

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1461581

Luminaire Tested: USSL-50-8540-U-T2R

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461581
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-50-8540-U-T2R
Description: USSL DISCRETE LED 1 SQUARE 50W 85CRI 4000k FIXTURE w/ TYPE II ROADWAY DISTRIBUTION OPTIC
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7567.3 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

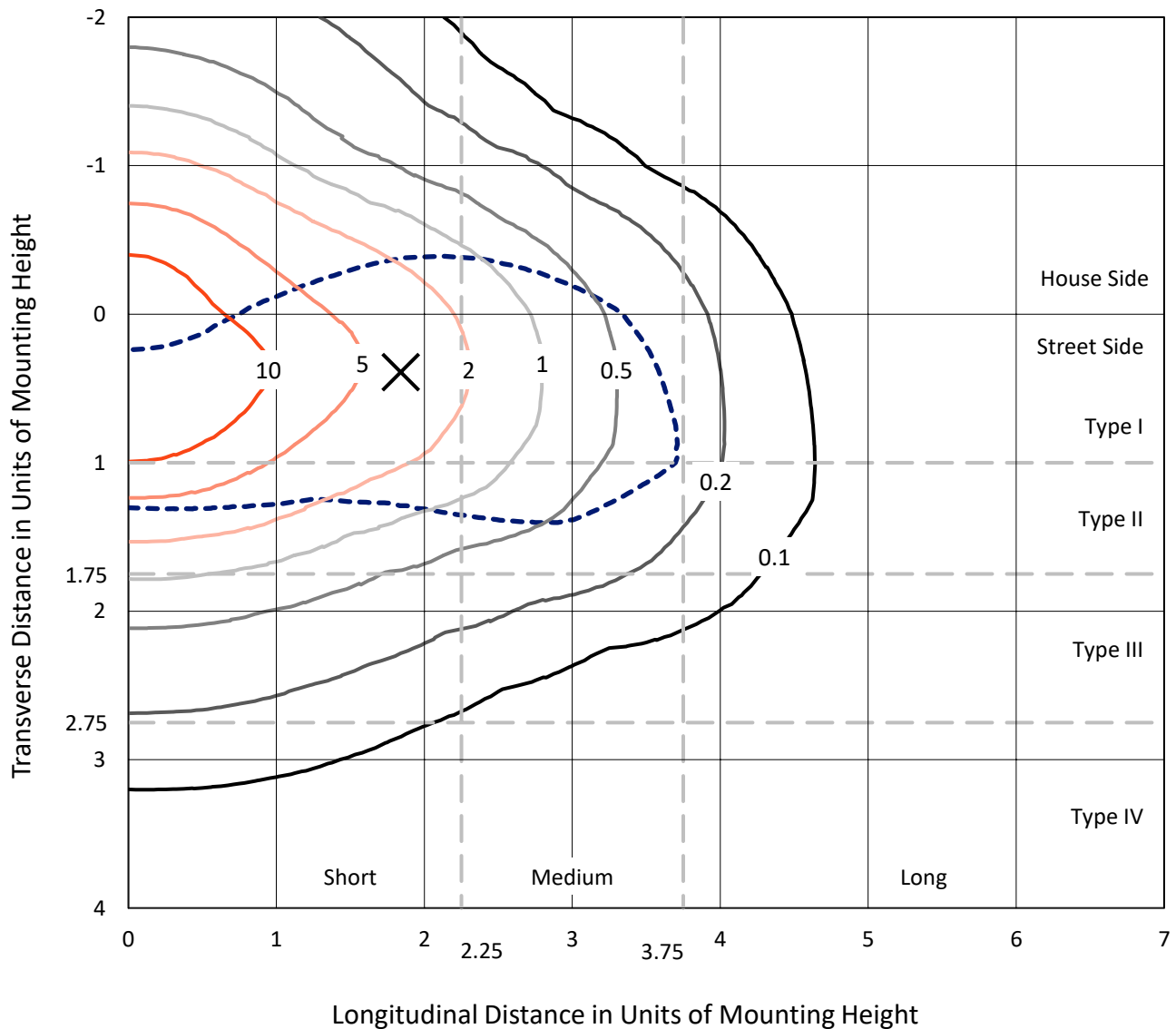
Input Watts (W): 52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 3.35%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

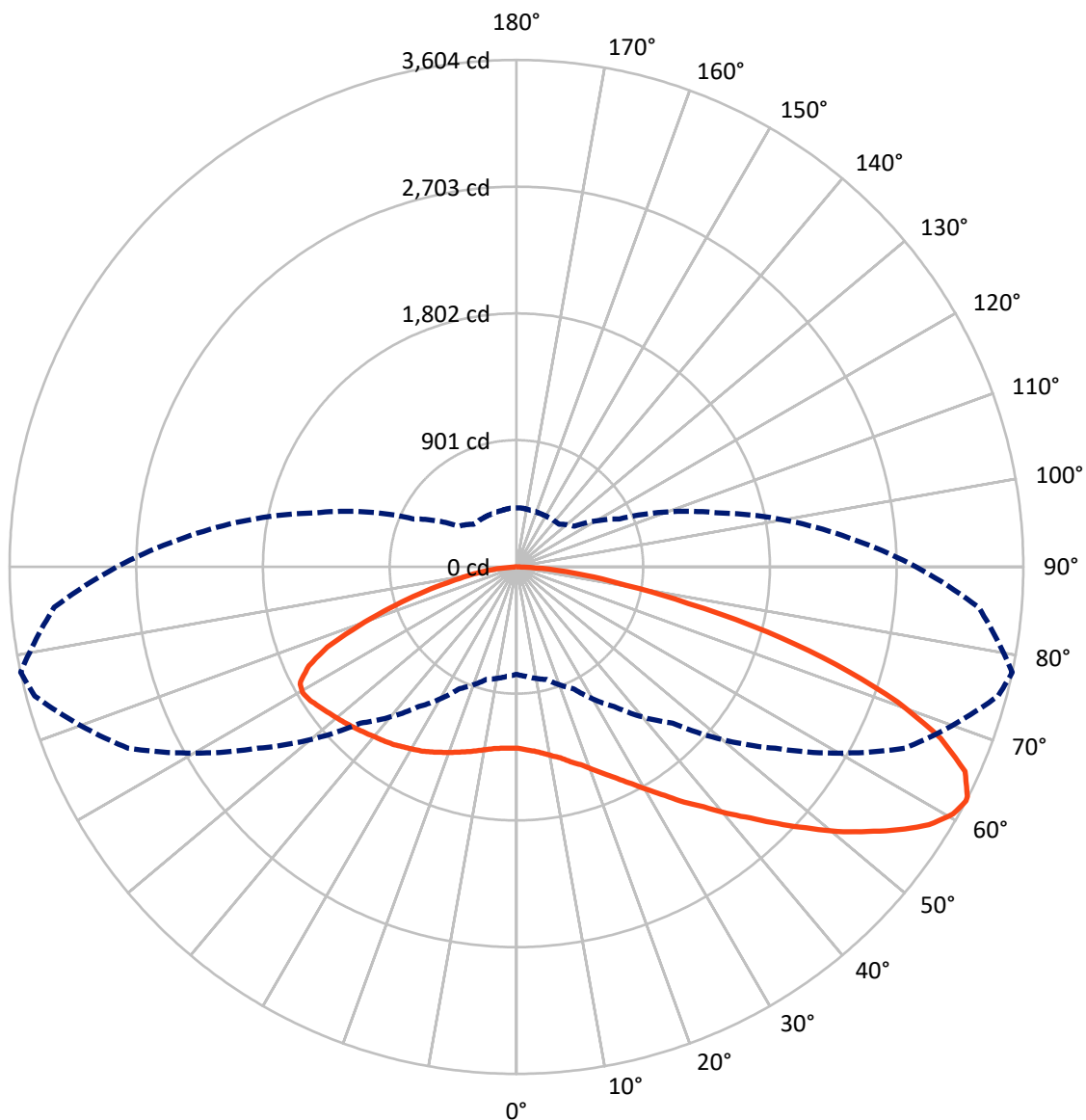


Based on 10 foot mounting height. Maximum calculated value = 19.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical

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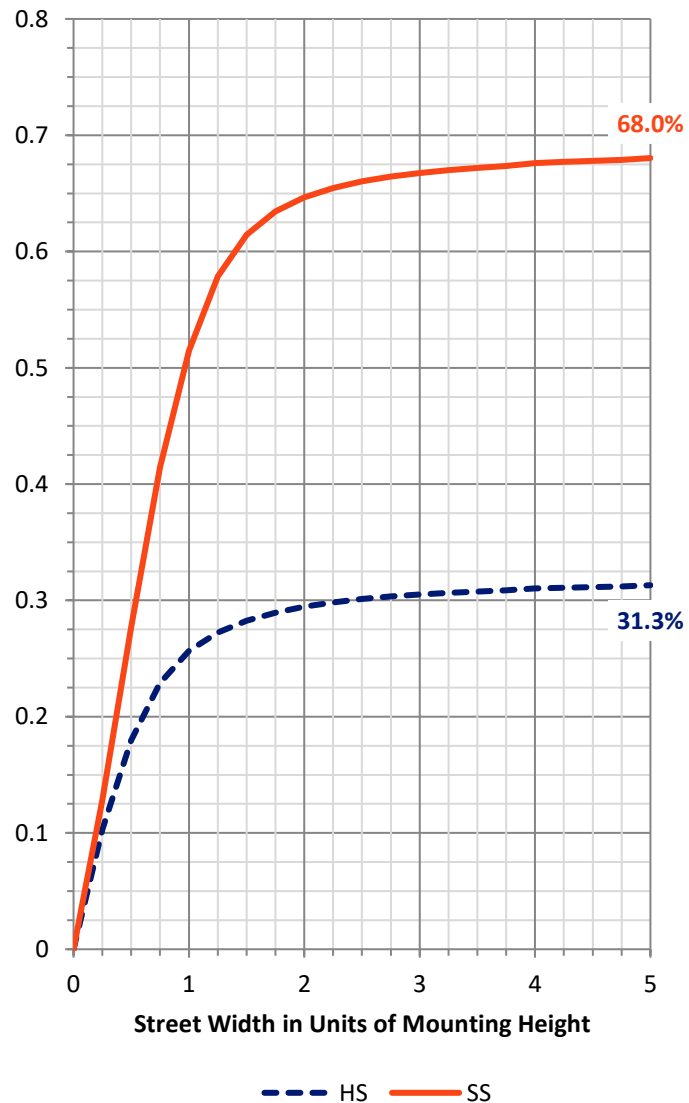
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2397.8	0.0	2397.8
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	5169.5	0.0	5169.5
	% Fixture	68.3	0.0	68.3
Total	Lumens	7567.3	0.0	7567.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	1.7
10°-20°	426.7	5.6
20°-30°	811.4	10.7
30°-40°	1223.5	16.2
40°-50°	1482.8	19.6
50°-60°	1467.6	19.4
60°-70°	1219.6	16.1
70°-80°	656.0	8.7
80°-90°	151.8	2.0
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°	7567.3	100.0
0°-180°	7567.3	100.0

Coefficient of Utilization



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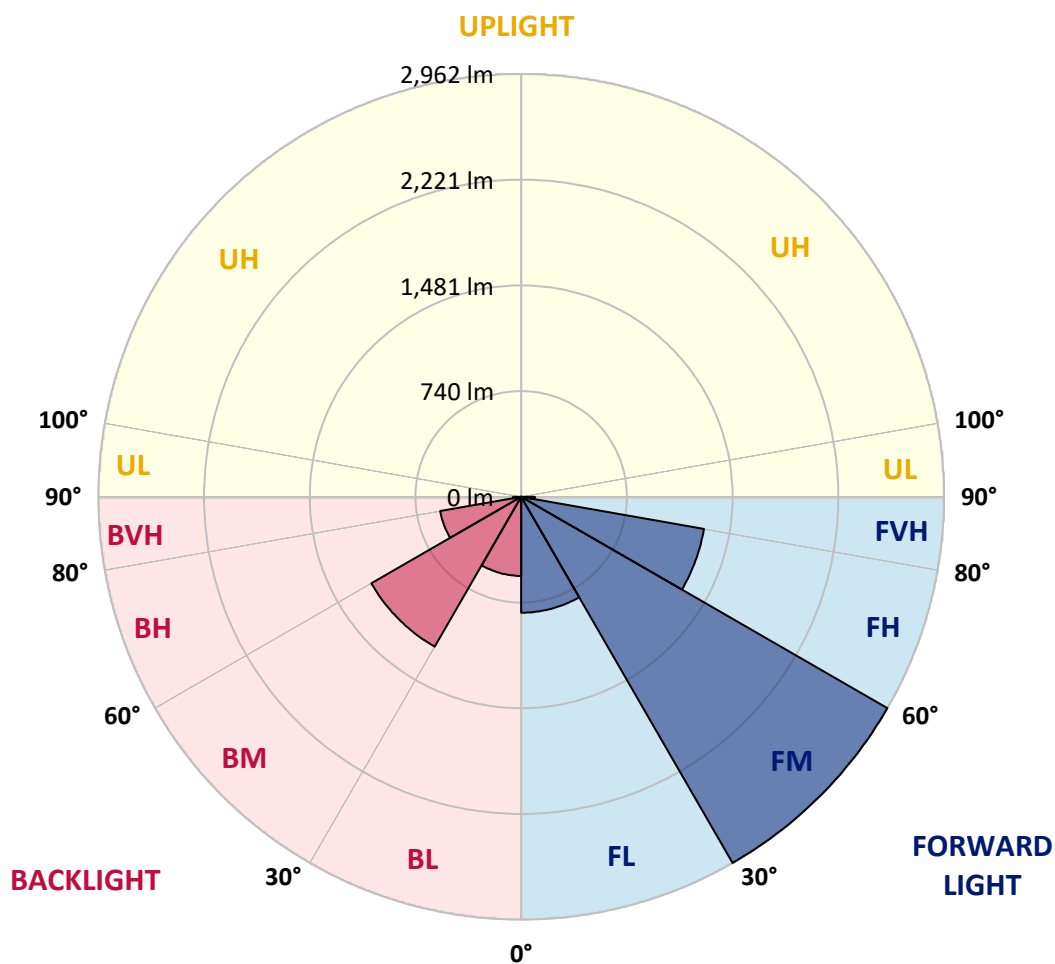
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	812.1	10.7			
FM	(30°-60°)	2961.9	39.1			
FH	(60°-80°)	1300.1	17.2			G1/1800
FVH	(80°-90°)	95.5	1.3			G1/100
BL	(0°-30°)	554.0	7.3	B2/1000		
BM	(30°-60°)	1212.0	16.0	B2/2500		
BH	(60°-80°)	575.5	7.6	B2/1000		G2/1000
BVH	(80°-90°)	56.3	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7
2.5°	1324.4	1323.7	1325.1	1324.4	1319.9	1315.7	1311.8	1303.4	1300.9	1300.9	1291.4
5°	1380.6	1387.3	1385.5	1373.6	1363.0	1353.2	1343.0	1327.6	1319.2	1315.3	1301.3
7.5°	1475.4	1471.9	1467.3	1451.5	1434.0	1409.7	1386.6	1362.0	1339.5	1336.4	1318.1
10°	1588.1	1582.8	1571.2	1550.1	1518.5	1484.1	1444.1	1406.6	1369.7	1364.1	1340.2
12.5°	1715.8	1725.0	1706.3	1668.8	1625.6	1570.5	1516.8	1457.5	1408.3	1392.9	1369.0
15°	1884.7	1877.3	1862.6	1812.0	1743.9	1673.4	1595.4	1515.7	1449.4	1437.1	1398.8
17.5°	2059.5	2043.7	2022.6	1965.1	1883.6	1780.8	1688.1	1584.9	1501.0	1477.8	1432.9
20°	2248.0	2248.7	2206.9	2140.9	2040.5	1913.5	1791.6	1665.3	1561.4	1534.0	1475.7
22.5°	2443.2	2446.3	2400.7	2322.1	2211.5	2067.6	1912.8	1763.2	1629.8	1596.8	1519.3
25°	2642.2	2642.9	2600.1	2515.5	2383.5	2227.6	2049.0	1868.2	1709.2	1666.3	1574.0
27.5°	2821.6	2828.2	2784.7	2693.1	2557.2	2389.8	2187.6	1985.8	1792.7	1745.3	1631.2
30°	2965.5	2962.3	2927.2	2845.8	2712.4	2537.2	2340.7	2114.2	1894.5	1836.9	1699.3
32.5°	3073.3	3071.5	3031.5	2953.6	2835.6	2684.0	2489.1	2245.5	2008.6	1937.3	1771.6
35°	3130.5	3132.6	3101.3	3029.0	2934.6	2798.4	2636.2	2407.7	2117.8	2053.5	1861.9
37.5°	3165.6	3169.1	3121.0	3063.1	2984.8	2889.7	2768.6	2553.4	2255.7	2164.4	1946.1
40°	3122.0	3126.6	3094.7	3027.3	2990.4	2939.2	2872.8	2707.1	2399.3	2302.4	2038.8
42.5°	2973.6	2977.4	2980.2	2944.1	2939.5	2945.1	2943.7	2836.0	2547.8	2439.6	2147.6
45°	2775.2	2781.2	2809.6	2820.5	2848.9	2909.3	2970.4	2957.8	2716.3	2602.5	2270.8
47.5°	2530.9	2559.0	2594.8	2662.2	2740.1	2838.1	2952.1	3052.9	2882.3	2772.8	2400.7
50°	2160.9	2185.5	2302.4	2440.4	2580.4	2750.3	2899.1	3107.7	3051.1	2956.7	2556.5
52.5°	1776.6	1798.3	1935.2	2163.0	2367.3	2618.0	2824.0	3120.6	3210.9	3125.2	2717.7
55°	1432.9	1457.1	1575.1	1809.2	2097.0	2412.3	2737.3	3104.1	3349.5	3299.0	2901.6
57.5°	1134.9	1142.2	1243.7	1450.1	1796.2	2154.6	2615.9	3081.3	3462.5	3458.7	3069.7
60°	894.1	906.7	991.3	1166.1	1450.1	1848.5	2447.7	3065.9	3530.3	3567.2	3223.5
62°	763.8	781.7	828.8	954.1	1212.5	1570.5	2248.0	3048.3	3545.4	3604.0	3299.0
62.5°	741.7	747.3	798.9	919.0	1152.4	1515.0	2201.3	3045.2	3541.2	3598.7	3305.6
65°	624.8	629.4	666.3	737.2	910.9	1198.1	1882.2	2963.7	3448.9	3504.7	3259.3
67.5°	535.0	540.9	561.6	615.7	725.6	959.4	1562.4	2726.4	3246.7	3253.7	3070.1
70°	456.7	457.4	484.1	515.3	593.2	753.0	1219.1	2348.4	2913.9	2873.9	2707.8
72.5°	379.5	384.4	407.5	440.5	484.1	600.6	932.3	1915.6	2445.6	2377.9	2208.3
75°	314.9	315.6	333.1	360.5	399.1	477.7	714.0	1417.5	1884.3	1844.0	1646.3
77.5°	257.7	264.3	274.5	297.0	318.0	382.6	537.1	1016.2	1298.1	1247.9	1078.4
80°	206.8	213.1	224.3	235.5	247.8	281.9	410.0	700.7	860.0	791.2	670.8
82.5°	160.1	164.3	172.0	182.5	186.4	206.1	282.9	471.1	529.0	499.5	381.9
85°	101.1	102.5	103.6	112.3	122.2	133.0	168.5	247.8	289.6	269.2	176.9
87.5°	30.5	26.7	33.7	39.7	39.7	38.3	47.0	64.9	63.9	54.8	31.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7
2.5°	1291.1	1292.5	1288.6	1284.8	1279.8	1280.9	1277.0	1278.4	1276.3	1272.8	1271.8
5°	1300.2	1296.3	1290.4	1286.2	1282.0	1282.3	1276.3	1278.1	1277.0	1274.6	1271.4
7.5°	1313.2	1306.5	1299.2	1294.9	1289.0	1288.6	1284.4	1282.7	1281.6	1279.8	1279.1
10°	1331.8	1322.3	1314.6	1307.6	1300.6	1299.9	1293.5	1292.5	1290.7	1290.4	1287.6
12.5°	1356.4	1343.4	1332.2	1323.0	1313.9	1311.8	1305.1	1300.6	1298.1	1296.0	1294.2
15°	1382.4	1366.2	1351.8	1337.4	1326.9	1320.2	1309.0	1303.0	1299.2	1294.6	1294.2
17.5°	1410.8	1391.8	1369.7	1350.4	1335.0	1323.0	1308.3	1299.5	1294.2	1289.3	1287.6
20°	1446.2	1420.6	1389.7	1363.7	1340.6	1322.0	1302.7	1288.3	1276.7	1270.4	1268.6
22.5°	1481.7	1450.4	1409.0	1374.3	1342.3	1317.1	1288.3	1267.2	1252.8	1244.7	1243.3
25°	1523.8	1485.2	1429.4	1381.6	1338.8	1305.1	1268.3	1242.6	1225.8	1215.3	1216.0
27.5°	1570.5	1521.0	1448.0	1382.0	1330.4	1284.1	1243.0	1211.0	1195.3	1181.2	1181.9
30°	1621.8	1558.9	1460.3	1379.9	1311.8	1256.7	1207.5	1173.1	1153.5	1136.6	1135.9
32.5°	1679.7	1598.2	1471.9	1376.0	1290.7	1223.0	1166.8	1128.9	1103.3	1088.5	1087.1
35°	1741.5	1643.5	1486.6	1367.6	1264.8	1182.3	1122.2	1074.5	1050.3	1026.1	1025.0
37.5°	1805.3	1682.8	1496.4	1351.1	1226.8	1131.7	1061.2	1009.9	966.4	947.4	945.3
40°	1878.7	1730.2	1501.7	1328.3	1178.1	1071.0	998.3	927.8	885.3	863.9	861.4
42.5°	1952.8	1781.5	1510.5	1300.6	1121.2	1002.5	906.7	840.7	805.3	778.9	782.4
45°	2045.1	1839.4	1519.6	1265.5	1055.2	917.6	818.9	755.1	722.8	703.1	702.8
47.5°	2143.0	1899.1	1528.0	1222.3	983.6	832.6	735.1	678.2	653.6	639.9	637.5
50°	2244.1	1967.2	1533.6	1168.6	903.2	738.2	656.4	613.6	590.1	579.9	576.7
52.5°	2368.7	2043.0	1536.8	1112.1	814.7	657.5	592.5	558.8	543.0	533.6	534.6
55°	2493.4	2125.1	1539.6	1043.3	728.0	579.9	537.8	514.3	507.6	503.7	502.0
57.5°	2636.2	2224.8	1541.0	970.9	645.5	517.8	492.1	476.3	470.0	476.3	478.5
60°	2767.2	2315.7	1526.3	886.0	567.3	465.8	450.4	440.9	439.8	443.0	444.8
62°	2841.2	2372.6	1482.7	807.7	504.1	429.7	420.5	415.6	414.2	419.8	419.1
62.5°	2853.2	2378.9	1465.9	783.5	493.2	423.0	413.9	407.2	407.5	413.5	412.1
65°	2845.1	2356.1	1326.9	668.7	429.7	381.9	377.4	373.1	374.2	380.5	379.8
67.5°	2695.2	2206.6	1140.5	556.4	377.0	346.5	341.6	338.4	344.7	351.0	354.5
70°	2395.1	1899.4	897.9	458.1	329.6	308.9	307.9	304.7	315.6	318.7	321.5
72.5°	1958.7	1528.0	694.3	377.0	287.1	270.6	270.6	274.9	278.0	283.3	284.0
75°	1446.9	1152.4	530.8	314.2	247.1	234.8	235.5	238.0	235.9	234.8	235.9
77.5°	953.0	754.0	397.4	257.7	212.0	199.4	196.6	198.3	206.4	219.0	220.1
80°	575.7	485.1	294.2	210.3	173.4	157.6	160.8	168.1	202.9	214.8	215.9
82.5°	335.9	298.0	221.5	163.9	133.4	118.3	124.6	161.5	181.8	117.2	130.2
85°	154.5	143.9	134.1	100.4	80.4	74.1	89.9	139.7	123.2	54.1	41.8
87.5°	27.4	28.1	27.7	21.8	15.8	14.7	30.5	39.7	24.9	6.3	4.2
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)