

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: P479167

Luminaire Tested: **IFLD-S-SA2C-722-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479167
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-722-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

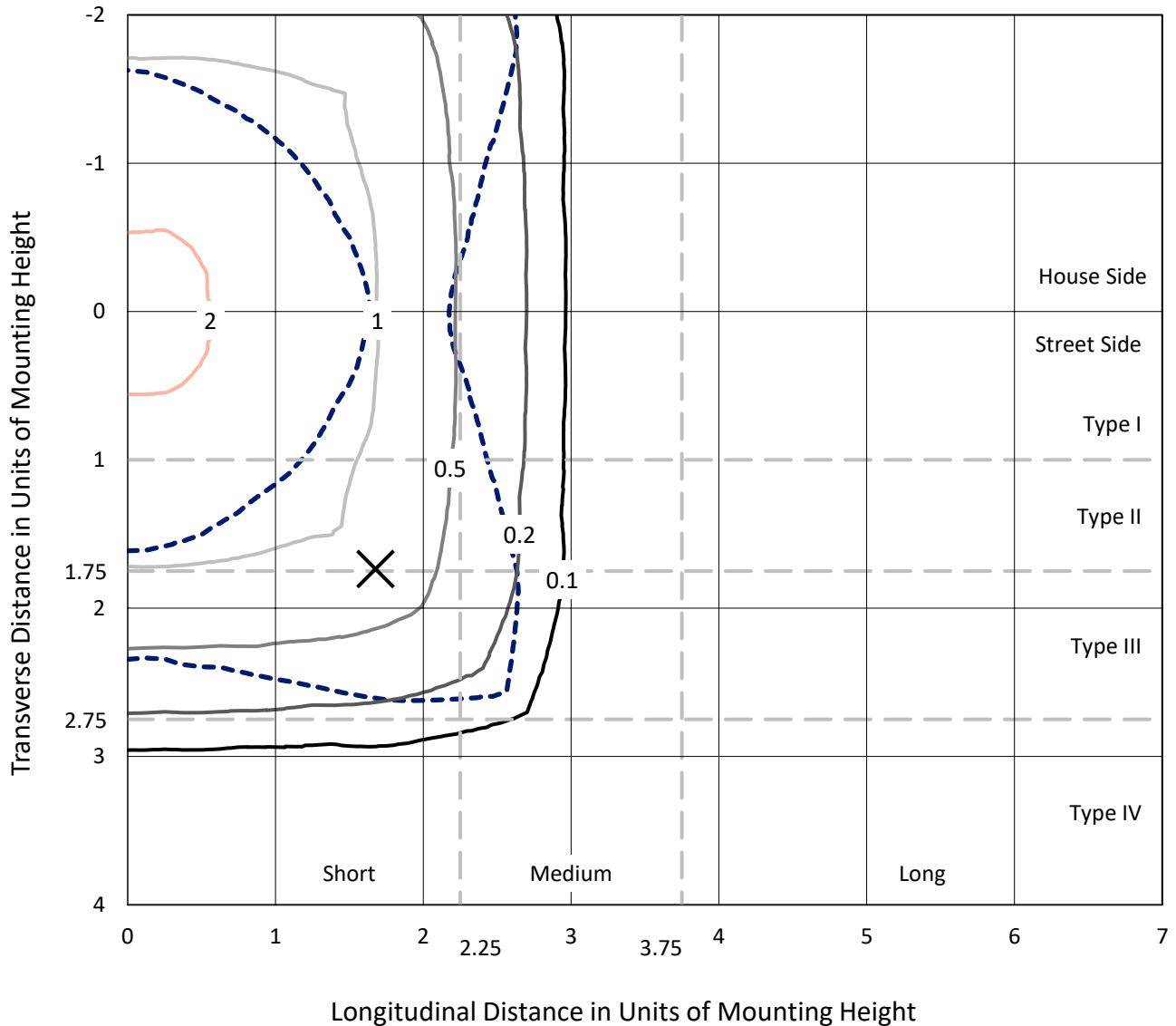
Lumens per Lamp: N/A
Luminaire Lumens: 10568.1 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 108.2
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

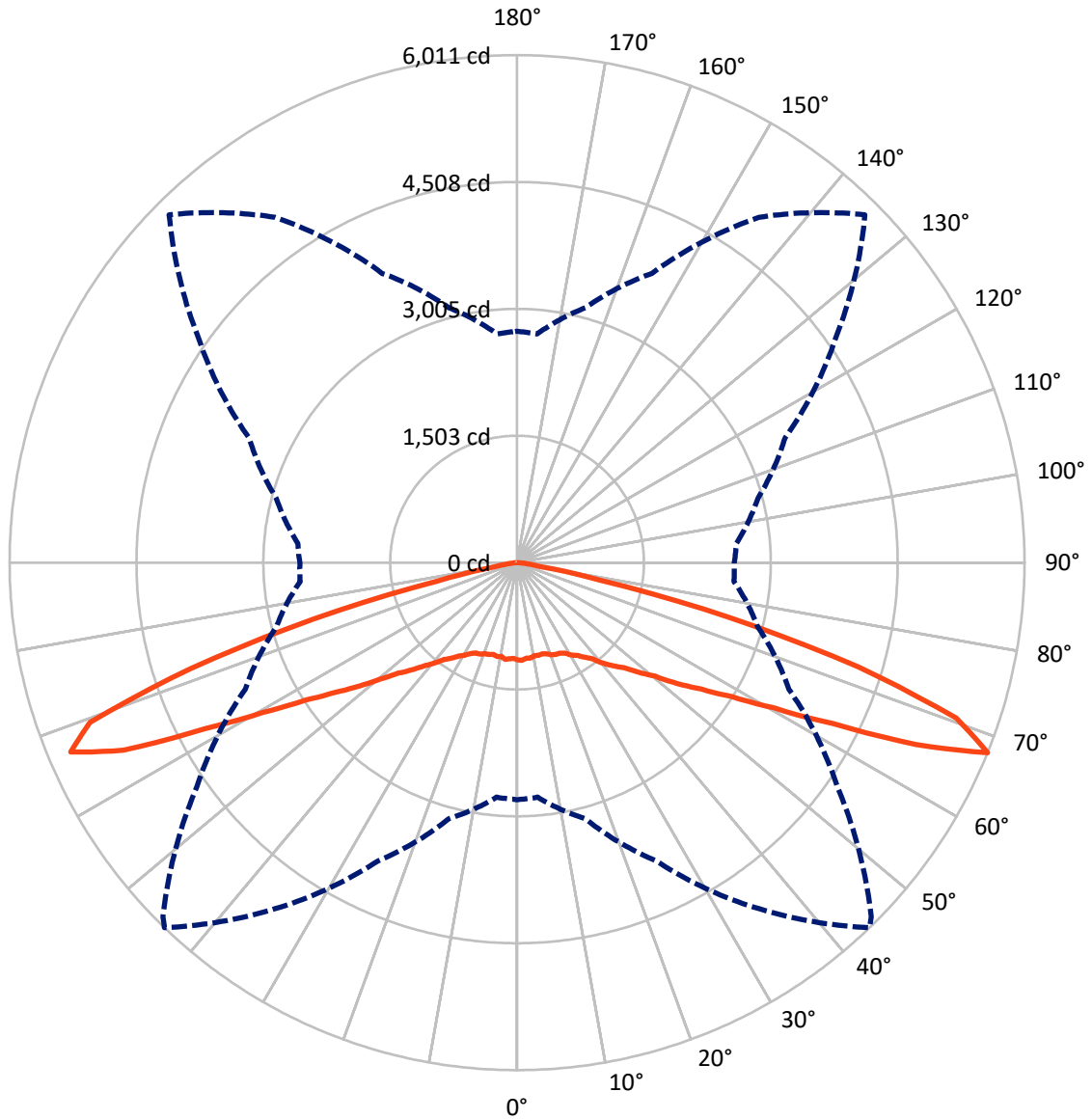
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.9 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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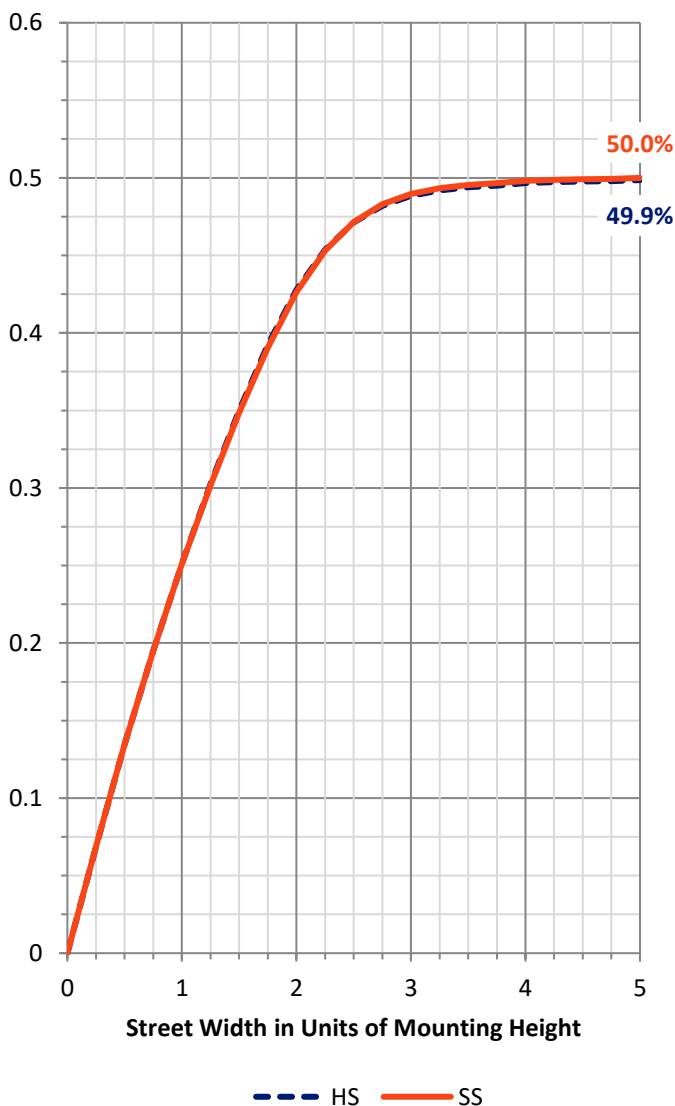
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5270.5	0.0	5270.5
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	5297.6	0.0	5297.6
	% Fixture	50.1	0.0	50.1
Total	Lumens	10568.1	0.0	10568.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	1.0
10°-20°	319.1	3.0
20°-30°	542.7	5.1
30°-40°	860.5	8.1
40°-50°	1403.1	13.3
50°-60°	2396.3	22.7
60°-70°	3644.8	34.5
70°-80°	1228.5	11.6
80°-90°	63.8	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°	10568.1	100.0
0°-180°	10568.1	100.0

Coefficient of Utilization



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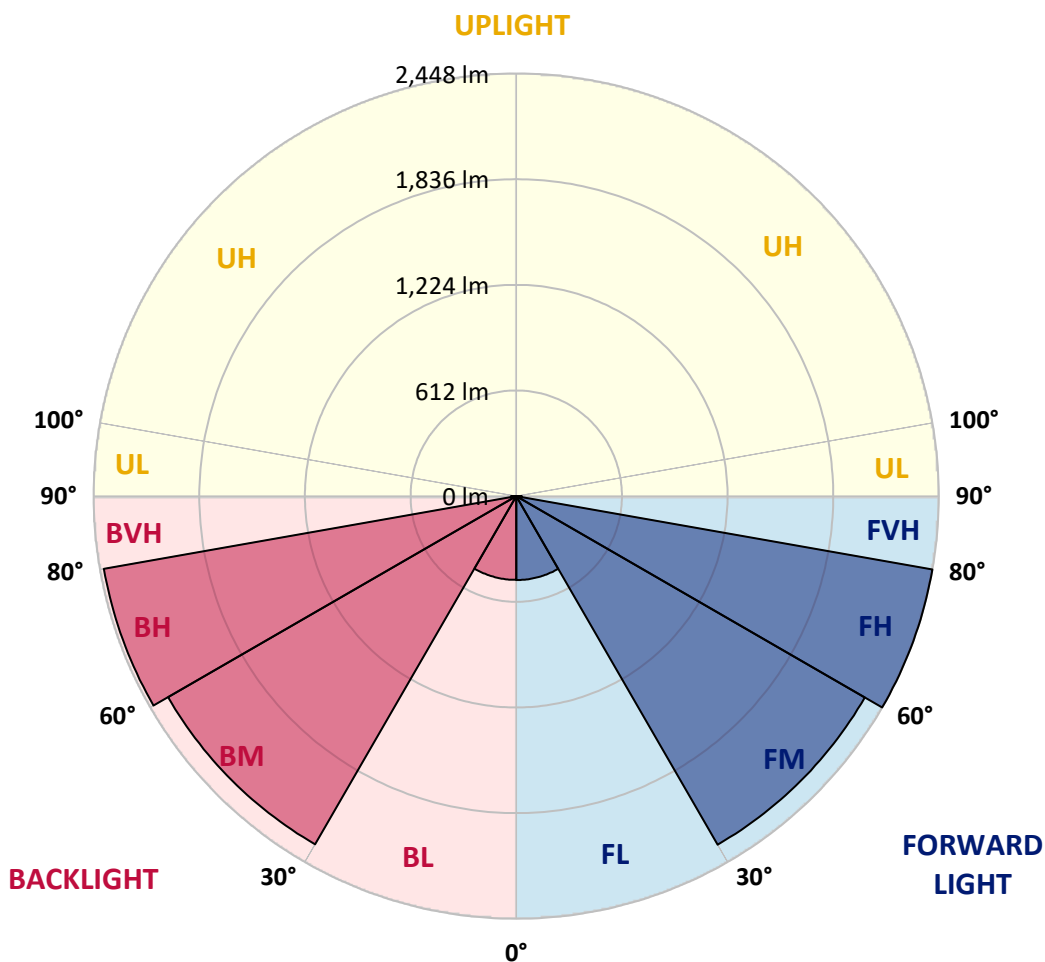
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	486.0	4.6			
FM (30°-60°)	2331.2	22.1			
FH (60°-80°)	2447.7	23.2			G2/5000
FVH (80°-90°)	32.6	0.3			G1/100
BL (0°-30°)	485.0	4.6	B1/500		
BM (30°-60°)	2328.7	22.0	B2/2500		
BH (60°-80°)	2425.6	23.0	B3/2500		G2/5000
BVH (80°-90°)	31.2	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°	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4
2.5°	1127.8	1141.1	1150.8	1149.6	1153.2	1156.8	1152.0	1159.2	1154.4	1162.8	1167.7
5°	1149.6	1145.9	1147.1	1139.9	1156.8	1137.5	1137.5	1147.1	1159.2	1144.7	1153.2
7.5°	1136.3	1133.9	1127.8	1138.7	1142.3	1142.3	1152.0	1133.9	1154.4	1159.2	1160.4
10°	1121.8	1108.5	1126.6	1137.5	1139.9	1120.6	1129.1	1133.9	1127.8	1133.9	1137.5
12.5°	1109.8	1117.0	1117.0	1117.0	1113.4	1126.6	1135.1	1133.9	1121.8	1132.7	1113.4
15°	1108.5	1104.9	1115.8	1125.4	1119.4	1121.8	1125.4	1136.3	1113.4	1118.2	1118.2
17.5°	1107.3	1112.2	1115.8	1114.6	1135.1	1135.1	1131.5	1124.2	1142.3	1132.7	1119.4
20°	1112.2	1108.5	1118.2	1121.8	1136.3	1165.2	1154.4	1148.4	1138.7	1126.6	1126.6
22.5°	1118.2	1115.8	1129.1	1144.7	1172.5	1179.7	1178.5	1171.3	1154.4	1139.9	1137.5
25°	1139.9	1118.2	1132.7	1162.8	1172.5	1187.0	1196.6	1187.0	1164.0	1167.7	1145.9
27.5°	1172.5	1168.9	1188.2	1208.7	1200.2	1213.5	1205.0	1212.3	1213.5	1195.4	1173.7
30°	1211.1	1200.2	1212.3	1252.1	1255.7	1270.2	1255.7	1236.4	1242.4	1226.8	1215.9
32.5°	1266.6	1262.9	1285.9	1312.4	1317.2	1310.0	1302.8	1313.6	1288.3	1276.2	1256.9
35°	1302.8	1318.4	1346.2	1366.7	1382.4	1375.1	1378.7	1367.9	1373.9	1348.6	1340.1
37.5°	1410.1	1404.1	1410.1	1445.1	1448.7	1445.1	1448.7	1460.8	1452.3	1430.6	1408.9
40°	1511.4	1501.8	1516.3	1556.1	1553.7	1565.7	1541.6	1554.9	1554.9	1513.8	1505.4
42.5°	1587.4	1620.0	1636.9	1669.5	1681.5	1670.7	1665.8	1668.2	1694.8	1646.5	1628.4
45°	1744.2	1743.0	1793.7	1811.8	1778.0	1775.6	1766.0	1794.9	1813.0	1785.3	1778.0
47.5°	1914.3	1922.8	1951.7	1959.0	1979.5	1942.1	1942.1	1945.7	2009.6	1944.5	1910.7
50°	2067.5	2078.4	2136.3	2193.0	2154.4	2114.6	2130.2	2149.5	2184.5	2123.0	2094.1
52.5°	2253.3	2312.4	2351.0	2381.1	2408.9	2381.1	2345.0	2366.7	2435.4	2353.4	2317.2
55°	2521.1	2568.1	2604.3	2659.8	2682.7	2645.3	2641.7	2639.3	2677.9	2591.0	2541.6
57.5°	2820.2	2800.9	2858.8	2944.5	3027.7	2991.5	2980.6	2983.1	2992.7	2869.7	2832.3
60°	3191.7	3213.5	3282.2	3357.0	3445.1	3495.7	3424.5	3383.5	3392.0	3224.3	3166.4
62.5°	3404.0	3452.3	3607.9	3864.8	4042.1	4200.2	4211.0	3944.4	3765.9	3440.2	3194.2
65°	3301.5	3294.3	3587.4	4062.7	4734.5	5194.1	5125.4	4478.8	3855.2	3337.7	3007.2
67.5°	2808.2	2788.9	3143.5	3897.4	5007.1	6010.7	5932.3	4629.6	3553.6	2952.9	2579.0
70°	1809.4	1804.6	2189.3	2971.0	4470.4	5518.6	5547.5	4205.0	2892.6	2162.8	1792.5
72.5°	657.4	697.2	920.4	1597.1	3036.1	4221.9	4240.0	3113.3	1663.4	1000.0	737.0
75°	242.5	249.7	290.7	518.7	1383.6	2592.2	2659.8	1510.2	591.1	325.7	265.4
77.5°	139.9	141.1	155.6	193.0	410.1	1012.0	1053.1	458.4	229.2	173.7	160.4
80°	95.3	94.1	109.8	125.5	164.1	287.1	305.2	191.8	144.8	120.6	101.3
82.5°	55.5	59.1	80.8	89.3	100.1	126.7	129.1	119.4	108.6	89.3	66.3
85°	33.8	27.7	44.6	49.5	57.9	56.7	56.7	65.1	70.0	62.7	37.4
87.5°	8.4	8.4	10.9	12.1	15.7	12.1	13.3	25.3	33.8	31.4	19.3
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°	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4
2.5°	1156.8	1153.2	1155.6	1168.9	1160.4	1135.1	1141.1	1154.4	1143.5	1137.5	1136.3
5°	1152.0	1159.2	1150.8	1153.2	1161.6	1141.1	1144.7	1161.6	1154.4	1156.8	1143.5
7.5°	1153.2	1156.8	1149.6	1138.7	1138.7	1155.6	1145.9	1148.4	1137.5	1155.6	1131.5
10°	1145.9	1136.3	1127.8	1133.9	1131.5	1126.6	1123.0	1130.3	1119.4	1135.1	1118.2
12.5°	1124.2	1126.6	1124.2	1121.8	1126.6	1138.7	1119.4	1121.8	1104.9	1107.3	1115.8
15°	1115.8	1123.0	1120.6	1133.9	1139.9	1121.8	1136.3	1121.8	1108.5	1101.3	1114.6
17.5°	1119.4	1130.3	1126.6	1136.3	1125.4	1138.7	1141.1	1135.1	1119.4	1113.4	1119.4
20°	1123.0	1119.4	1124.2	1141.1	1156.8	1143.5	1143.5	1139.9	1125.4	1117.0	1117.0
22.5°	1131.5	1125.4	1132.7	1145.9	1150.8	1171.3	1153.2	1144.7	1120.6	1098.9	1119.4
25°	1148.4	1152.0	1156.8	1152.0	1178.5	1176.1	1173.7	1167.7	1130.3	1131.5	1127.8
27.5°	1180.9	1160.4	1166.4	1195.4	1199.0	1208.7	1196.6	1207.5	1167.7	1168.9	1144.7
30°	1220.7	1199.0	1218.3	1243.6	1242.4	1260.5	1254.5	1256.9	1229.2	1213.5	1180.9
32.5°	1264.2	1261.7	1273.8	1289.5	1295.5	1305.2	1304.0	1304.0	1287.1	1246.1	1252.1
35°	1312.4	1329.3	1343.8	1360.7	1363.1	1375.1	1358.2	1360.7	1343.8	1313.6	1323.3
37.5°	1407.7	1406.5	1422.2	1442.7	1445.1	1435.4	1448.7	1442.7	1419.8	1399.3	1383.6
40°	1518.7	1494.5	1509.0	1557.3	1560.9	1544.0	1542.8	1541.6	1524.7	1480.1	1470.4
42.5°	1615.2	1646.5	1644.1	1659.8	1648.9	1640.5	1670.7	1653.8	1640.5	1593.5	1585.0
45°	1739.4	1749.1	1780.4	1831.1	1779.2	1779.2	1799.7	1786.5	1779.2	1744.2	1711.7
47.5°	1893.8	1902.3	1965.0	1968.6	1934.8	1911.9	1975.8	1978.3	1948.1	1921.6	1881.8
50°	2074.8	2078.4	2135.1	2193.0	2155.6	2112.1	2177.3	2202.6	2135.1	2098.9	2049.4
52.5°	2273.8	2262.9	2310.0	2418.5	2382.3	2369.1	2439.0	2445.1	2353.4	2296.7	2310.0
55°	2503.0	2488.5	2616.4	2689.9	2667.0	2642.9	2674.3	2688.7	2615.2	2522.3	2554.8
57.5°	2799.7	2806.9	2870.9	2943.3	2980.6	2986.7	3001.2	2986.7	2911.9	2817.8	2787.6
60°	3096.4	3118.2	3242.4	3378.7	3390.8	3496.9	3477.6	3405.2	3299.1	3165.2	3171.2
62.5°	3206.2	3188.1	3388.4	3721.3	4004.8	4199.0	4113.3	3856.4	3610.3	3366.6	3384.7
65°	2985.5	3030.1	3302.7	3823.8	4439.0	5207.4	4751.4	4040.9	3544.0	3229.1	3194.2
67.5°	2572.9	2606.7	2952.9	3503.0	4594.6	5827.4	4992.7	3780.4	3125.4	2717.7	2739.4
70°	1792.5	1809.4	2148.3	2869.7	4166.4	5499.3	4504.1	2903.4	2158.0	1720.1	1744.2
72.5°	721.3	762.4	985.5	1728.6	3075.9	4178.5	3032.5	1523.5	895.0	665.9	604.3
75°	266.6	267.8	314.8	594.7	1460.8	2626.0	1367.9	489.7	285.9	234.0	223.2
77.5°	154.4	153.2	164.1	214.7	423.4	1025.3	388.4	191.8	155.6	139.9	133.9
80°	96.5	95.3	112.2	142.3	185.8	281.1	164.1	119.4	104.9	90.5	90.5
82.5°	61.5	62.7	88.1	104.9	113.4	124.2	95.3	84.4	78.4	51.9	50.7
85°	39.8	36.2	61.5	70.0	62.7	55.5	53.1	44.6	41.0	25.3	27.7
87.5°	18.1	19.3	31.4	35.0	22.9	13.3	13.3	9.7	9.7	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	0.0

(END OF REPORT)