

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: P479170

Luminaire Tested: **IFLD-S-SA3A-722-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479170
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-722-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

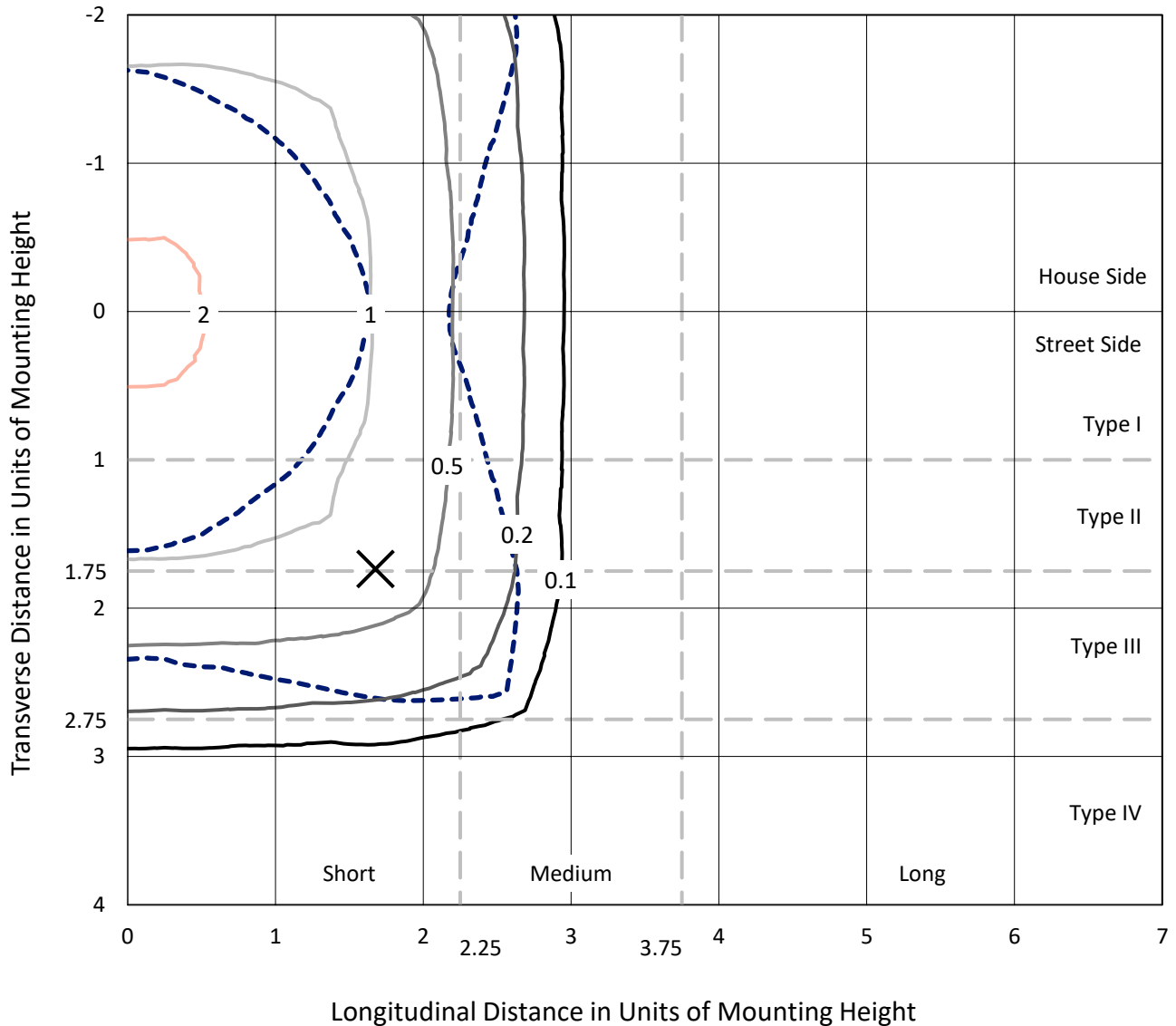
Lumens per Lamp: N/A
Luminaire Lumens: 10229.9 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 94.8
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

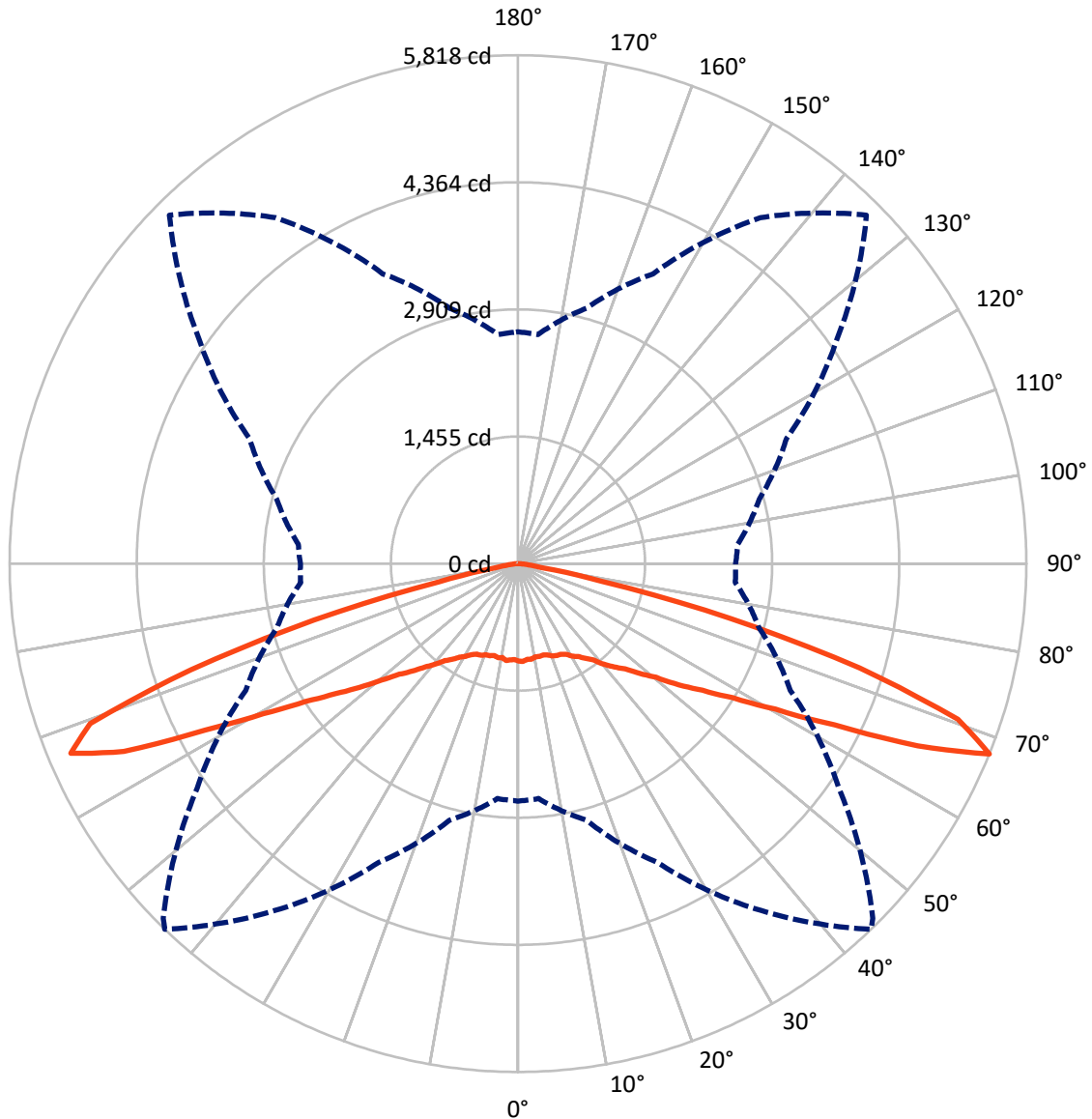
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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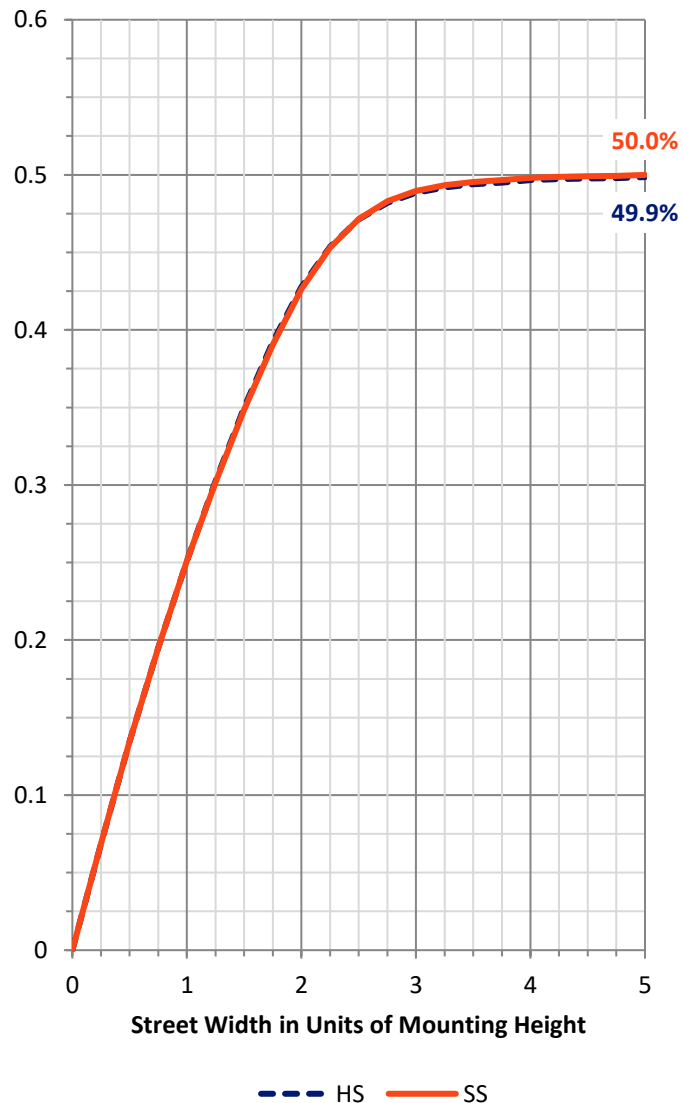
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5101.8	0.0	5101.8
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	5128.0	0.0	5128.0
	% Fixture	50.1	0.0	50.1
Total	Lumens	10229.9	0.0	10229.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	1.0
10°-20°	308.9	3.0
20°-30°	525.3	5.1
30°-40°	832.9	8.1
40°-50°	1358.2	13.3
50°-60°	2319.6	22.7
60°-70°	3528.1	34.5
70°-80°	1189.2	11.6
80°-90°	61.7	0.6
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°	10229.9	100.0
0°-180°	10229.9	100.0

Coefficient of Utilization



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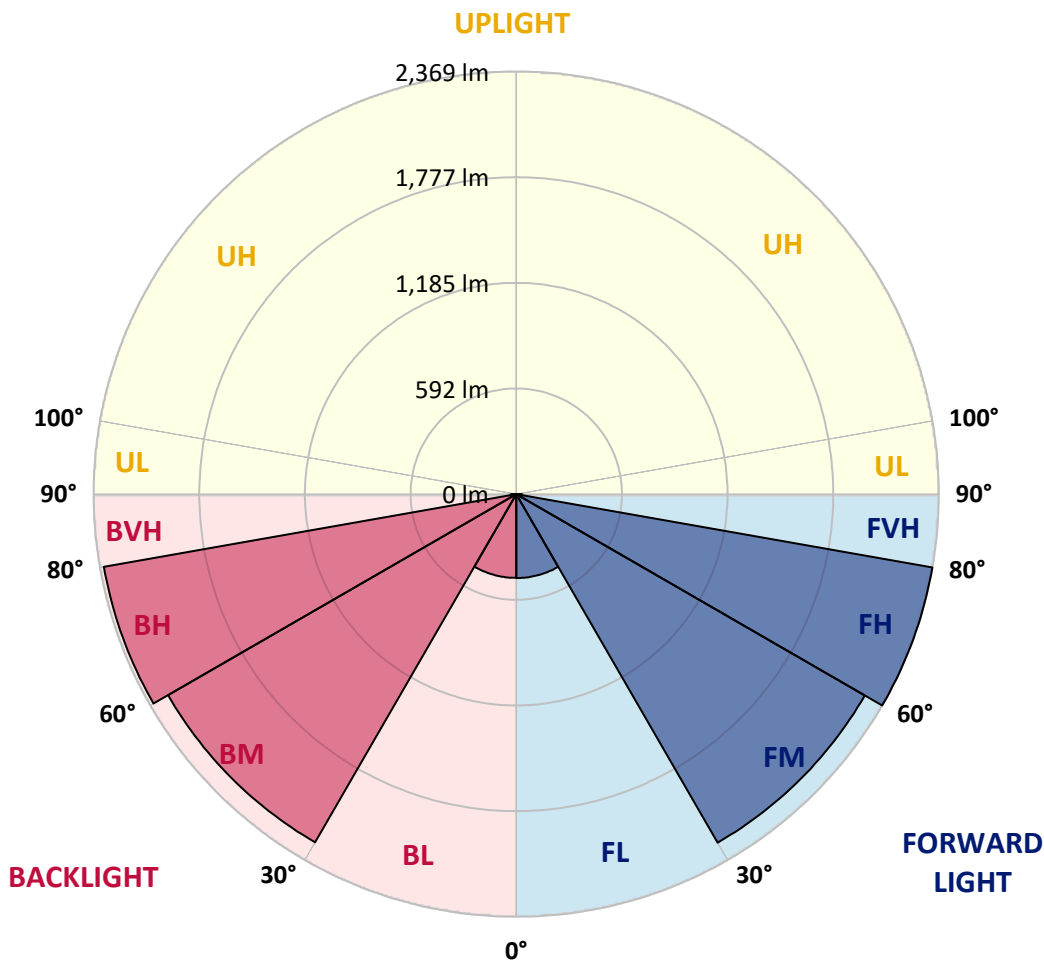
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	470.5	4.6			
FM (30°-60°)	2256.6	22.1			
FH (60°-80°)	2369.4	23.2			G2/5000
FVH (80°-90°)	31.6	0.3			G1/100
BL (0°-30°)	469.5	4.6	B1/500		
BM (30°-60°)	2254.2	22.0	B2/2500		
BH (60°-80°)	2348.0	23.0	B3/2500		G2/5000
BVH (80°-90°)	30.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1117.4	1117.4	1117.4	1117.4	1117.4	1117.4	1117.4	1117.4	1117.4	1117.4	1117.4
2.5°	1091.8	1104.6	1113.9	1112.8	1116.3	1119.8	1115.1	1122.1	1117.4	1125.6	1130.3
5°	1112.8	1109.3	1110.4	1103.4	1119.8	1101.1	1101.1	1110.4	1122.1	1108.1	1116.3
7.5°	1099.9	1097.6	1091.8	1102.3	1105.8	1105.8	1115.1	1097.6	1117.4	1122.1	1123.3
10°	1085.9	1073.1	1090.6	1101.1	1103.4	1084.7	1092.9	1097.6	1091.8	1097.6	1101.1
12.5°	1074.2	1081.2	1081.2	1081.2	1077.7	1090.6	1098.8	1097.6	1085.9	1096.4	1077.7
15°	1073.1	1069.6	1080.1	1089.4	1083.6	1085.9	1089.4	1099.9	1077.7	1082.4	1082.4
17.5°	1071.9	1076.6	1080.1	1078.9	1098.8	1098.8	1095.3	1088.2	1105.8	1096.4	1083.6
20°	1076.6	1073.1	1082.4	1085.9	1099.9	1127.9	1117.4	1111.6	1102.3	1090.6	1090.6
22.5°	1082.4	1080.1	1092.9	1108.1	1135.0	1142.0	1140.8	1133.8	1117.4	1103.4	1101.1
25°	1103.4	1082.4	1096.4	1125.6	1135.0	1149.0	1158.3	1149.0	1126.8	1130.3	1109.3
27.5°	1135.0	1131.5	1150.1	1170.0	1161.8	1174.7	1166.5	1173.5	1174.7	1157.1	1136.1
30°	1172.3	1161.8	1173.5	1212.0	1215.5	1229.5	1215.5	1196.8	1202.7	1187.5	1177.0
32.5°	1226.0	1222.5	1244.7	1270.4	1275.1	1268.1	1261.1	1271.6	1247.0	1235.4	1216.7
35°	1261.1	1276.2	1303.1	1322.9	1338.1	1331.1	1334.6	1324.1	1330.0	1305.4	1297.3
37.5°	1365.0	1359.1	1365.0	1398.8	1402.3	1398.8	1402.3	1414.0	1405.8	1384.8	1363.8
40°	1463.1	1453.7	1467.7	1506.3	1503.9	1515.6	1492.3	1505.1	1505.1	1465.4	1457.2
42.5°	1536.6	1568.2	1584.5	1616.0	1627.7	1617.2	1612.5	1614.9	1640.5	1593.8	1576.3
45°	1688.4	1687.3	1736.3	1753.8	1721.1	1718.8	1709.4	1737.5	1755.0	1728.1	1721.1
47.5°	1853.1	1861.2	1889.3	1896.3	1916.1	1879.9	1879.9	1883.4	1945.3	1882.2	1849.6
50°	2001.3	2011.9	2067.9	2122.8	2085.4	2046.9	2062.1	2080.7	2114.6	2055.1	2027.0
52.5°	2181.2	2238.4	2275.7	2304.9	2331.8	2304.9	2269.9	2290.9	2357.5	2278.1	2243.1
55°	2440.4	2485.9	2521.0	2574.7	2596.8	2560.7	2557.1	2554.8	2592.2	2508.1	2460.2
57.5°	2730.0	2711.3	2767.3	2850.2	2930.8	2895.8	2885.3	2887.6	2896.9	2777.8	2741.6
60°	3089.6	3110.6	3177.2	3249.6	3334.8	3383.8	3315.0	3275.3	3283.4	3121.1	3065.1
62.5°	3295.1	3341.8	3492.4	3741.1	3912.8	4065.7	4076.3	3818.2	3645.4	3330.1	3091.9
65°	3195.9	3188.8	3472.6	3932.6	4583.0	5027.9	4961.3	4335.5	3731.8	3230.9	2910.9
67.5°	2718.3	2699.6	3042.9	3772.7	4846.9	5818.4	5742.5	4481.4	3439.9	2858.4	2496.4
70°	1751.5	1746.8	2119.3	2875.9	4327.3	5342.0	5370.0	4070.4	2800.0	2093.6	1735.1
72.5°	636.4	674.9	890.9	1546.0	2939.0	4086.8	4104.3	3013.7	1610.2	968.0	713.4
75°	234.7	241.7	281.4	502.1	1339.3	2509.3	2574.7	1461.9	572.1	315.3	256.9
77.5°	135.4	136.6	150.6	186.8	397.0	979.7	1019.4	443.7	221.9	168.1	155.3
80°	92.2	91.1	106.3	121.4	158.8	277.9	295.4	185.7	140.1	116.8	98.1
82.5°	53.7	57.2	78.2	86.4	96.9	122.6	124.9	115.6	105.1	86.4	64.2
85°	32.7	26.9	43.2	47.9	56.0	54.9	54.9	63.1	67.7	60.7	36.2
87.5°	8.2	8.2	10.5	11.7	15.2	11.7	12.8	24.5	32.7	30.4	18.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1117.4	1117.4	1117.4	1117.4	1117.4	1117.4	1117.4	1117.4	1117.4	1117.4	1117.4
2.5°	1119.8	1116.3	1118.6	1131.5	1123.3	1098.8	1104.6	1117.4	1106.9	1101.1	1099.9
5°	1115.1	1122.1	1113.9	1116.3	1124.4	1104.6	1108.1	1124.4	1117.4	1119.8	1106.9
7.5°	1116.3	1119.8	1112.8	1102.3	1102.3	1118.6	1109.3	1111.6	1101.1	1118.6	1095.3
10°	1109.3	1099.9	1091.8	1097.6	1095.3	1090.6	1087.1	1094.1	1083.6	1098.8	1082.4
12.5°	1088.2	1090.6	1088.2	1085.9	1090.6	1102.3	1083.6	1085.9	1069.6	1071.9	1080.1
15°	1080.1	1087.1	1084.7	1097.6	1103.4	1085.9	1099.9	1085.9	1073.1	1066.1	1078.9
17.5°	1083.6	1094.1	1090.6	1099.9	1089.4	1102.3	1104.6	1098.8	1083.6	1077.7	1083.6
20°	1087.1	1083.6	1088.2	1104.6	1119.8	1106.9	1106.9	1103.4	1089.4	1081.2	1081.2
22.5°	1095.3	1089.4	1096.4	1109.3	1113.9	1133.8	1116.3	1108.1	1084.7	1063.7	1083.6
25°	1111.6	1115.1	1119.8	1115.1	1140.8	1138.5	1136.1	1130.3	1094.1	1095.3	1091.8
27.5°	1143.1	1123.3	1129.1	1157.1	1160.6	1170.0	1158.3	1168.8	1130.3	1131.5	1108.1
30°	1181.7	1160.6	1179.3	1203.8	1202.7	1220.2	1214.4	1216.7	1189.8	1174.7	1143.1
32.5°	1223.7	1221.4	1233.0	1248.2	1254.1	1263.4	1262.2	1262.2	1245.9	1206.2	1212.0
35°	1270.4	1286.7	1300.8	1317.1	1319.4	1331.1	1314.8	1317.1	1300.8	1271.6	1280.9
37.5°	1362.6	1361.5	1376.7	1396.5	1398.8	1389.5	1402.3	1396.5	1374.3	1354.5	1339.3
40°	1470.1	1446.7	1460.7	1507.4	1510.9	1494.6	1493.4	1492.3	1475.9	1432.7	1423.4
42.5°	1563.5	1593.8	1591.5	1606.7	1596.2	1588.0	1617.2	1600.8	1588.0	1542.5	1534.3
45°	1683.7	1693.1	1723.4	1772.5	1722.3	1722.3	1742.1	1729.3	1722.3	1688.4	1656.9
47.5°	1833.2	1841.4	1902.1	1905.6	1872.9	1850.7	1912.6	1914.9	1885.8	1860.1	1821.5
50°	2008.4	2011.9	2066.7	2122.8	2086.6	2044.6	2107.6	2132.1	2066.7	2031.7	1983.8
52.5°	2201.0	2190.5	2236.0	2341.1	2306.1	2293.3	2361.0	2366.8	2278.1	2223.2	2236.0
55°	2422.9	2408.9	2532.6	2603.9	2581.7	2558.3	2588.7	2602.7	2531.5	2441.6	2473.1
57.5°	2710.1	2717.1	2779.0	2849.1	2885.3	2891.1	2905.1	2891.1	2818.7	2727.6	2698.4
60°	2997.4	3018.4	3138.6	3270.6	3282.3	3385.0	3366.3	3296.3	3193.5	3063.9	3069.7
62.5°	3103.6	3086.1	3279.9	3602.2	3876.6	4064.6	3981.7	3733.0	3494.8	3258.9	3276.4
65°	2889.9	2933.1	3197.0	3701.4	4296.9	5040.7	4599.4	3911.6	3430.5	3125.8	3091.9
67.5°	2490.6	2523.3	2858.4	3390.8	4447.6	5640.9	4832.9	3659.4	3025.4	2630.7	2651.7
70°	1735.1	1751.5	2079.6	2777.8	4033.1	5323.3	4360.0	2810.5	2088.9	1665.1	1688.4
72.5°	698.3	738.0	954.0	1673.2	2977.5	4044.7	2935.5	1474.7	866.4	644.5	585.0
75°	258.1	259.2	304.8	575.7	1414.0	2542.0	1324.1	474.1	276.7	226.5	216.0
77.5°	149.5	148.3	158.8	207.8	409.8	992.5	376.0	185.7	150.6	135.4	129.6
80°	93.4	92.2	108.6	137.8	179.8	272.1	158.8	115.6	101.6	87.6	87.6
82.5°	59.6	60.7	85.2	101.6	109.8	120.3	92.2	81.7	75.9	50.2	49.0
85°	38.5	35.0	59.6	67.7	60.7	53.7	51.4	43.2	39.7	24.5	26.9
87.5°	17.5	18.7	30.4	33.9	22.2	12.8	12.8	9.3	9.3	5.8	5.8
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)