

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: P479322

Luminaire Tested: **IFLD-S-SA2B-740-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479322
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-740-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

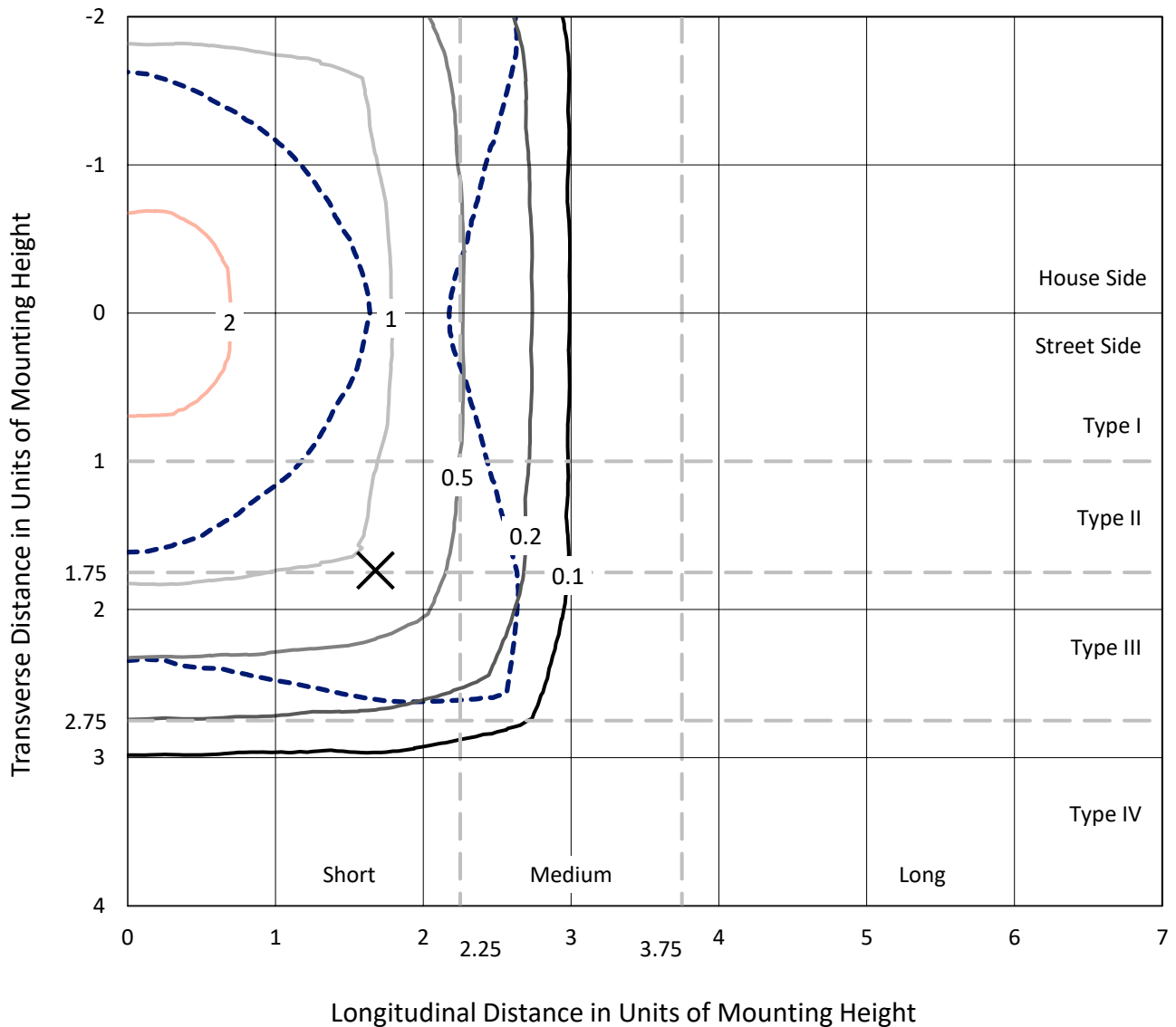
Lumens per Lamp: N/A
Luminaire Lumens: 11525.2 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

REPORT NUMBER: P479322
 CATALOG NUMBER: IFLD-S-SA2B-740-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

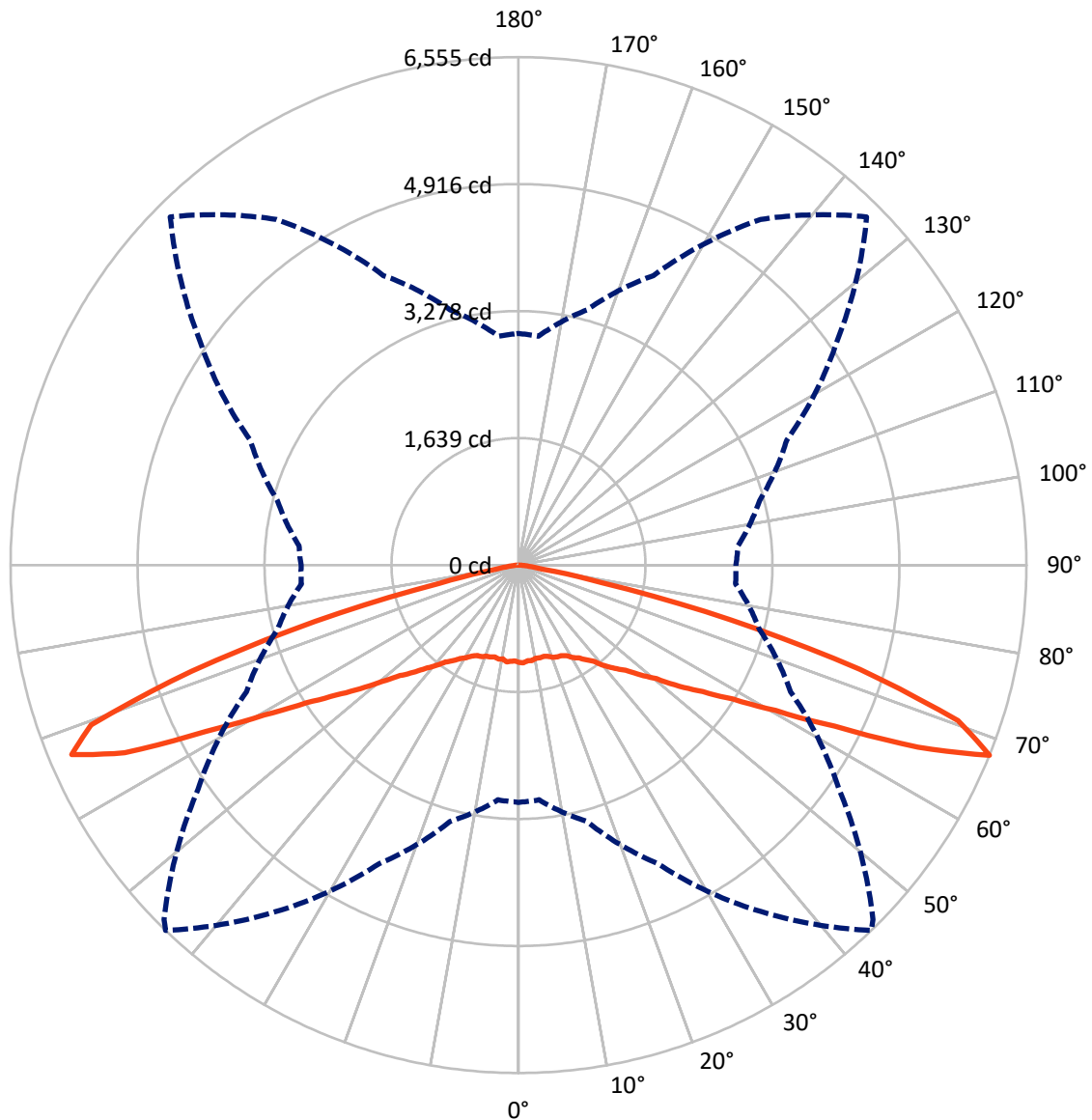
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - N/A

REPORT NUMBER: P479322
CATALOG NUMBER: IFLD-S-SA2B-740-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P479322

CATALOG NUMBER: IFLD-S-SA2B-740-U-5MQ

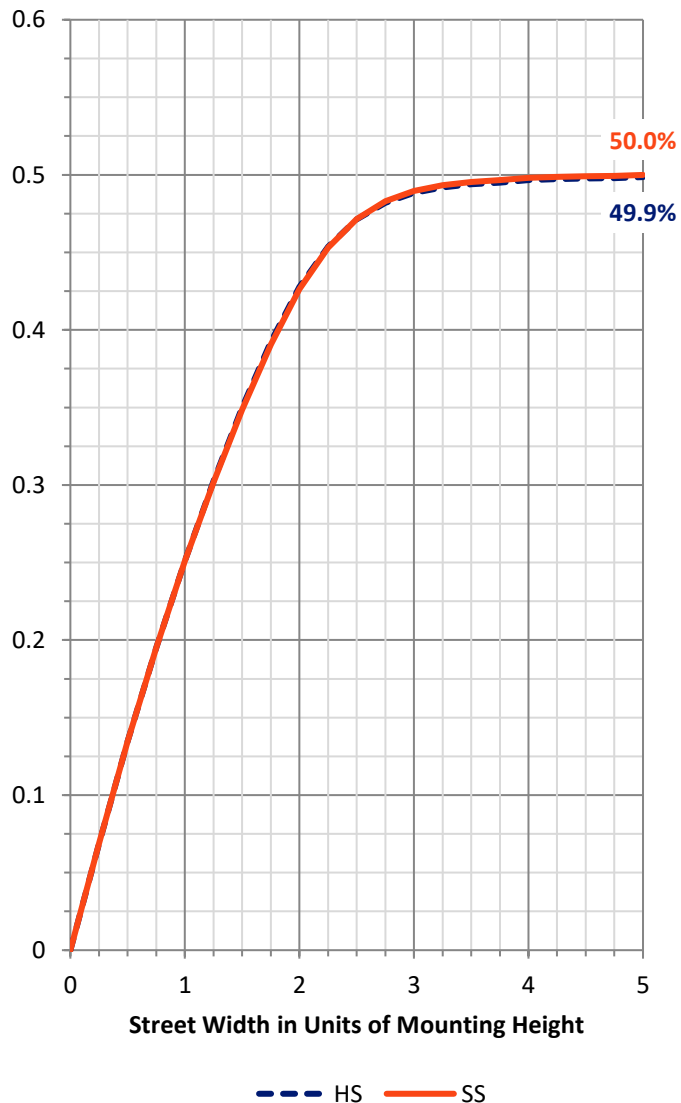
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5747.8	0.0	5747.8
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	5777.4	0.0	5777.4
	% Fixture	50.1	0.0	50.1
Total	Lumens	11525.2	0.0	11525.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	1.0
10°-20°	348.0	3.0
20°-30°	591.9	5.1
30°-40°	938.4	8.1
40°-50°	1530.2	13.3
50°-60°	2613.4	22.7
60°-70°	3974.9	34.5
70°-80°	1339.8	11.6
80°-90°	69.6	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°	11525.2	100.0
0°-180°	11525.2	100.0

Coefficient of Utilization



REPORT NUMBER: P479322

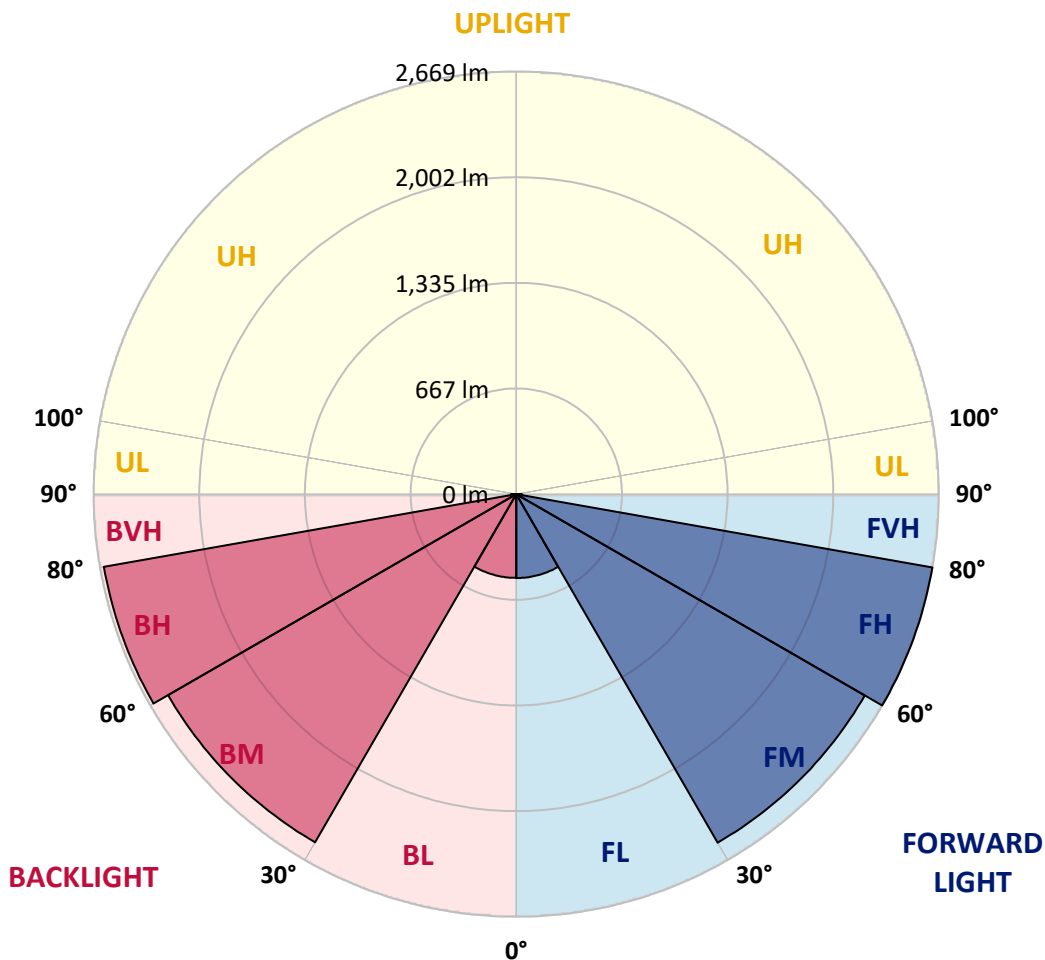
CATALOG NUMBER: IFLD-S-SA2B-740-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	530.1	4.6			
FM (30°-60°)	2542.4	22.1			
FH (60°-80°)	2669.4	23.2			G2/5000
FVH (80°-90°)	35.6	0.3			G1/100
BL (0°-30°)	529.0	4.6	B2/1000		
BM (30°-60°)	2539.6	22.0	B3/5000		
BH (60°-80°)	2645.3	23.0	B4/5000		G2/5000
BVH (80°-90°)	34.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P479322
 CATALOG NUMBER: IFLD-S-SA2B-740-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1258.9	1258.9	1258.9	1258.9	1258.9	1258.9	1258.9	1258.9	1258.9	1258.9	1258.9
2.5°	1230.0	1244.5	1255.0	1253.7	1257.6	1261.6	1256.3	1264.2	1258.9	1268.1	1273.4
5°	1253.7	1249.7	1251.0	1243.1	1261.6	1240.5	1240.5	1251.0	1264.2	1248.4	1257.6
7.5°	1239.2	1236.6	1230.0	1241.8	1245.8	1245.8	1256.3	1236.6	1258.9	1264.2	1265.5
10°	1223.4	1208.9	1228.7	1240.5	1243.1	1222.1	1231.3	1236.6	1230.0	1236.6	1240.5
12.5°	1210.3	1218.1	1218.1	1218.1	1214.2	1228.7	1237.9	1236.6	1223.4	1235.3	1214.2
15°	1208.9	1205.0	1216.8	1227.4	1220.8	1223.4	1227.4	1239.2	1214.2	1219.5	1219.5
17.5°	1207.6	1212.9	1216.8	1215.5	1237.9	1237.9	1233.9	1226.0	1245.8	1235.3	1220.8
20°	1212.9	1208.9	1219.5	1223.4	1239.2	1270.8	1258.9	1252.4	1241.8	1228.7	1228.7
22.5°	1219.5	1216.8	1231.3	1248.4	1278.7	1286.6	1285.2	1277.3	1258.9	1243.1	1240.5
25°	1243.1	1219.5	1235.3	1268.1	1278.7	1294.4	1305.0	1294.4	1269.5	1273.4	1249.7
27.5°	1278.7	1274.7	1295.8	1318.1	1308.9	1323.4	1314.2	1322.1	1323.4	1303.7	1280.0
30°	1320.8	1308.9	1322.1	1365.5	1369.4	1385.2	1369.4	1348.4	1355.0	1337.9	1326.0
32.5°	1381.3	1377.3	1402.3	1431.3	1436.5	1428.6	1420.7	1432.6	1404.9	1391.8	1370.7
35°	1420.7	1437.8	1468.1	1490.5	1507.6	1499.7	1503.6	1491.8	1498.3	1470.7	1461.5
37.5°	1537.8	1531.2	1537.8	1576.0	1579.9	1576.0	1579.9	1593.1	1583.9	1560.2	1536.5
40°	1648.3	1637.8	1653.6	1697.0	1694.4	1707.5	1681.2	1695.7	1695.7	1650.9	1641.7
42.5°	1731.2	1766.7	1785.1	1820.6	1833.8	1822.0	1816.7	1819.3	1848.3	1795.7	1775.9
45°	1902.2	1900.9	1956.1	1975.9	1939.0	1936.4	1925.9	1957.5	1977.2	1946.9	1939.0
47.5°	2087.7	2096.9	2128.5	2136.4	2158.7	2117.9	2117.9	2121.9	2191.6	2120.6	2083.7
50°	2254.8	2266.6	2329.7	2391.6	2349.5	2306.1	2323.2	2344.2	2382.4	2315.3	2283.7
52.5°	2457.3	2521.8	2563.9	2596.8	2627.0	2596.8	2557.3	2581.0	2656.0	2566.5	2527.1
55°	2749.4	2800.7	2840.2	2900.7	2925.7	2884.9	2880.9	2878.3	2920.4	2825.7	2771.7
57.5°	3075.6	3054.6	3117.7	3211.1	3301.9	3262.4	3250.6	3253.2	3263.7	3129.6	3088.8
60°	3480.8	3504.5	3579.5	3661.0	3757.1	3812.3	3734.7	3690.0	3699.2	3516.3	3453.2
62.5°	3712.3	3764.9	3934.6	4214.8	4408.2	4580.6	4592.4	4301.7	4107.0	3751.8	3483.4
65°	3600.5	3592.6	3912.3	4430.6	5163.3	5664.5	5589.5	4884.4	4204.3	3640.0	3279.5
67.5°	3062.5	3041.4	3428.2	4250.4	5460.6	6555.1	6469.6	5048.9	3875.4	3220.3	2812.5
70°	1973.2	1968.0	2387.6	3240.1	4875.2	6018.4	6050.0	4585.8	3154.6	2358.7	1954.8
72.5°	716.9	760.4	1003.7	1741.7	3311.1	4604.2	4624.0	3395.3	1814.1	1090.5	803.8
75°	264.4	272.3	317.0	565.7	1508.9	2827.0	2900.7	1647.0	644.6	355.2	289.4
77.5°	152.6	153.9	169.7	210.5	447.3	1103.7	1148.4	499.9	249.9	189.4	175.0
80°	103.9	102.6	119.7	136.8	178.9	313.1	332.8	209.2	157.9	131.5	110.5
82.5°	60.5	64.5	88.1	97.3	109.2	138.1	140.8	130.2	118.4	97.3	72.4
85°	36.8	30.3	48.7	53.9	63.1	61.8	61.8	71.0	76.3	68.4	40.8
87.5°	9.2	9.2	11.8	13.2	17.1	13.2	14.5	27.6	36.8	34.2	21.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P479322
 CATALOG NUMBER: IFLD-S-SA2B-740-U-5MQ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1258.9	1258.9	1258.9	1258.9	1258.9	1258.9	1258.9	1258.9	1258.9	1258.9	1258.9
2.5°	1261.6	1257.6	1260.2	1274.7	1265.5	1237.9	1244.5	1258.9	1247.1	1240.5	1239.2
5°	1256.3	1264.2	1255.0	1257.6	1266.8	1244.5	1248.4	1266.8	1258.9	1261.6	1247.1
7.5°	1257.6	1261.6	1253.7	1241.8	1241.8	1260.2	1249.7	1252.4	1240.5	1260.2	1233.9
10°	1249.7	1239.2	1230.0	1236.6	1233.9	1228.7	1224.7	1232.6	1220.8	1237.9	1219.5
12.5°	1226.0	1228.7	1226.0	1223.4	1228.7	1241.8	1220.8	1223.4	1205.0	1207.6	1216.8
15°	1216.8	1224.7	1222.1	1236.6	1243.1	1223.4	1239.2	1223.4	1208.9	1201.0	1215.5
17.5°	1220.8	1232.6	1228.7	1239.2	1227.4	1241.8	1244.5	1237.9	1220.8	1214.2	1220.8
20°	1224.7	1220.8	1226.0	1244.5	1261.6	1247.1	1247.1	1243.1	1227.4	1218.1	1218.1
22.5°	1233.9	1227.4	1235.3	1249.7	1255.0	1277.3	1257.6	1248.4	1222.1	1198.4	1220.8
25°	1252.4	1256.3	1261.6	1256.3	1285.2	1282.6	1280.0	1273.4	1232.6	1233.9	1230.0
27.5°	1287.9	1265.5	1272.1	1303.7	1307.6	1318.1	1305.0	1316.8	1273.4	1274.7	1248.4
30°	1331.3	1307.6	1328.7	1356.3	1355.0	1374.7	1368.1	1370.7	1340.5	1323.4	1287.9
32.5°	1378.6	1376.0	1389.2	1406.3	1412.8	1423.4	1422.1	1422.1	1403.6	1358.9	1365.5
35°	1431.3	1449.7	1465.5	1483.9	1486.5	1499.7	1481.2	1483.9	1465.5	1432.6	1443.1
37.5°	1535.2	1533.9	1551.0	1573.3	1576.0	1565.4	1579.9	1573.3	1548.3	1526.0	1508.9
40°	1656.2	1629.9	1645.7	1698.3	1702.3	1683.8	1682.5	1681.2	1662.8	1614.1	1603.6
42.5°	1761.4	1795.7	1793.0	1810.1	1798.3	1789.1	1822.0	1803.5	1789.1	1737.8	1728.6
45°	1896.9	1907.5	1941.7	1996.9	1940.4	1940.4	1962.7	1948.2	1940.4	1902.2	1866.7
47.5°	2065.3	2074.5	2142.9	2146.9	2110.1	2085.1	2154.8	2157.4	2124.5	2095.6	2052.2
50°	2262.7	2266.6	2328.4	2391.6	2350.8	2303.4	2374.5	2402.1	2328.4	2289.0	2235.0
52.5°	2479.7	2467.9	2519.2	2637.6	2598.1	2583.6	2659.9	2666.5	2566.5	2504.7	2519.2
55°	2729.7	2713.9	2853.3	2933.6	2908.6	2882.3	2916.5	2932.2	2852.0	2750.7	2786.2
57.5°	3053.3	3061.2	3130.9	3209.8	3250.6	3257.2	3273.0	3257.2	3175.6	3073.0	3040.1
60°	3376.9	3400.6	3536.1	3684.7	3697.9	3813.6	3792.6	3713.6	3597.9	3451.9	3458.4
62.5°	3496.6	3476.9	3695.2	4058.3	4367.4	4579.2	4485.8	4205.6	3937.3	3671.5	3691.3
65°	3255.9	3304.5	3601.8	4170.1	4841.0	5679.0	5181.7	4406.9	3864.9	3521.6	3483.4
67.5°	2806.0	2842.8	3220.3	3820.2	5010.7	6355.2	5444.8	4122.8	3408.4	2963.8	2987.5
70°	1954.8	1973.2	2342.9	3129.6	4543.7	5997.3	4912.1	3166.4	2353.4	1875.9	1902.2
72.5°	786.7	831.4	1074.8	1885.1	3354.5	4556.9	3307.2	1661.5	976.1	726.2	659.1
75°	290.7	292.0	343.3	648.5	1593.1	2863.8	1491.8	534.1	311.8	255.2	243.4
77.5°	168.4	167.1	178.9	234.2	461.7	1118.2	423.6	209.2	169.7	152.6	146.0
80°	105.2	103.9	122.3	155.2	202.6	306.5	178.9	130.2	114.4	98.7	98.7
82.5°	67.1	68.4	96.0	114.4	123.7	135.5	103.9	92.1	85.5	56.6	55.3
85°	43.4	39.5	67.1	76.3	68.4	60.5	57.9	48.7	44.7	27.6	30.3
87.5°	19.7	21.0	34.2	38.1	25.0	14.5	14.5	10.5	10.5	6.6	6.6
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)