

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: P478815

Luminaire Tested: **IFLD-S-SA2B-727-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478815
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-727-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

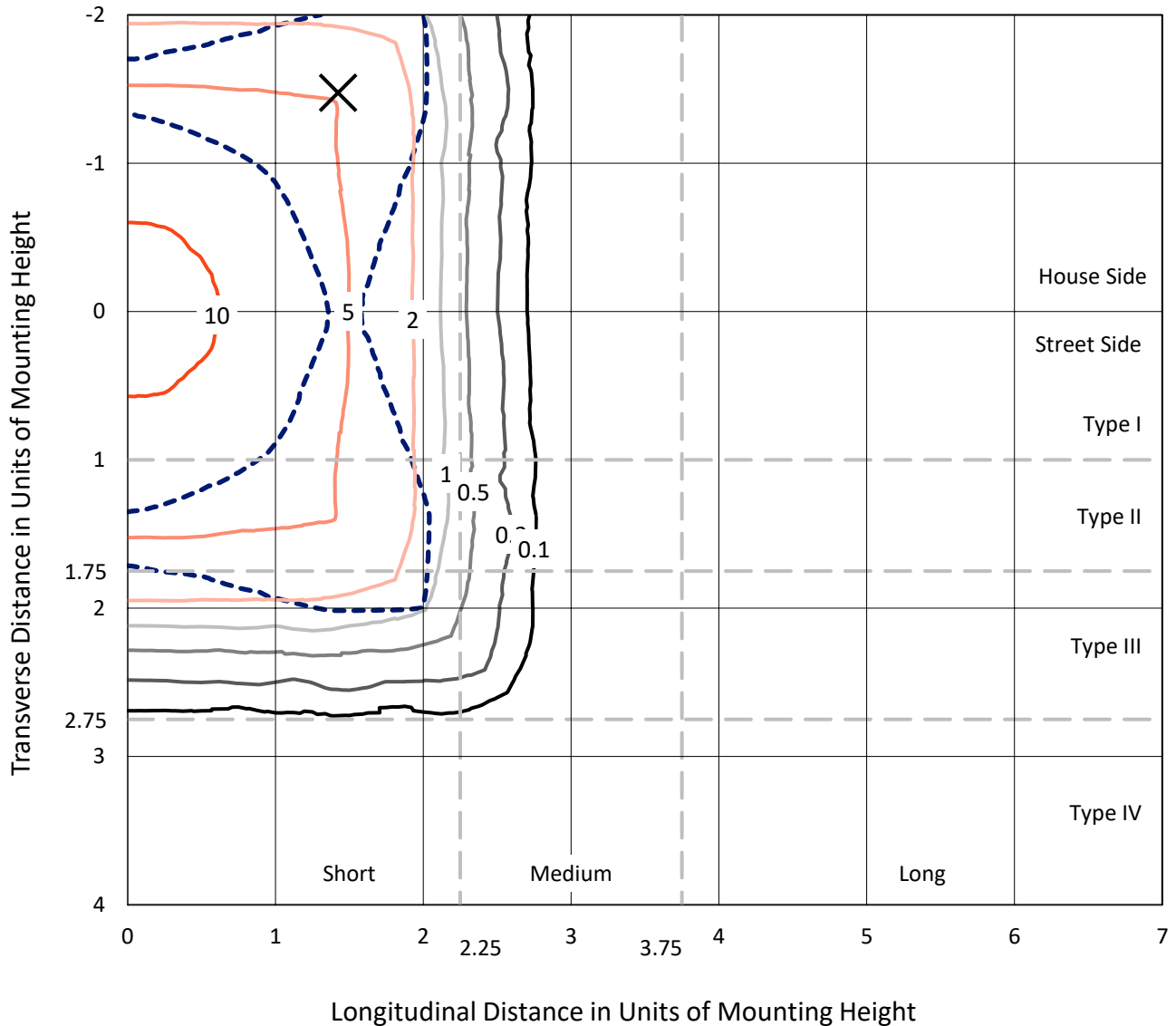
Lumens per Lamp: N/A
Luminaire Lumens: 9523.6 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 82.4
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

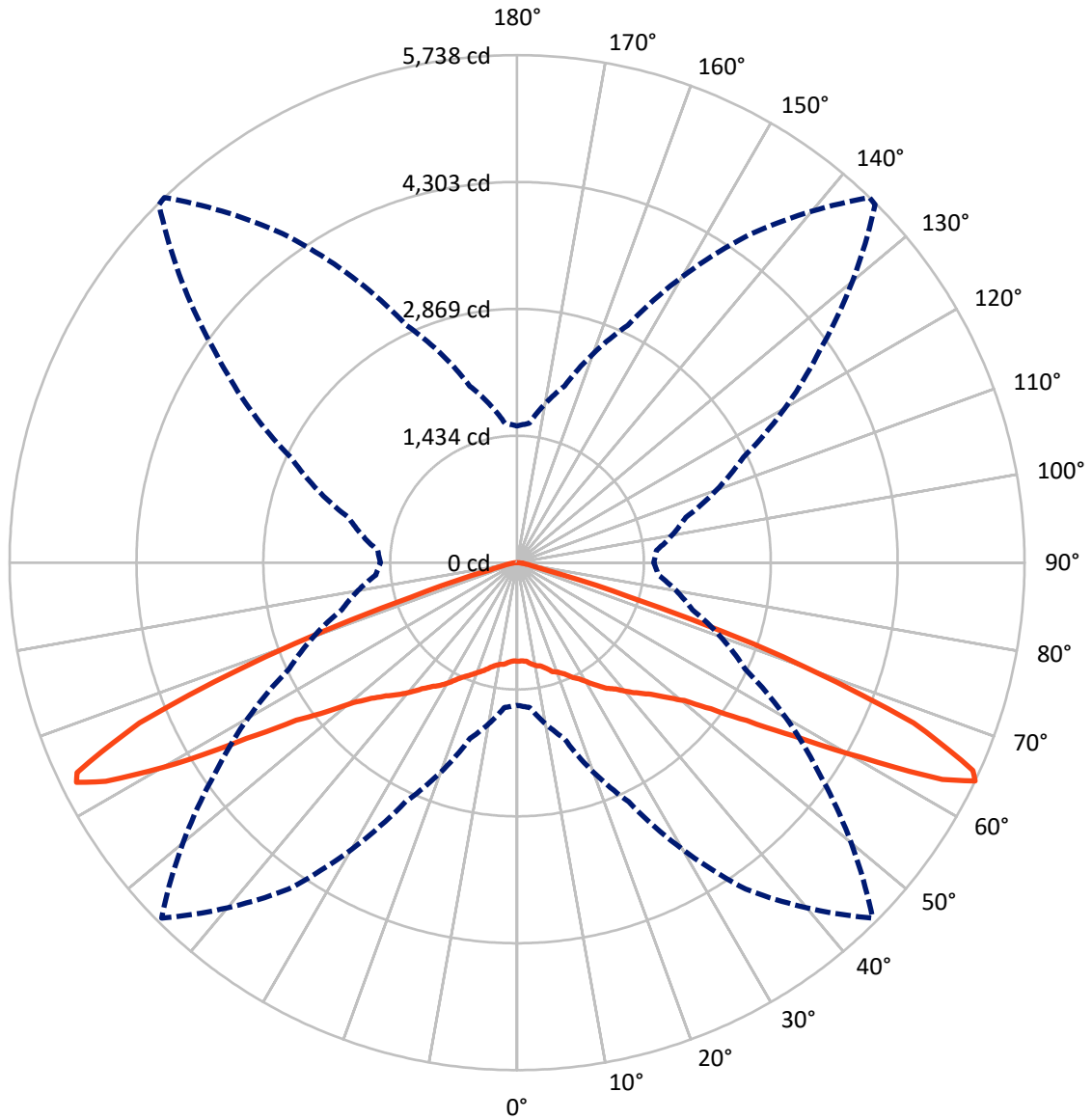
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.4 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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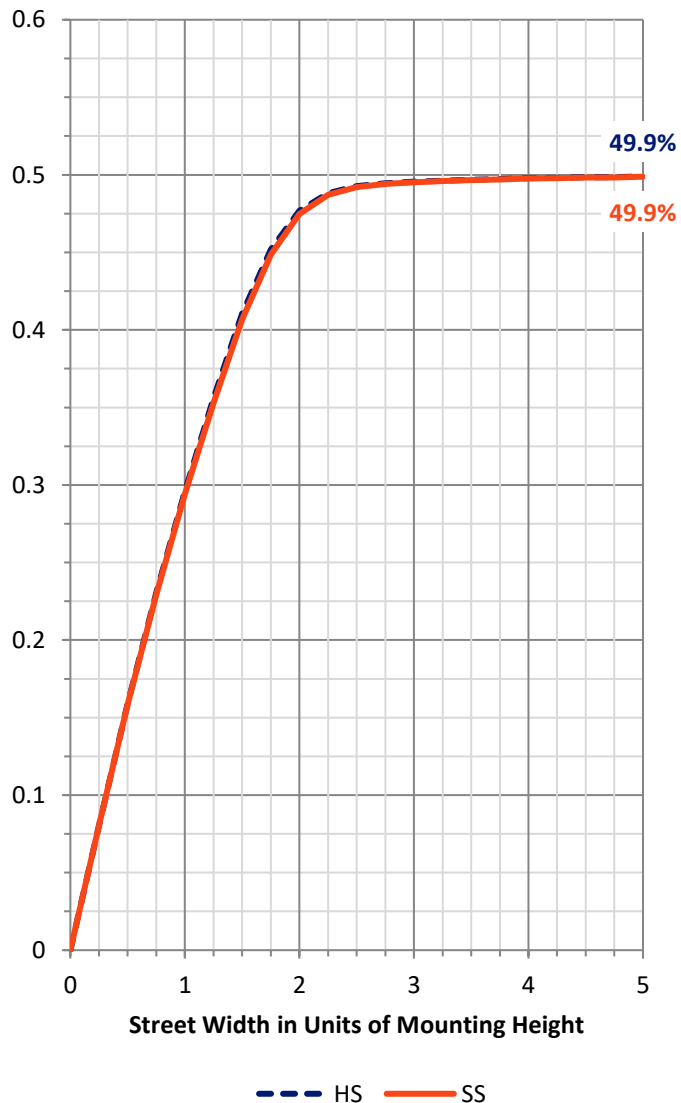
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4766.3	0.0	4766.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4757.3	0.0	4757.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	9523.6	0.0	9523.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	1.2
10°-20°	353.1	3.7
20°-30°	663.6	7.0
30°-40°	1094.5	11.5
40°-50°	1711.6	18.0
50°-60°	2765.6	29.0
60°-70°	2490.2	26.1
70°-80°	295.0	3.1
80°-90°	40.4	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°	9523.6	100.0
0°-180°	9523.6	100.0

Coefficient of Utilization



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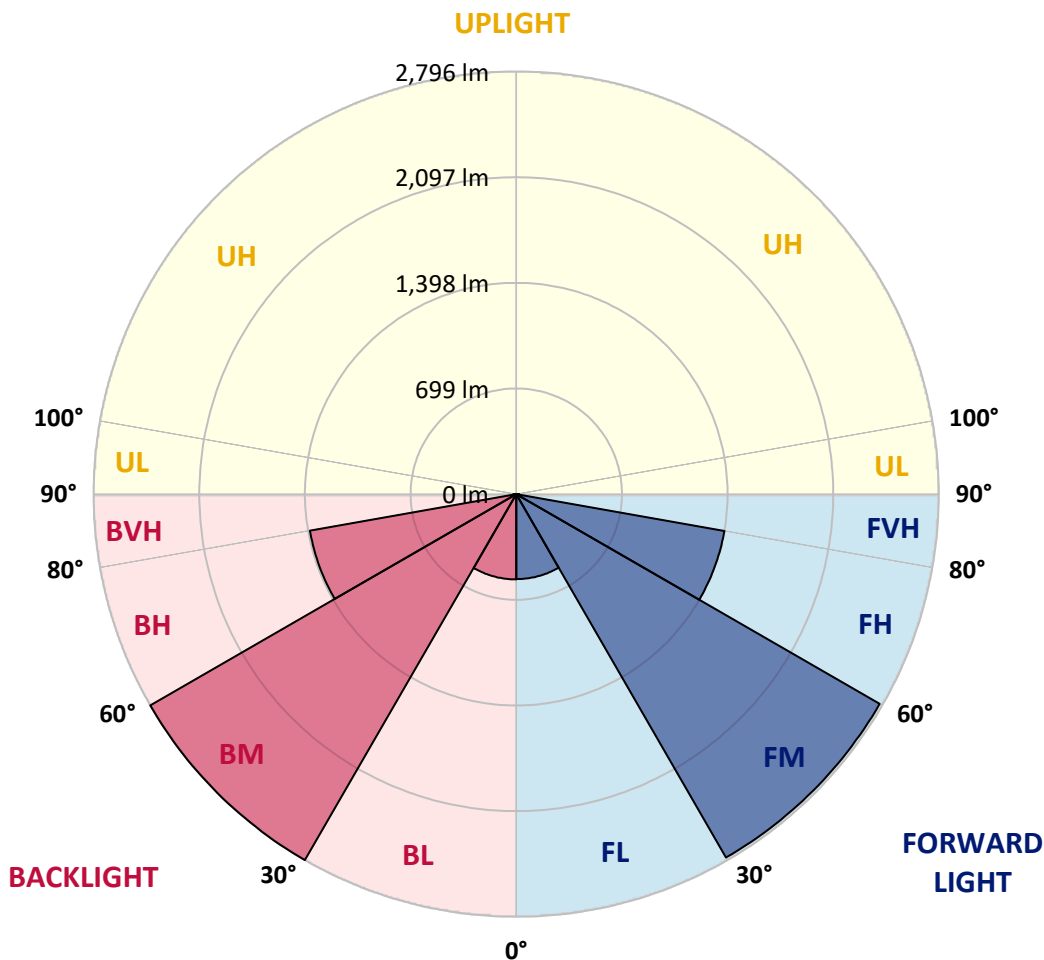
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	562.1	5.9			
FM (30°-60°)	2775.8	29.1			
FH (60°-80°)	1398.6	14.7			G1/1800
FVH (80°-90°)	20.7	0.2			G1/100
BL (0°-30°)	564.2	5.9	B2/1000		
BM (30°-60°)	2795.9	29.4	B3/5000		
BH (60°-80°)	1386.6	14.6	B3/2500		G1/1800
BVH (80°-90°)	19.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1115.0	1115.0	1115.0	1115.0	1115.0	1115.0	1115.0	1115.0	1115.0	1115.0	1115.0
2.5°	1101.9	1104.1	1123.8	1116.1	1122.7	1110.6	1119.4	1138.0	1116.1	1132.5	1138.0
5°	1113.9	1117.2	1117.2	1124.8	1129.2	1127.0	1132.5	1124.8	1145.6	1136.9	1150.0
7.5°	1157.6	1152.1	1143.4	1150.0	1151.1	1156.5	1162.0	1171.8	1168.5	1160.9	1174.0
10°	1165.3	1160.9	1174.0	1175.1	1169.6	1165.3	1170.7	1170.7	1180.5	1182.7	1182.7
12.5°	1178.4	1182.7	1181.6	1190.4	1191.5	1188.2	1196.9	1213.3	1208.9	1212.2	1204.6
15°	1228.6	1223.1	1222.0	1230.8	1245.0	1224.2	1239.5	1238.4	1234.1	1240.6	1223.1
17.5°	1272.3	1254.8	1262.4	1276.6	1271.2	1275.6	1295.2	1277.7	1282.1	1274.5	1269.0
20°	1310.5	1296.3	1297.4	1302.9	1302.9	1316.0	1323.6	1317.1	1312.7	1311.6	1313.8
22.5°	1353.1	1336.7	1337.8	1360.7	1368.4	1364.0	1358.6	1369.5	1371.7	1362.9	1372.7
25°	1384.8	1402.2	1407.7	1418.6	1402.2	1414.2	1409.9	1430.6	1443.7	1426.3	1438.3
27.5°	1467.8	1460.1	1474.3	1473.2	1486.3	1474.3	1482.0	1488.5	1494.0	1495.1	1489.6
30°	1542.0	1545.3	1531.1	1569.3	1538.7	1558.4	1571.5	1574.8	1581.3	1581.3	1565.0
32.5°	1620.7	1614.1	1637.0	1628.3	1622.8	1638.1	1623.9	1668.7	1642.5	1657.8	1639.2
35°	1709.1	1709.1	1717.8	1741.9	1709.1	1699.3	1725.5	1744.1	1744.1	1716.8	1723.3
37.5°	1808.5	1799.8	1810.7	1841.3	1816.1	1783.4	1831.4	1839.1	1833.6	1826.0	1812.9
40°	1878.4	1876.2	1898.0	1938.4	1902.4	1895.9	1904.6	1925.3	1931.9	1939.5	1922.1
42.5°	1996.3	2006.2	2069.5	2059.7	2030.2	2007.3	2005.1	2082.6	2064.0	2044.4	2034.6
45°	2171.1	2162.3	2195.1	2196.2	2158.0	2107.7	2118.6	2189.6	2221.3	2177.6	2194.0
47.5°	2309.8	2314.1	2337.1	2384.0	2295.6	2243.1	2283.5	2398.2	2388.4	2372.0	2387.3
50°	2495.4	2515.1	2587.1	2570.8	2492.1	2427.7	2516.2	2624.3	2636.3	2576.2	2565.3
52.5°	2752.1	2782.6	2821.9	2835.1	2759.7	2736.8	2742.2	2876.5	2847.1	2789.2	2752.1
55°	2977.0	2991.2	3063.3	3171.4	3166.0	3055.7	3119.0	3169.2	3049.1	2930.1	2939.9
57.5°	3073.1	3079.7	3280.6	3496.9	3625.7	3650.8	3578.8	3409.5	3123.4	2894.0	2879.8
60°	2834.0	2896.2	3138.6	3626.8	4215.4	4505.9	4026.5	3436.8	2949.7	2671.2	2650.5
62.5°	2265.0	2268.3	2628.6	3369.1	4582.4	5343.6	4198.0	3180.1	2486.7	2171.1	2088.1
64°	1613.0	1643.6	2057.5	2982.5	4505.9	5684.3	4177.2	2844.9	2049.8	1602.1	1544.2
65°	1157.6	1200.2	1599.9	2589.3	4326.8	5643.9	4115.0	2556.6	1657.8	1223.1	1164.2
67.5°	425.9	443.4	627.9	1295.2	3107.0	4809.5	3261.0	1405.5	728.4	518.7	466.3
70°	197.7	198.8	232.6	428.1	1358.6	3216.2	1556.2	527.5	274.1	217.3	202.0
72.5°	145.2	148.5	162.7	197.7	399.7	1361.8	511.1	216.2	160.5	142.0	138.7
75°	117.9	120.1	124.5	143.1	184.6	364.8	207.5	149.6	127.8	114.7	110.3
77.5°	90.6	90.6	100.5	109.2	122.3	170.4	137.6	119.0	103.7	90.6	87.4
80°	65.5	66.6	78.6	85.2	83.0	112.5	99.4	98.3	85.2	71.0	65.5
82.5°	38.2	41.5	56.8	61.2	59.0	66.6	72.1	76.4	66.6	49.1	44.8
85°	21.8	22.9	32.8	33.9	33.9	31.7	41.5	45.9	44.8	30.6	27.3
87.5°	6.6	6.6	8.7	8.7	9.8	10.9	16.4	19.7	21.8	15.3	14.2
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°	1115.0	1115.0	1115.0	1115.0	1115.0	1115.0	1115.0	1115.0	1115.0	1115.0	1115.0
2.5°	1132.5	1116.1	1117.2	1121.6	1107.4	1112.8	1129.2	1117.2	1113.9	1107.4	1104.1
5°	1127.0	1144.5	1138.0	1140.1	1136.9	1121.6	1119.4	1129.2	1134.7	1124.8	1144.5
7.5°	1165.3	1157.6	1148.9	1152.1	1144.5	1157.6	1166.3	1146.7	1156.5	1151.1	1140.1
10°	1187.1	1172.9	1179.5	1177.3	1171.8	1184.9	1176.2	1174.0	1165.3	1153.2	1170.7
12.5°	1194.7	1211.1	1222.0	1203.5	1206.8	1200.2	1194.7	1194.7	1184.9	1181.6	1184.9
15°	1228.6	1242.8	1238.4	1252.6	1234.1	1240.6	1247.2	1230.8	1239.5	1215.5	1234.1
17.5°	1290.8	1278.8	1294.1	1275.6	1282.1	1295.2	1274.5	1274.5	1281.0	1267.9	1251.5
20°	1330.2	1324.7	1319.2	1320.3	1309.4	1321.4	1314.9	1311.6	1301.8	1306.1	1314.9
22.5°	1367.3	1359.6	1361.8	1365.1	1372.7	1367.3	1364.0	1367.3	1343.3	1365.1	1334.5
25°	1413.2	1433.9	1427.4	1441.6	1419.7	1433.9	1432.8	1412.1	1425.2	1416.4	1409.9
27.5°	1489.6	1478.7	1488.5	1471.0	1486.3	1487.4	1474.3	1509.3	1494.0	1491.8	1487.4
30°	1587.9	1580.2	1573.7	1563.9	1575.9	1566.0	1577.0	1580.2	1566.0	1555.1	1534.4
32.5°	1643.6	1664.3	1672.0	1648.0	1649.0	1654.5	1644.7	1634.8	1643.6	1646.9	1643.6
35°	1722.2	1741.9	1746.2	1727.7	1717.8	1745.2	1725.5	1758.3	1729.9	1731.0	1701.5
37.5°	1814.0	1819.4	1856.5	1835.8	1827.1	1814.0	1850.0	1845.6	1852.2	1799.8	1826.0
40°	1917.7	1937.4	1958.1	1905.7	1904.6	1916.6	1914.4	1939.5	1927.5	1919.9	1901.3
42.5°	2031.3	2072.8	2076.1	2041.1	2019.3	2017.1	2028.0	2083.7	2084.8	2034.6	2012.7
45°	2182.0	2227.9	2215.8	2148.1	2124.1	2120.8	2174.3	2198.4	2219.1	2199.5	2180.9
47.5°	2369.8	2400.4	2391.7	2329.4	2251.9	2273.7	2326.1	2401.5	2379.7	2353.4	2331.6
50°	2570.8	2606.8	2588.2	2526.0	2451.7	2451.7	2516.2	2612.3	2605.7	2554.4	2534.7
52.5°	2793.6	2846.0	2888.6	2800.1	2737.9	2747.7	2849.2	2884.2	2867.8	2831.8	2815.4
55°	2959.5	3060.0	3147.4	3151.8	3155.0	3153.9	3180.1	3215.1	3098.2	3040.4	2981.4
57.5°	2919.1	3109.2	3408.4	3611.5	3671.6	3703.3	3694.5	3532.9	3256.6	3066.6	3086.2
60°	2630.8	2941.0	3423.7	4075.7	4512.5	4468.8	4309.4	3670.5	3169.2	2848.2	2807.7
62.5°	2099.0	2472.5	3167.0	4206.7	5410.2	5397.1	4562.7	3352.7	2640.7	2234.4	2209.3
64°	1581.3	1974.5	2825.2	4172.9	5724.7	5737.8	4498.3	2961.7	2066.2	1581.3	1543.1
65°	1210.0	1574.8	2490.0	4103.0	5657.0	5664.6	4319.2	2557.7	1570.4	1122.7	1081.2
67.5°	481.6	670.5	1350.9	3111.3	4857.6	4836.8	3081.9	1237.3	600.6	391.0	383.3
70°	205.3	255.5	474.0	1474.3	3252.2	3192.2	1326.9	401.9	222.8	186.7	185.7
72.5°	140.9	156.2	203.1	455.4	1352.0	1320.3	377.9	186.7	151.8	139.8	139.8
75°	113.6	124.5	147.4	191.1	358.2	345.1	178.0	137.6	121.2	112.5	111.4
77.5°	88.5	99.4	115.8	132.1	163.8	162.7	119.0	103.7	93.9	87.4	85.2
80°	69.9	80.8	91.7	93.9	107.0	104.8	80.8	81.9	76.4	63.3	62.2
82.5°	48.1	65.5	73.2	66.6	63.3	63.3	57.9	57.9	53.5	39.3	36.0
85°	29.5	43.7	45.9	39.3	29.5	29.5	31.7	30.6	28.4	20.7	19.7
87.5°	15.3	20.7	18.6	15.3	9.8	9.8	8.7	6.6	6.6	5.5	5.5
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)