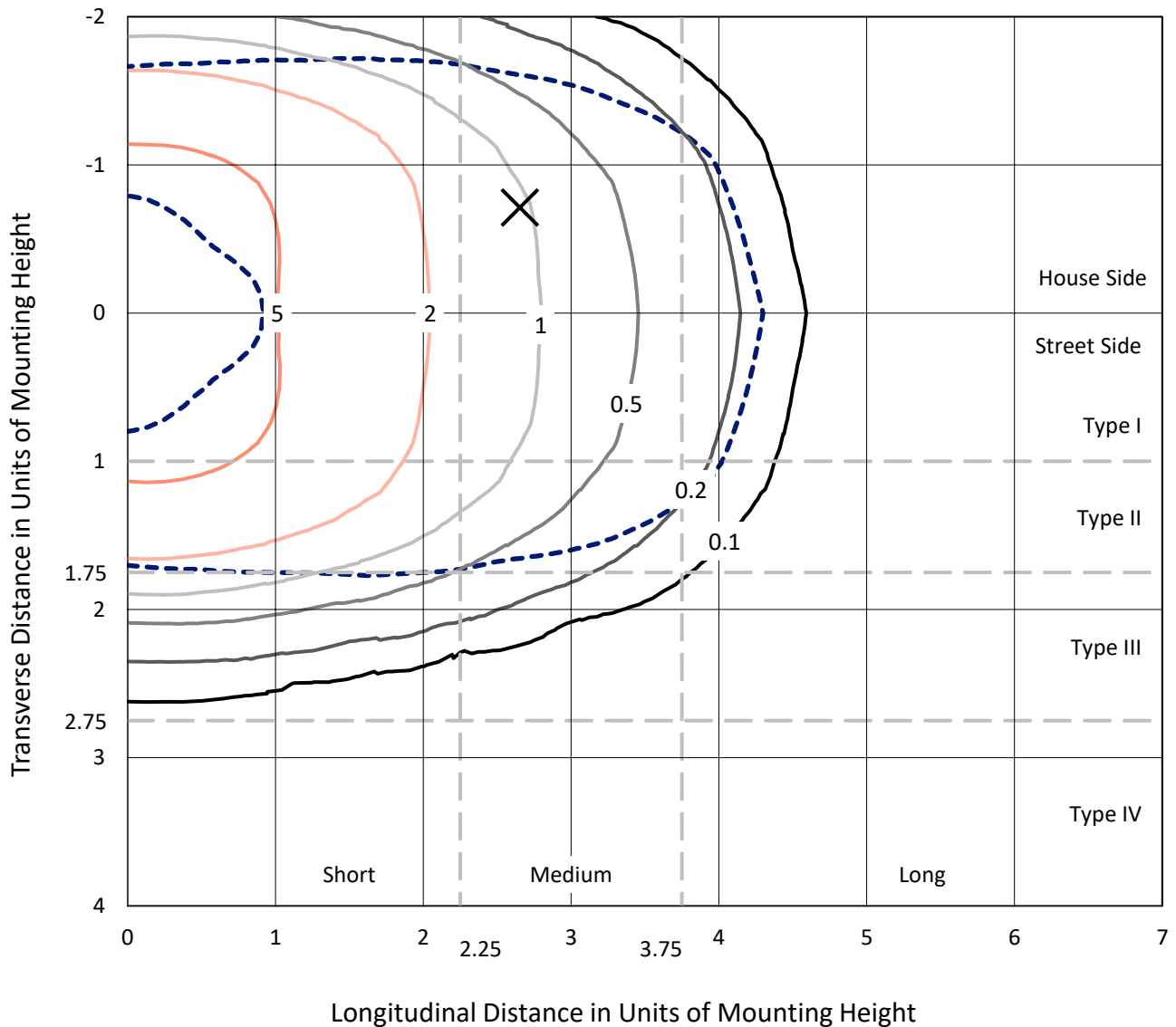
Lumens per Lamp: N/A
Luminaire Lumens: 7004.7 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

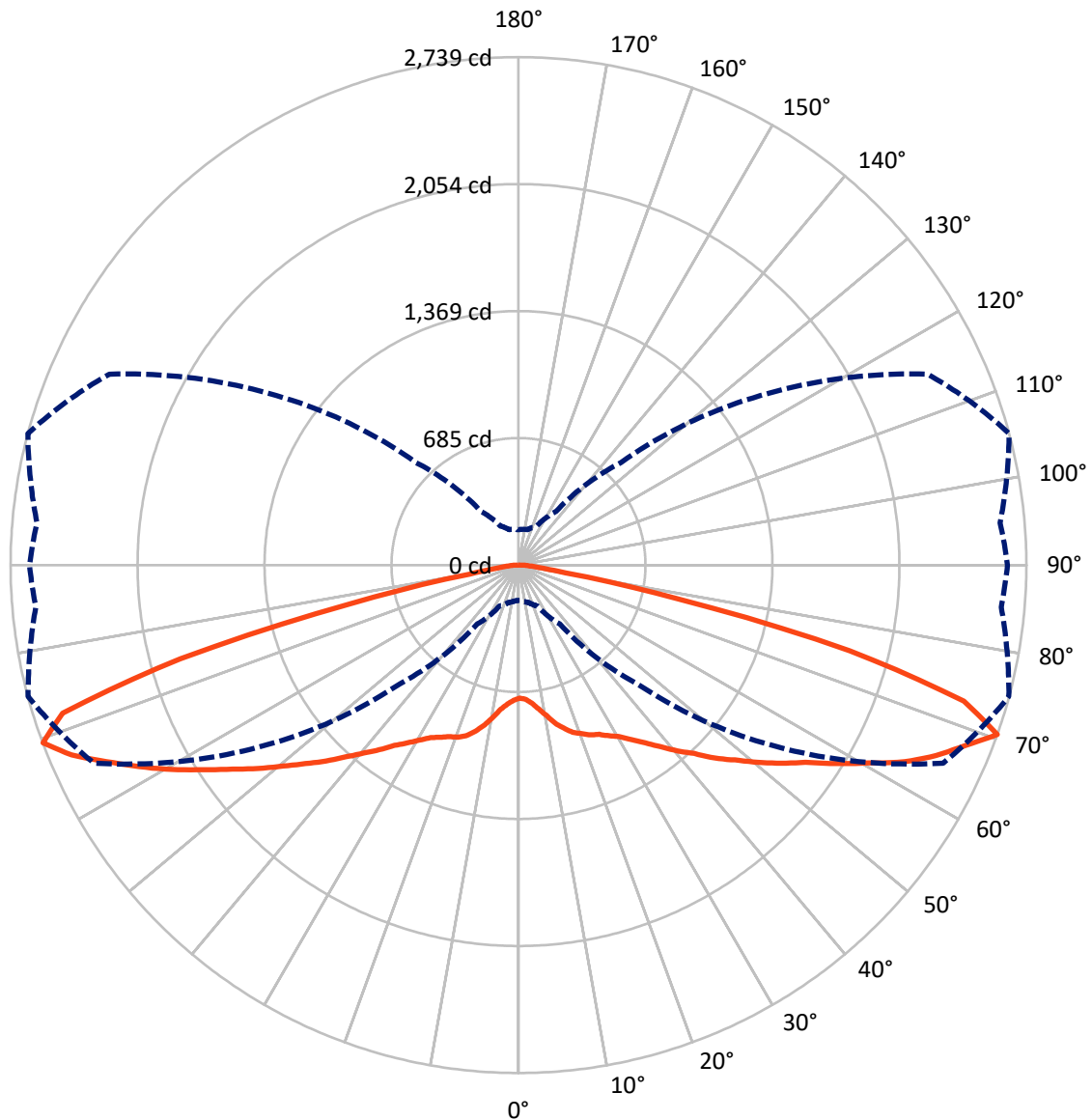
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 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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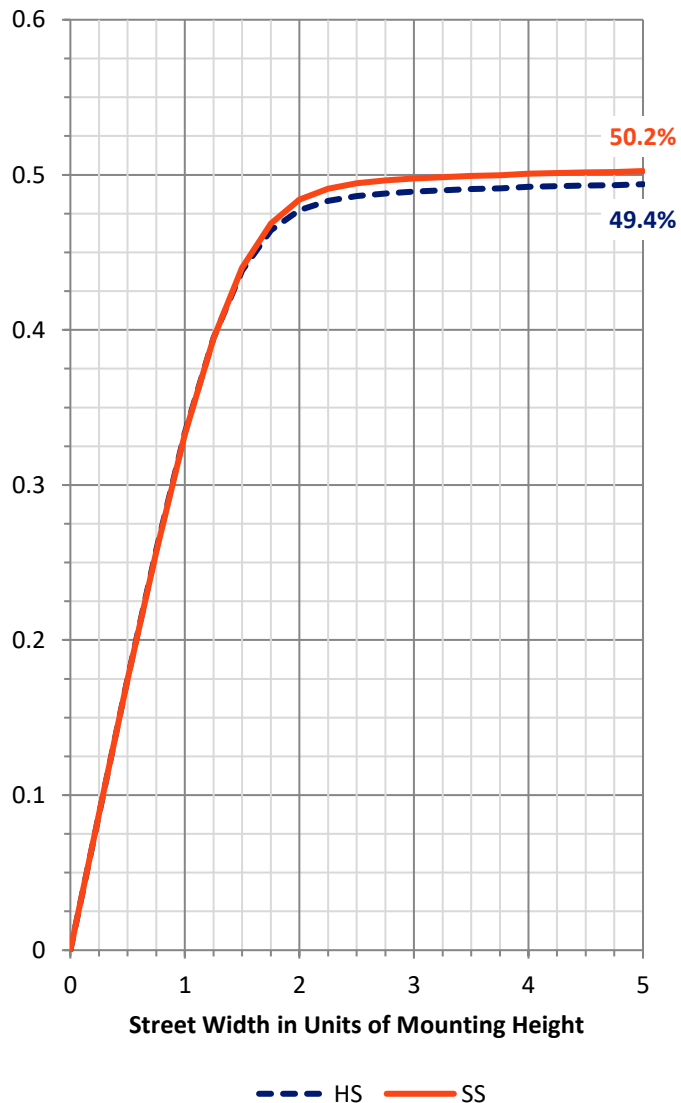
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3477.4	0.0	3477.4
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	3527.3	0.0	3527.3
	% Fixture	50.4	0.0	50.4
Total	Lumens	7004.7	0.0	7004.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	1.0
10°-20°	243.1	3.5
20°-30°	470.7	6.7
30°-40°	796.1	11.4
40°-50°	1270.1	18.1
50°-60°	1738.5	24.8
60°-70°	1638.6	23.4
70°-80°	721.9	10.3
80°-90°	54.3	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°	7004.7	100.0
0°-180°	7004.7	100.0

Coefficient of Utilization



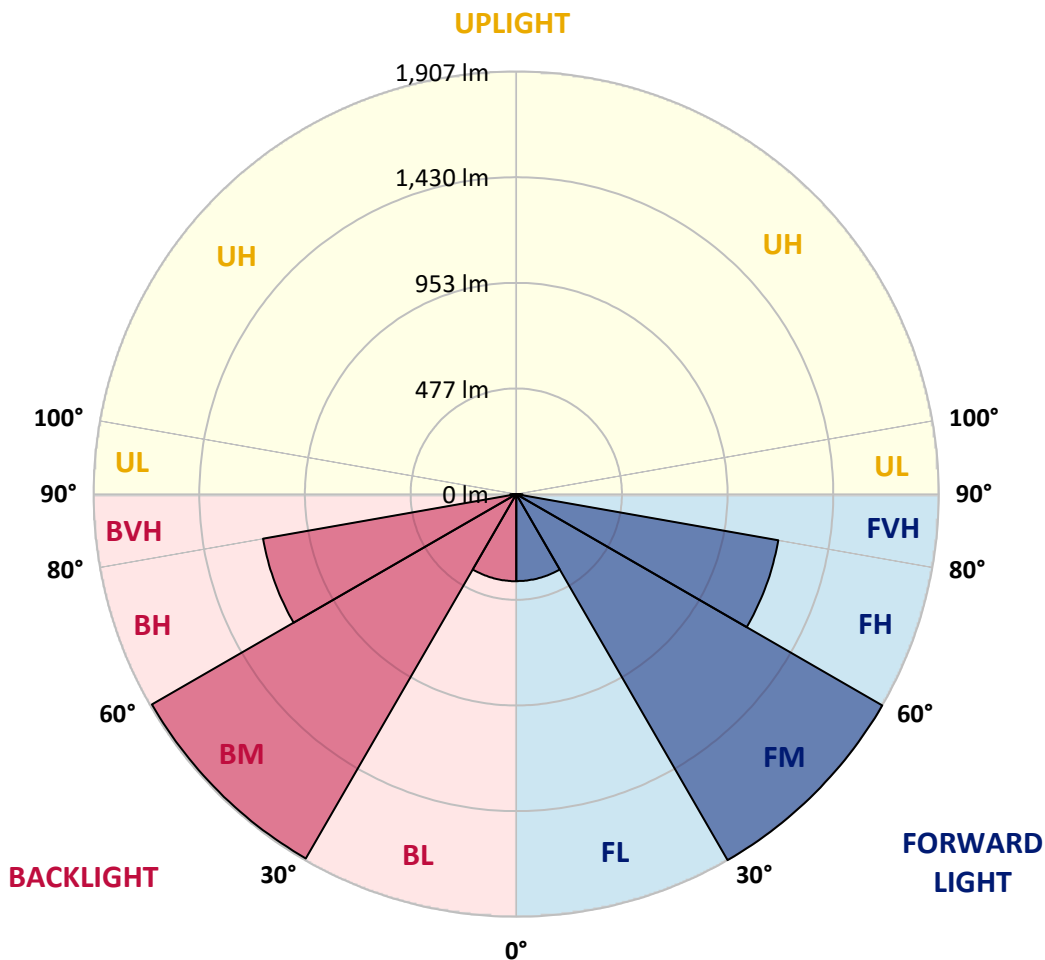
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	392.4	5.6			
FM (30°-60°)	1906.6	27.2			
FH (60°-80°)	1200.5	17.1			G1/1800
FVH (80°-90°)	27.7	0.4			G1/100
BL (0°-30°)	392.8	5.6	B1/500		
BM (30°-60°)	1898.1	27.1	B2/2500		
BH (60°-80°)	1160.0	16.6	B3/2500		G3/2500
BVH (80°-90°)	26.6	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°	717.3	717.3	717.3	717.3	717.3	717.3	717.3	717.3	717.3	717.3	717.3
2.5°	712.7	712.7	712.0	715.8	719.5	721.0	724.1	724.8	729.3	725.6	733.1
5°	710.5	709.7	715.8	724.8	724.8	734.6	740.7	749.0	751.2	755.8	757.3
7.5°	726.3	724.8	721.8	731.6	739.9	755.0	763.3	777.7	783.0	789.0	795.8
10°	736.1	736.1	733.1	750.5	758.0	778.4	796.5	810.9	831.3	838.1	838.8
12.5°	737.7	739.9	749.0	771.6	792.8	819.2	832.8	860.0	880.4	893.2	897.7
15°	760.3	755.8	765.6	796.5	827.5	850.9	875.1	894.7	924.1	940.8	951.3
17.5°	780.7	776.2	794.3	831.3	863.0	899.2	920.4	941.5	962.7	977.8	978.5
20°	813.2	816.9	832.8	872.8	914.3	946.0	970.2	974.0	984.5	1006.4	1002.7
22.5°	853.2	850.2	883.4	927.2	972.5	998.9	1012.5	1002.7	997.4	1020.8	1026.1
25°	893.2	902.2	932.5	973.2	1027.6	1063.1	1066.8	1039.7	1020.0	1028.3	1026.1
27.5°	954.3	955.9	987.6	1035.9	1091.0	1122.0	1119.7	1081.2	1043.4	1044.2	1045.7
30°	1032.9	1025.3	1060.0	1103.8	1158.2	1186.1	1189.9	1134.8	1084.2	1069.1	1072.9
32.5°	1108.4	1117.4	1147.6	1197.5	1237.5	1253.3	1245.0	1196.0	1130.3	1109.9	1112.1
35°	1205.0	1203.5	1245.0	1287.3	1317.5	1320.5	1313.7	1242.0	1180.1	1153.7	1143.1
37.5°	1308.5	1322.0	1349.2	1384.0	1415.7	1417.2	1380.2	1322.8	1246.5	1202.7	1215.6
40°	1424.0	1439.1	1458.7	1509.3	1532.7	1508.5	1470.8	1393.0	1313.7	1275.2	1281.3
42.5°	1525.9	1532.7	1572.7	1632.4	1643.7	1633.1	1577.2	1482.9	1390.7	1348.5	1351.5
45°	1619.5	1628.6	1680.7	1734.3	1760.7	1742.6	1677.7	1587.8	1480.6	1444.4	1430.0
47.5°	1705.6	1723.7	1774.3	1829.4	1870.2	1871.7	1791.7	1682.9	1569.7	1522.1	1521.4
50°	1763.7	1790.2	1840.0	1902.7	1962.3	1985.7	1905.7	1788.6	1667.1	1616.5	1611.2
52.5°	1795.4	1822.6	1872.5	1969.8	2036.3	2072.5	2034.8	1887.6	1781.1	1728.2	1719.9
55°	1756.9	1775.1	1856.6	1993.3	2095.9	2155.6	2130.7	2024.2	1894.3	1851.3	1858.9
57.5°	1593.1	1630.8	1731.3	1901.9	2094.4	2240.9	2238.6	2153.3	2025.0	1984.2	1985.7
60°	1311.5	1343.2	1467.0	1705.6	2009.9	2275.6	2355.7	2278.7	2171.4	2123.9	2122.4
62.5°	925.7	965.7	1109.1	1369.6	1760.7	2227.3	2490.1	2436.5	2314.9	2280.2	2293.0
65°	517.9	542.1	675.0	910.6	1341.7	1961.5	2514.2	2600.3	2460.6	2407.8	2410.0
67.5°	277.1	286.2	348.1	477.9	820.7	1512.3	2270.3	2694.7	2618.4	2527.1	2512.7
70°	190.3	193.3	209.1	244.6	388.1	904.5	1712.4	2526.3	2736.9	2612.4	2636.5
72.5°	160.8	159.3	163.1	166.9	203.1	404.7	1004.9	1944.2	2583.7	2536.9	2527.8
75°	139.7	138.9	140.4	136.7	141.2	178.2	444.7	1211.8	1891.3	2111.0	2145.0
77.5°	115.5	116.3	117.0	113.3	111.7	117.8	178.9	532.3	930.9	1027.6	1108.4
80°	87.6	89.1	95.1	91.4	85.3	86.1	105.7	178.2	267.3	242.4	249.9
82.5°	59.6	60.4	73.2	68.7	64.2	58.1	68.0	92.1	104.2	79.3	69.5
85°	42.3	41.5	47.6	43.8	40.8	29.4	40.8	52.1	62.7	39.3	35.5
87.5°	9.8	9.8	19.6	15.9	15.1	12.1	15.9	20.4	27.2	17.4	15.9
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°	717.3	717.3	717.3	717.3	717.3	717.3	717.3	717.3	717.3	717.3
2.5°	730.9	724.1	724.1	722.6	716.5	715.0	709.7	711.2	707.5	703.7
5°	756.5	747.5	747.5	734.6	722.6	721.0	715.0	715.0	709.0	710.5
7.5°	792.0	783.7	770.1	758.8	742.2	735.4	724.1	722.6	721.0	718.0
10°	834.3	823.7	810.1	786.7	773.1	760.3	749.0	733.1	729.3	730.1
12.5°	891.7	875.1	845.6	825.2	807.9	791.3	774.7	751.2	746.0	748.2
15°	932.5	911.3	881.9	874.3	850.9	830.5	803.3	776.9	767.9	765.6
17.5°	965.7	948.3	930.9	919.6	900.7	875.8	838.1	807.9	787.5	785.2
20°	992.9	970.2	966.4	973.2	949.8	933.2	887.1	850.2	823.0	811.6
22.5°	1009.5	995.1	1005.7	1011.7	1010.2	982.3	934.7	891.7	857.7	847.1
25°	1027.6	1011.0	1048.7	1069.1	1074.4	1028.3	991.3	934.7	901.5	894.7
27.5°	1036.6	1042.7	1086.5	1129.5	1125.7	1090.2	1040.4	989.8	963.4	951.3
30°	1063.1	1072.9	1139.3	1187.6	1188.4	1153.7	1115.9	1058.5	1029.1	1023.8
32.5°	1110.6	1122.7	1193.7	1245.0	1254.1	1227.7	1189.9	1154.4	1124.2	1112.1
35°	1146.9	1177.8	1257.9	1304.7	1328.8	1313.0	1291.8	1254.8	1223.1	1212.6
37.5°	1199.0	1242.0	1319.0	1382.4	1409.6	1408.1	1392.3	1352.2	1325.8	1316.8
40°	1273.7	1316.8	1387.0	1470.8	1521.4	1519.1	1510.0	1479.1	1439.8	1435.3
42.5°	1353.0	1388.5	1479.8	1575.7	1648.2	1640.7	1616.5	1580.3	1553.1	1547.0
45°	1430.0	1485.1	1569.7	1692.8	1747.1	1766.0	1737.3	1675.4	1644.4	1640.7
47.5°	1526.7	1570.4	1676.1	1786.4	1867.2	1870.2	1821.1	1763.7	1707.1	1719.2
50°	1612.7	1670.9	1778.1	1898.9	1995.5	1960.8	1898.1	1826.4	1785.6	1769.8
52.5°	1704.8	1775.8	1900.4	2023.5	2077.1	2042.3	1940.4	1860.4	1798.5	1791.7
55°	1839.2	1876.2	2039.3	2133.7	2151.1	2077.8	1927.6	1814.3	1734.3	1714.7
57.5°	1975.9	2018.9	2161.6	2243.2	2225.0	2058.2	1844.5	1669.4	1564.4	1536.5
60°	2114.1	2166.9	2287.0	2361.7	2268.1	1923.0	1609.7	1384.0	1261.6	1236.7
62.5°	2268.1	2336.8	2444.0	2470.4	2140.5	1655.8	1277.5	998.9	875.1	833.5
65°	2404.7	2475.0	2607.1	2447.8	1869.4	1235.2	826.0	570.8	479.4	446.2
67.5°	2517.2	2596.5	2661.4	2166.2	1368.9	723.3	430.4	300.5	266.5	254.4
70°	2606.3	2738.5	2434.9	1592.3	782.2	352.6	232.5	197.8	193.3	190.3
72.5°	2528.6	2511.2	1818.1	918.9	342.8	194.0	168.4	163.1	162.3	163.1
75°	2068.0	1844.5	1087.2	399.4	172.1	140.4	139.7	137.4	141.2	141.2
77.5°	1003.4	877.3	454.5	171.4	113.3	110.2	114.0	114.0	114.0	114.0
80°	232.5	257.5	162.3	104.2	82.3	82.3	90.6	91.4	87.6	86.1
82.5°	79.3	105.7	89.1	65.7	54.4	61.2	68.7	70.2	58.1	58.9
85°	39.3	61.9	48.3	37.8	27.9	37.8	44.5	46.8	40.0	38.5
87.5°	18.1	27.2	18.1	12.8	9.8	13.6	12.8	10.6	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)