

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: P481271

Luminaire Tested: **IFLD-S-SA2A-740-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481271
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-740-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

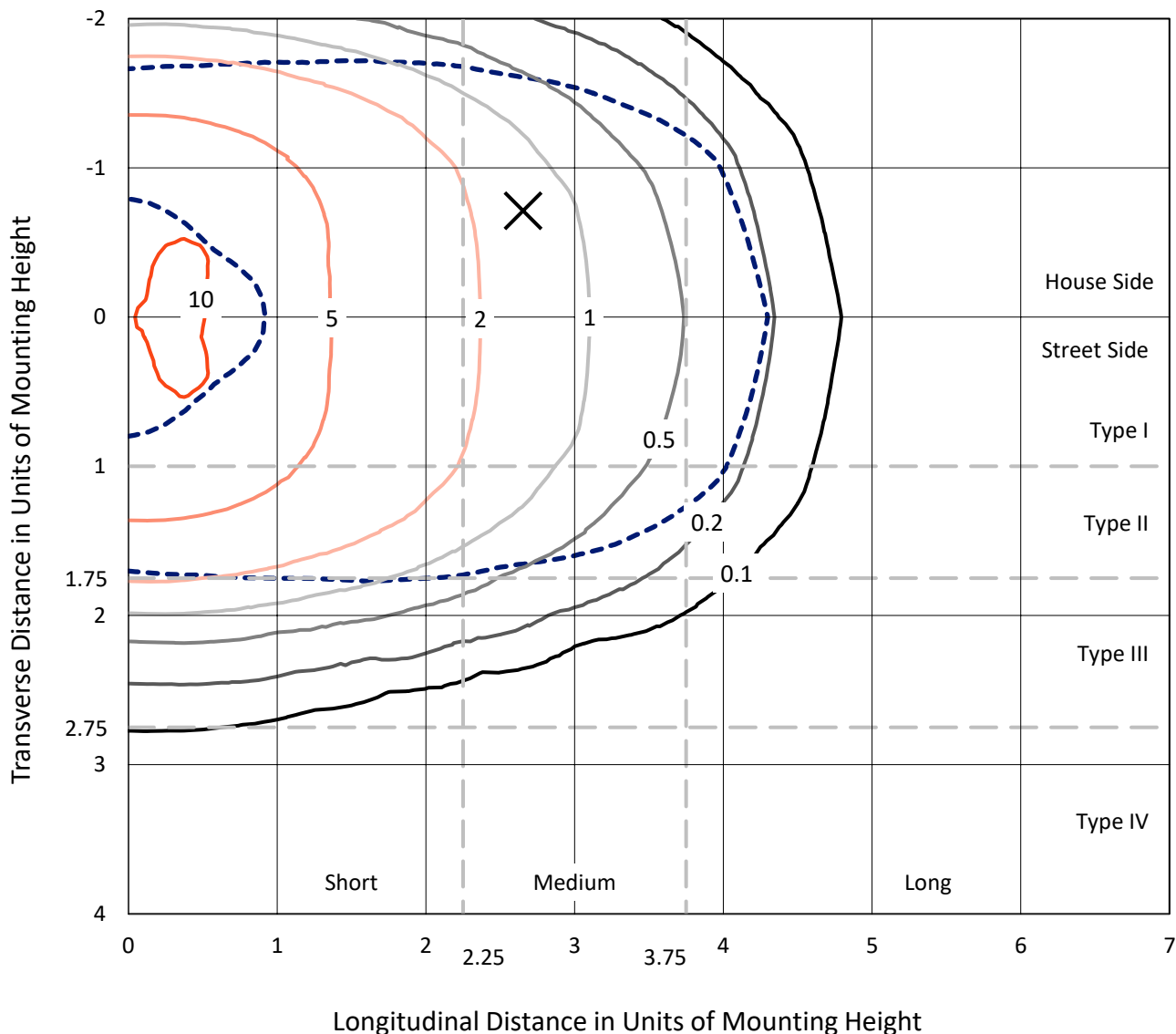
Lumens per Lamp: N/A
Luminaire Lumens: 9509.4 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

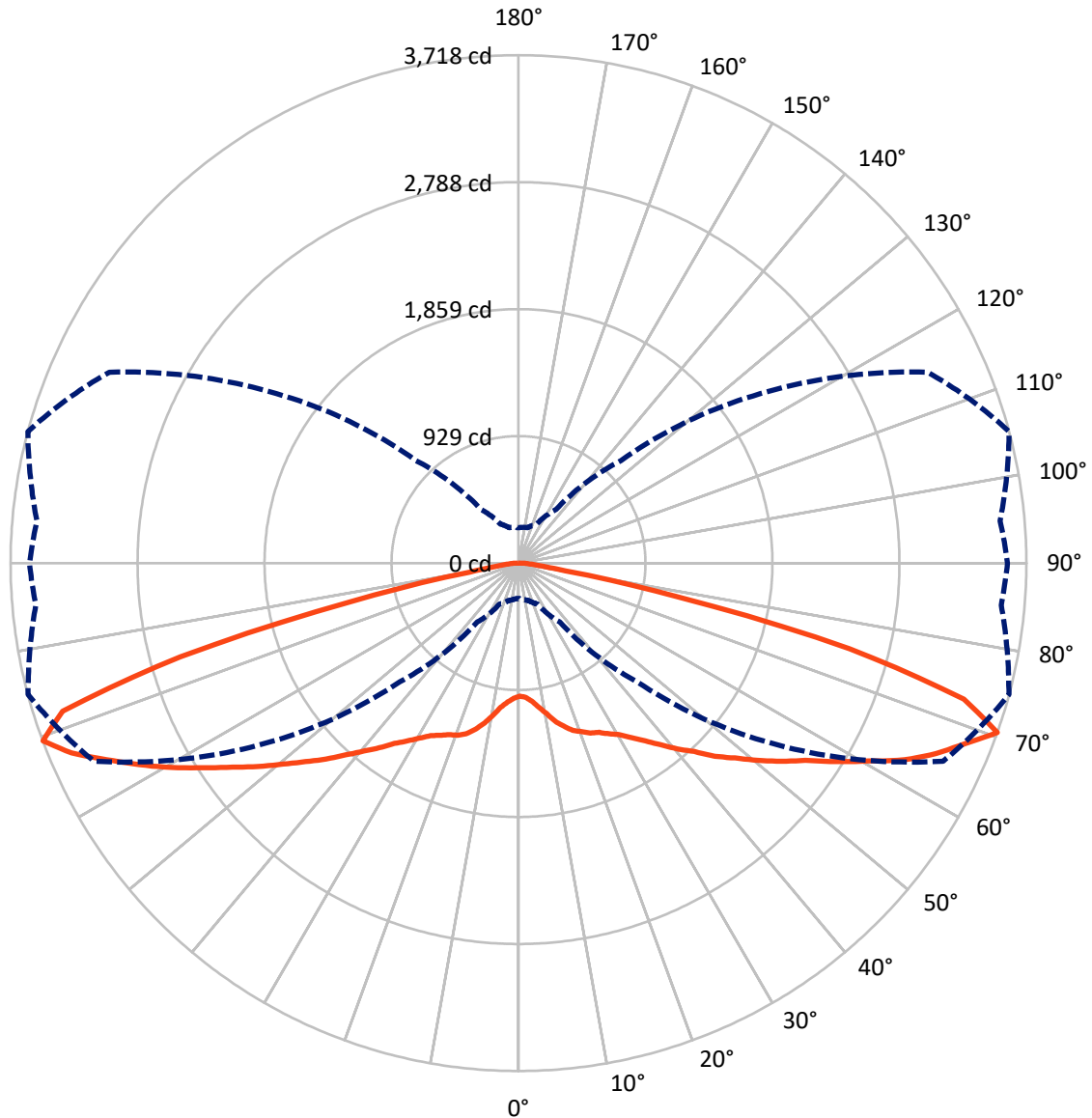
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.5 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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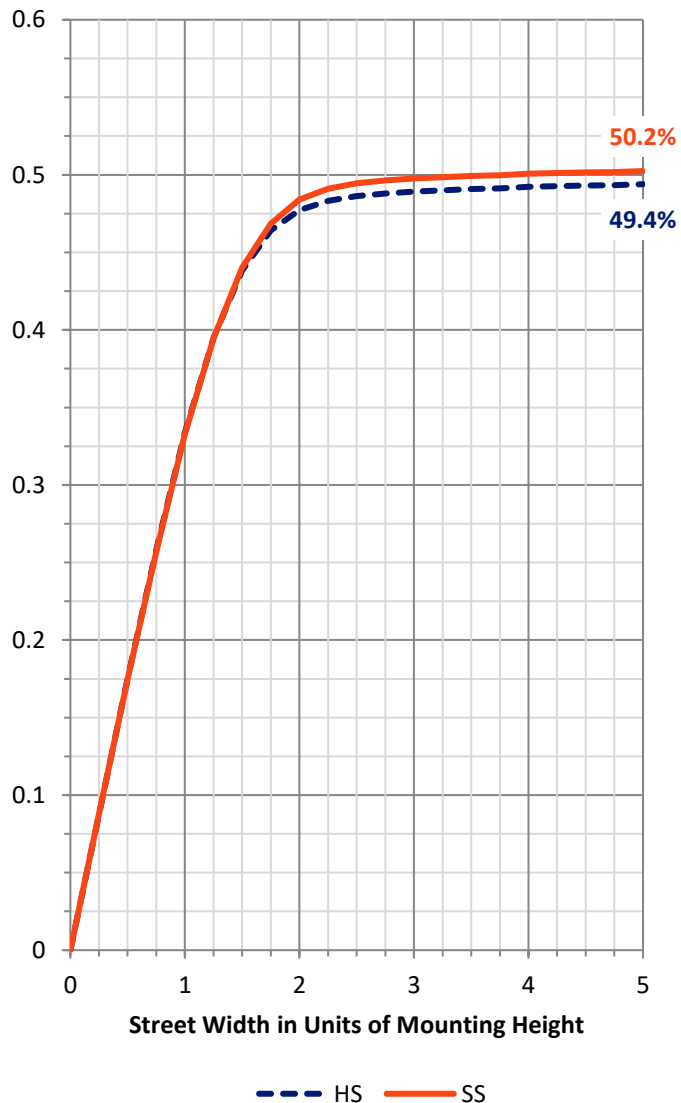
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4720.9	0.0	4720.9
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	4788.5	0.0	4788.5
	% Fixture	50.4	0.0	50.4
Total	Lumens	9509.4	0.0	9509.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	1.0
10°-20°	330.0	3.5
20°-30°	639.0	6.7
30°-40°	1080.8	11.4
40°-50°	1724.2	18.1
50°-60°	2360.1	24.8
60°-70°	2224.6	23.4
70°-80°	980.0	10.3
80°-90°	73.7	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°	9509.4	100.0
0°-180°	9509.4	100.0

Coefficient of Utilization



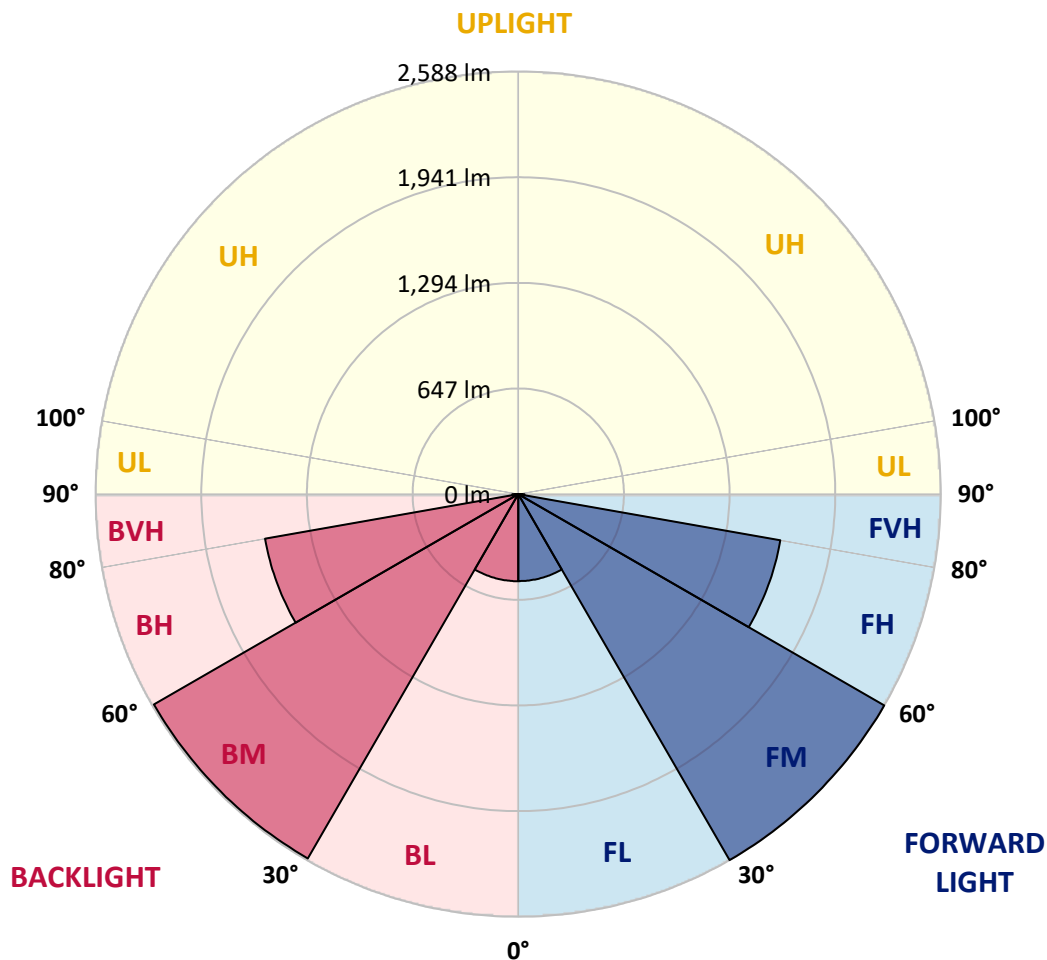
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	532.7	5.6			
FM (30°-60°)	2588.4	27.2			
FH (60°-80°)	1629.8	17.1			G1/1800
FVH (80°-90°)	37.7	0.4			G1/100
BL (0°-30°)	533.3	5.6	B2/1000		
BM (30°-60°)	2576.8	27.1	B3/5000		
BH (60°-80°)	1574.7	16.6	B3/2500		G3/2500
BVH (80°-90°)	36.1	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°	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8
2.5°	967.6	967.6	966.6	971.7	976.8	978.9	983.0	984.0	990.2	985.0	995.3
5°	964.5	963.5	971.7	984.0	984.0	997.3	1005.5	1016.8	1019.9	1026.0	1028.1
7.5°	986.1	984.0	979.9	993.2	1004.5	1025.0	1036.3	1055.8	1062.9	1071.1	1080.4
10°	999.4	999.4	995.3	1018.9	1029.1	1056.8	1081.4	1100.9	1128.5	1137.8	1138.8
12.5°	1001.4	1004.5	1016.8	1047.6	1076.3	1112.1	1130.6	1167.5	1195.2	1212.6	1218.7
15°	1032.2	1026.0	1039.4	1081.4	1123.4	1155.2	1188.0	1214.6	1254.6	1277.2	1291.5
17.5°	1059.9	1053.7	1078.3	1128.5	1171.6	1220.8	1249.5	1278.2	1306.9	1327.4	1328.4
20°	1103.9	1109.1	1130.6	1184.9	1241.3	1284.3	1317.1	1322.3	1336.6	1366.3	1361.2
22.5°	1158.3	1154.2	1199.3	1258.7	1320.2	1356.1	1374.5	1361.2	1354.0	1385.8	1393.0
25°	1212.6	1224.9	1265.9	1321.2	1395.0	1443.2	1448.3	1411.4	1384.8	1396.1	1393.0
27.5°	1295.6	1297.7	1340.7	1406.3	1481.1	1523.2	1520.1	1467.8	1416.6	1417.6	1419.6
30°	1402.2	1392.0	1439.1	1498.6	1572.4	1610.3	1615.4	1540.6	1471.9	1451.4	1456.5
32.5°	1504.7	1517.0	1558.0	1625.7	1680.0	1701.5	1690.2	1623.6	1534.4	1506.8	1509.8
35°	1635.9	1633.9	1690.2	1747.6	1788.6	1792.7	1783.5	1686.1	1602.1	1566.2	1551.9
37.5°	1776.3	1794.8	1831.7	1878.8	1921.9	1923.9	1873.7	1795.8	1692.3	1632.8	1650.3
40°	1933.2	1953.7	1980.3	2049.0	2080.8	2048.0	1996.7	1891.1	1783.5	1731.2	1739.4
42.5°	2071.5	2080.8	2135.1	2216.1	2231.4	2217.1	2141.2	2013.1	1888.1	1830.7	1834.8
45°	2198.6	2210.9	2281.7	2354.4	2390.3	2365.7	2277.6	2155.6	2010.0	1960.8	1941.4
47.5°	2315.5	2340.1	2408.8	2483.6	2538.9	2541.0	2432.3	2284.7	2131.0	2066.4	2065.4
50°	2394.4	2430.3	2497.9	2583.0	2664.0	2695.8	2587.1	2428.2	2263.2	2194.5	2187.4
52.5°	2437.5	2474.4	2542.0	2674.2	2764.4	2813.6	2762.4	2562.5	2418.0	2346.2	2335.0
55°	2385.2	2409.8	2520.5	2706.0	2845.4	2926.4	2892.6	2748.0	2571.7	2513.3	2523.6
57.5°	2162.8	2214.0	2350.3	2582.0	2843.4	3042.2	3039.1	2923.3	2749.1	2693.7	2695.8
60°	1780.4	1823.5	1991.6	2315.5	2728.6	3089.4	3198.0	3093.5	2947.9	2883.3	2881.3
62.5°	1256.7	1311.0	1505.7	1859.4	2390.3	3023.8	3380.5	3307.7	3142.7	3095.5	3112.9
65°	703.2	736.0	916.4	1236.2	1821.4	2663.0	3413.3	3530.1	3340.5	3268.7	3271.8
67.5°	376.2	388.5	472.5	648.8	1114.2	2053.1	3082.2	3658.3	3554.7	3430.7	3411.2
70°	258.3	262.4	283.9	332.1	526.9	1228.0	2324.7	3429.7	3715.7	3546.5	3579.3
72.5°	218.3	216.3	221.4	226.5	275.7	549.4	1364.3	2639.4	3507.6	3444.0	3431.7
75°	189.6	188.6	190.7	185.5	191.7	241.9	603.7	1645.1	2567.6	2865.9	2912.0
77.5°	156.8	157.9	158.9	153.8	151.7	159.9	242.9	722.6	1263.8	1395.0	1504.7
80°	118.9	121.0	129.2	124.0	115.8	116.9	143.5	241.9	362.9	329.0	339.3
82.5°	81.0	82.0	99.4	93.3	87.1	78.9	92.3	125.1	141.5	107.6	94.3
85°	57.4	56.4	64.6	59.5	55.4	40.0	55.4	70.7	85.1	53.3	48.2
87.5°	13.3	13.3	26.7	21.5	20.5	16.4	21.5	27.7	36.9	23.6	21.5
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°	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8
2.5°	992.2	983.0	983.0	980.9	972.7	970.7	963.5	965.6	960.4	955.3
5°	1027.1	1014.8	1014.8	997.3	980.9	978.9	970.7	970.7	962.5	964.5
7.5°	1075.2	1064.0	1045.5	1030.1	1007.6	998.4	983.0	980.9	978.9	974.8
10°	1132.6	1118.3	1099.8	1068.1	1049.6	1032.2	1016.8	995.3	990.2	991.2
12.5°	1210.5	1188.0	1148.0	1120.3	1096.8	1074.2	1051.7	1019.9	1012.7	1015.8
15°	1265.9	1237.2	1197.2	1187.0	1155.2	1127.5	1090.6	1054.7	1042.4	1039.4
17.5°	1311.0	1287.4	1263.8	1248.5	1222.8	1189.0	1137.8	1096.8	1069.1	1066.0
20°	1347.9	1317.1	1312.0	1321.2	1289.5	1266.9	1204.4	1154.2	1117.3	1101.9
22.5°	1370.4	1351.0	1365.3	1373.5	1371.5	1333.5	1269.0	1210.5	1164.4	1150.1
25°	1395.0	1372.5	1423.7	1451.4	1458.6	1396.1	1345.8	1269.0	1223.9	1214.6
27.5°	1407.3	1415.5	1475.0	1533.4	1528.3	1480.1	1412.5	1343.8	1307.9	1291.5
30°	1443.2	1456.5	1546.7	1612.3	1613.4	1566.2	1515.0	1437.1	1397.1	1389.9
32.5°	1507.8	1524.2	1620.5	1690.2	1702.5	1666.7	1615.4	1567.2	1526.2	1509.8
35°	1557.0	1599.0	1707.7	1771.2	1804.0	1782.5	1753.8	1703.6	1660.5	1646.2
37.5°	1627.7	1686.1	1790.7	1876.8	1913.7	1911.6	1890.1	1835.8	1799.9	1787.6
40°	1729.2	1787.6	1882.9	1996.7	2065.4	2062.3	2050.0	2008.0	1954.7	1948.5
42.5°	1836.8	1885.0	2009.0	2139.2	2237.6	2227.3	2194.5	2145.3	2108.4	2100.2
45°	1941.4	2016.2	2131.0	2298.1	2371.9	2397.5	2358.5	2274.5	2232.5	2227.3
47.5°	2072.6	2132.0	2275.5	2425.2	2534.8	2538.9	2472.3	2394.4	2317.5	2333.9
50°	2189.4	2268.3	2413.9	2577.9	2709.1	2661.9	2576.9	2479.5	2424.1	2402.6
52.5°	2314.5	2410.8	2579.9	2747.0	2819.8	2772.6	2634.3	2525.6	2441.6	2432.3
55°	2496.9	2547.1	2768.5	2896.7	2920.2	2820.8	2616.8	2463.1	2354.4	2327.8
57.5°	2682.4	2740.9	2934.6	3045.3	3020.7	2794.2	2504.1	2266.3	2123.8	2085.9
60°	2870.0	2941.8	3104.7	3206.2	3079.1	2610.7	2185.3	1878.8	1712.8	1679.0
62.5°	3079.1	3172.4	3317.9	3353.8	2905.9	2247.8	1734.3	1356.1	1188.0	1131.6
65°	3264.6	3360.0	3539.4	3323.1	2537.9	1676.9	1121.4	774.9	650.9	605.8
67.5°	3417.4	3525.0	3613.2	2940.7	1858.3	982.0	584.3	408.0	361.8	345.4
70°	3538.3	3717.7	3305.6	2161.7	1061.9	478.7	315.7	268.6	262.4	258.3
72.5°	3432.7	3409.2	2468.2	1247.4	465.4	263.4	228.6	221.4	220.4	221.4
75°	2807.5	2504.1	1476.0	542.2	233.7	190.7	189.6	186.6	191.7	191.7
77.5°	1362.2	1191.1	617.1	232.7	153.8	149.7	154.8	154.8	154.8	154.8
80°	315.7	349.5	220.4	141.5	111.7	111.7	123.0	124.0	118.9	116.9
82.5°	107.6	143.5	121.0	89.2	73.8	83.0	93.3	95.3	78.9	80.0
85°	53.3	84.1	65.6	51.3	37.9	51.3	60.5	63.6	54.3	52.3
87.5°	24.6	36.9	24.6	17.4	13.3	18.5	17.4	14.4	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)