

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: P1461790

Luminaire Tested: USSL-70-8540-U-T3RE

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461790
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-70-8540-U-T3RE
Description: USSL DISCRETE LED 1 SQUARE 70W 85CRI 4000k FIXTURE w/ TYPE III ROADWAY
ILLUMINANCE DISTRIBUTION OPTIC
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10258.4 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

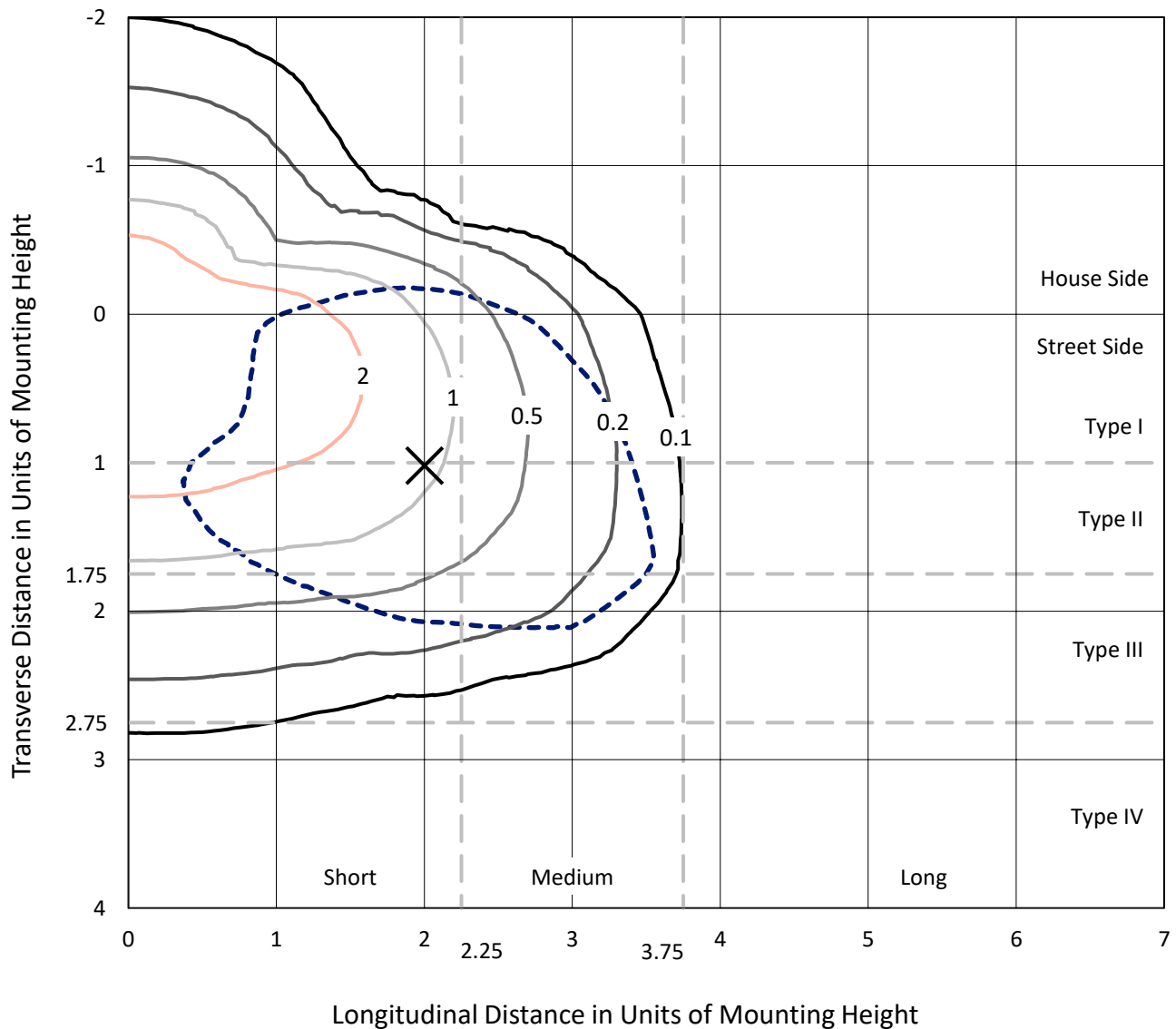
Input Watts (W): 73
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.73%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

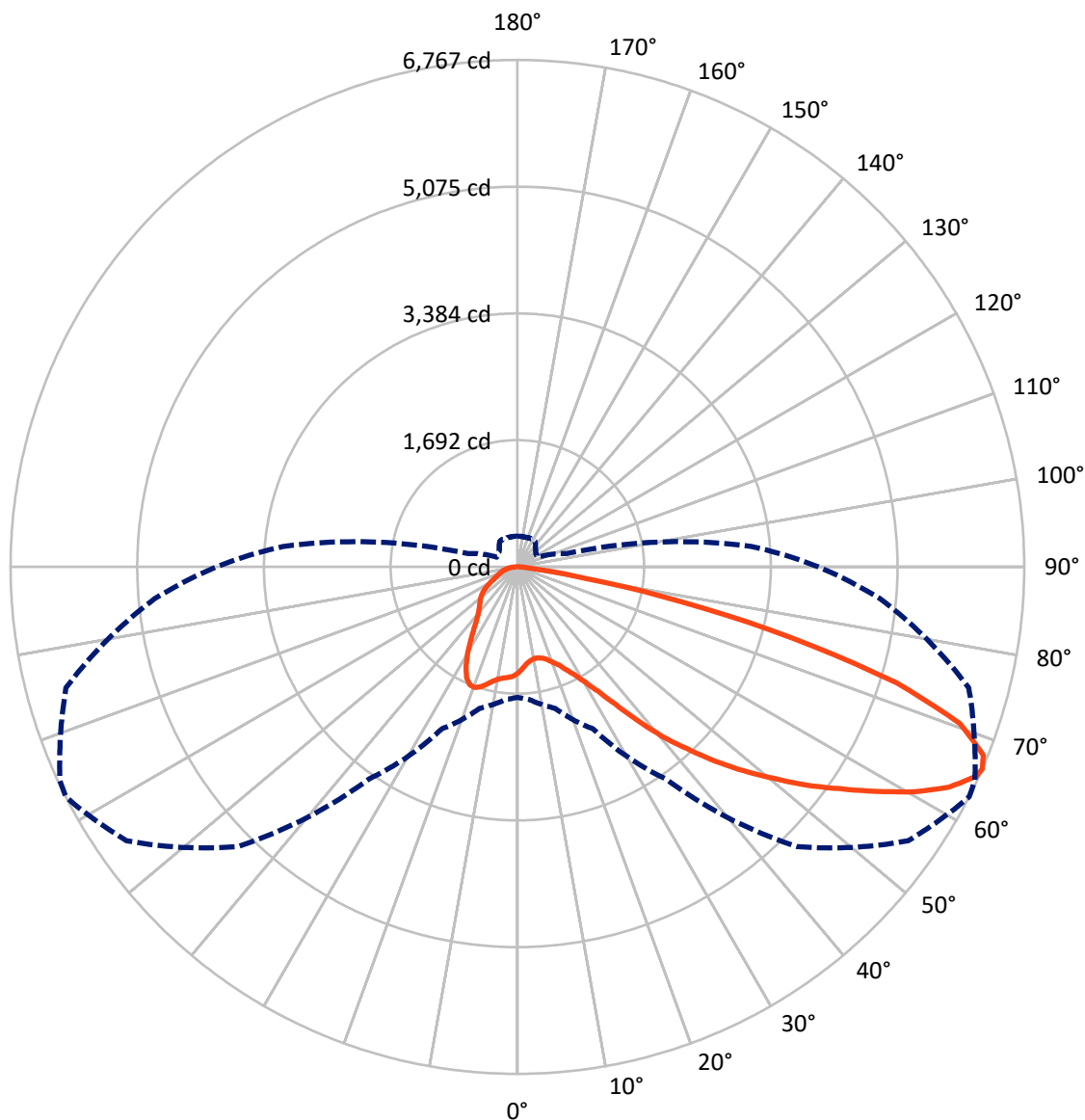


Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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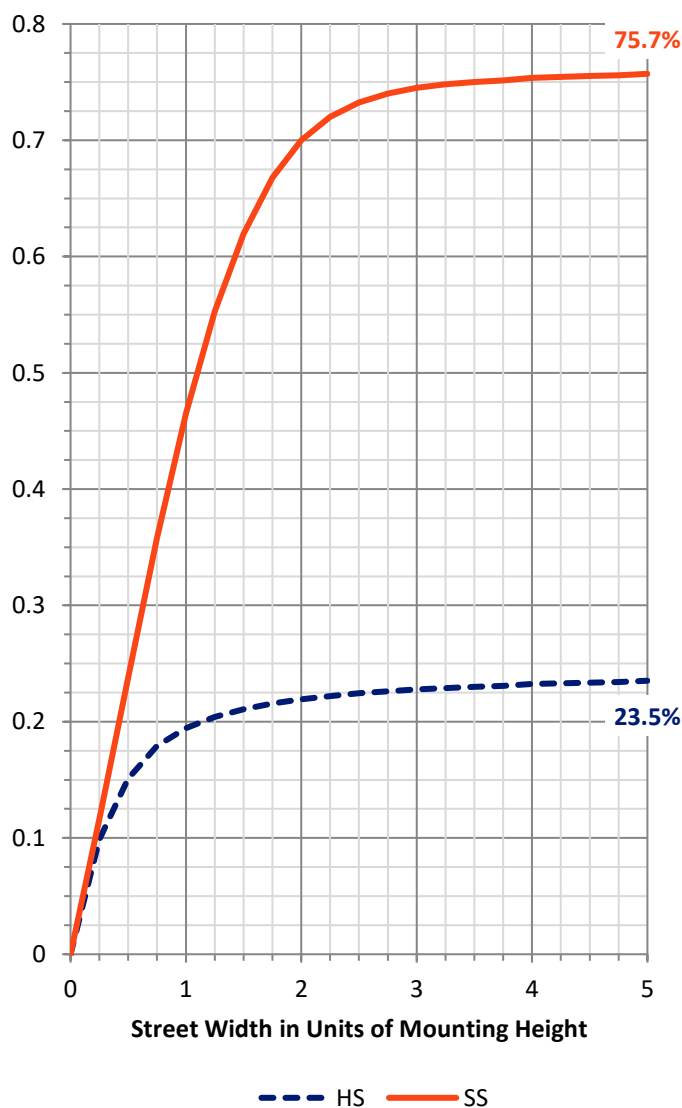
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2453.8	0.0	2453.8
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	7804.5	0.0	7804.5
	% Fixture	76.1	0.0	76.1
Total	Lumens	10258.4	0.0	10258.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	1.3
10°-20°	411.9	4.0
20°-30°	733.8	7.2
30°-40°	1155.3	11.3
40°-50°	1734.9	16.9
50°-60°	2329.1	22.7
60°-70°	2499.1	24.4
70°-80°	1124.4	11.0
80°-90°	138.5	1.3
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°	10258.4	100.0
0°-180°	10258.4	100.0

Coefficient of Utilization



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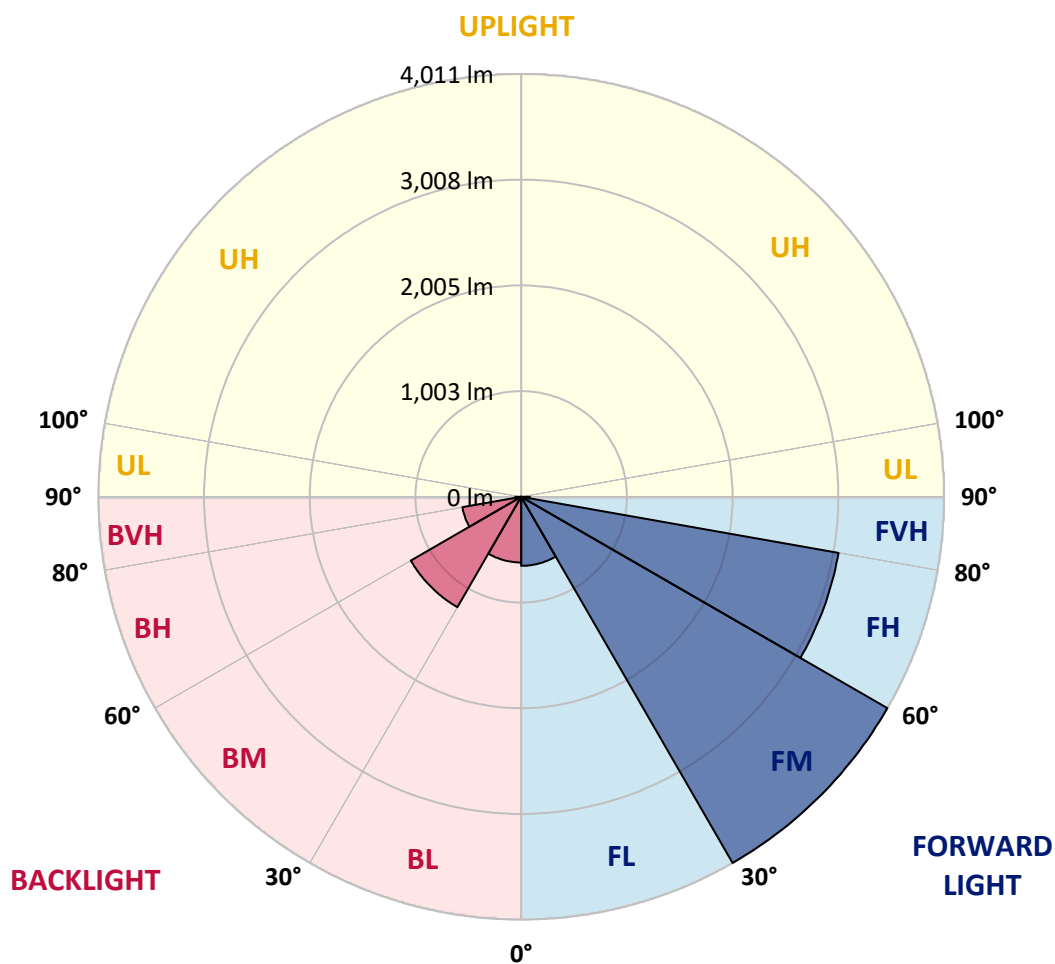
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	654.5	6.4			
FM	(30°-60°)	4010.6	39.1			
FH	(60°-80°)	3057.0	29.8			G2/5000
FVH	(80°-90°)	82.4	0.8			G1/100
BL	(0°-30°)	622.6	6.1	B2/1000		
BM	(30°-60°)	1208.7	11.8	B2/2500		
BH	(60°-80°)	566.5	5.5	B2/1000		G2/1000
BVH	(80°-90°)	56.0	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1414.3	1414.3	1414.3	1414.3	1414.3	1414.3	1414.3	1414.3	1414.3	1414.3	1414.3
2.5°	1268.0	1271.0	1275.3	1281.6	1291.8	1310.7	1335.3	1356.2	1360.5	1386.7	1404.6
5°	1168.8	1172.2	1175.6	1184.3	1202.2	1224.0	1261.3	1299.0	1309.2	1363.4	1411.4
7.5°	1145.6	1146.5	1148.0	1150.4	1161.0	1179.0	1216.7	1262.7	1273.4	1350.4	1428.3
10°	1172.7	1173.2	1172.7	1169.8	1167.3	1174.1	1199.8	1242.4	1257.4	1350.4	1456.9
12.5°	1228.3	1233.2	1229.3	1219.1	1205.1	1200.7	1212.9	1244.8	1258.9	1365.9	1497.5
15°	1306.8	1311.6	1302.4	1287.4	1266.6	1248.2	1244.8	1265.6	1277.7	1389.6	1552.7
17.5°	1402.6	1400.7	1390.1	1369.7	1341.2	1311.6	1294.7	1302.9	1312.1	1425.4	1613.3
20°	1517.9	1525.1	1502.9	1472.9	1439.4	1394.4	1357.1	1360.5	1363.4	1472.9	1685.9
22.5°	1708.2	1716.9	1674.8	1617.6	1555.6	1494.2	1446.7	1422.5	1431.2	1527.6	1760.9
25°	1896.5	1898.0	1867.0	1811.3	1719.3	1621.0	1549.4	1520.8	1519.3	1607.5	1863.6
27.5°	2094.0	2081.0	2045.6	1985.6	1898.9	1785.6	1677.2	1634.1	1629.7	1719.3	1977.8
30°	2276.1	2269.3	2234.5	2170.5	2070.8	1963.8	1837.9	1783.2	1778.4	1883.9	2140.0
32.5°	2445.1	2447.0	2414.1	2346.8	2265.9	2156.5	2031.1	1979.3	1973.5	2121.2	2344.4
35°	2579.7	2575.3	2555.5	2528.8	2463.5	2366.6	2251.4	2250.4	2264.0	2456.2	2607.3
37.5°	2711.9	2708.9	2678.0	2661.5	2666.3	2581.1	2534.2	2588.4	2617.0	2816.9	2906.0
40°	2929.7	2913.8	2874.1	2826.1	2831.9	2792.2	2809.7	2968.5	3020.3	3220.2	3220.2
42.5°	3093.4	3087.1	3080.3	3061.9	3036.2	3004.3	3105.0	3316.6	3366.9	3569.8	3491.9
45°	3154.9	3163.6	3205.2	3279.3	3274.5	3229.0	3426.0	3696.7	3741.7	3925.2	3763.5
47.5°	3208.1	3217.8	3268.7	3421.2	3501.1	3509.8	3773.2	4067.5	4120.3	4299.5	4014.8
50°	3207.6	3228.0	3329.2	3502.5	3654.1	3785.7	4142.6	4441.8	4495.1	4649.5	4233.1
52.5°	3138.9	3152.9	3324.8	3568.8	3774.6	4067.1	4526.5	4838.8	4863.0	4981.2	4423.4
55°	3062.4	3074.5	3253.6	3583.8	3901.5	4376.9	4924.5	5227.6	5265.9	5321.5	4616.6
57.5°	2973.3	2992.7	3170.8	3538.3	4008.5	4682.4	5332.2	5650.3	5668.7	5649.8	4830.1
60°	2865.8	2873.6	3045.9	3421.7	4069.5	4998.1	5727.8	6094.8	6098.6	5976.6	5004.9
62.5°	2484.3	2492.5	2695.4	3179.1	4025.9	5238.8	6071.5	6471.5	6463.7	6223.6	5087.2
65°	1906.7	1941.1	2145.9	2647.0	3692.3	5344.3	6338.8	6734.8	6706.8	6282.6	4974.4
66°	1740.6	1775.5	1954.1	2383.1	3456.5	5277.5	6372.2	6767.3	6740.2	6239.5	4859.6
67.5°	1557.6	1563.9	1709.1	2035.0	2963.6	4967.6	6260.4	6711.1	6680.6	6049.3	4588.5
70°	1134.9	1164.9	1294.7	1543.5	2090.7	3986.7	5646.9	6267.1	6222.6	5394.7	3901.5
72.5°	745.1	757.2	814.4	926.7	1331.5	2680.9	4662.1	5293.5	5334.1	4305.3	2905.0
75°	519.5	512.7	488.5	499.7	665.7	1307.8	3263.8	3779.5	3831.3	2786.4	1717.8
77.5°	427.5	418.8	379.1	332.6	340.9	486.6	1728.0	2234.0	2193.3	1365.9	775.6
80°	368.9	360.7	318.1	276.5	251.3	232.4	544.2	909.8	842.9	458.5	268.7
82.5°	294.9	290.5	271.6	232.4	203.8	168.0	169.9	236.8	253.2	170.9	118.1
85°	179.1	177.2	178.7	184.0	145.3	123.0	101.2	106.5	103.6	85.7	73.6
87.5°	92.5	85.7	92.0	109.9	86.2	56.6	42.6	44.1	46.5	44.1	37.8
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°	1414.3	1414.3	1414.3	1414.3	1414.3	1414.3	1414.3	1414.3	1414.3	1414.3	1414.3
2.5°	1416.7	1427.3	1444.3	1455.4	1462.7	1467.0	1466.6	1466.1	1464.6	1461.2	1463.2
5°	1432.2	1450.6	1472.4	1479.1	1477.7	1475.3	1471.4	1470.4	1471.9	1469.0	1469.0
7.5°	1458.3	1478.7	1499.0	1495.1	1488.3	1495.6	1507.2	1523.2	1532.9	1538.7	1546.4
10°	1493.2	1520.8	1527.6	1515.9	1523.7	1552.3	1578.4	1596.3	1607.0	1612.3	1617.6
12.5°	1545.5	1569.2	1556.1	1550.8	1584.7	1620.5	1627.8	1614.7	1600.7	1592.4	1592.9
15°	1603.6	1619.1	1592.4	1607.9	1650.1	1646.7	1596.3	1542.6	1503.8	1487.4	1489.3
17.5°	1665.6	1668.5	1633.6	1670.9	1674.8	1596.8	1496.1	1420.6	1395.4	1386.2	1387.2
20°	1738.2	1725.1	1688.8	1725.1	1643.3	1487.9	1378.0	1332.9	1321.8	1326.2	1327.1
22.5°	1803.1	1773.0	1746.9	1737.2	1541.6	1360.0	1289.4	1272.9	1276.3	1284.0	1292.3
25°	1881.0	1826.8	1802.6	1686.9	1408.0	1259.3	1228.3	1230.3	1230.8	1237.5	1243.8
27.5°	1967.7	1888.3	1840.3	1570.2	1266.1	1187.2	1178.5	1179.9	1175.1	1175.1	1180.9
30°	2071.8	1961.9	1846.6	1412.3	1137.8	1122.3	1121.8	1111.7	1091.8	1087.0	1090.4
32.5°	2216.5	2071.8	1819.0	1225.9	1045.8	1059.4	1054.0	1027.4	1000.3	994.0	1001.3
35°	2430.5	2232.0	1764.3	1054.5	965.9	991.1	984.8	949.9	909.8	894.3	896.2
37.5°	2649.9	2430.1	1695.1	913.2	893.8	929.6	915.1	868.6	826.0	797.4	801.3
40°	2879.9	2630.0	1613.7	822.1	831.3	864.2	851.7	794.5	739.3	714.2	725.8
42.5°	3106.0	2821.3	1526.6	762.6	772.3	805.2	792.1	732.1	690.9	664.3	668.6
45°	3308.8	2972.8	1447.7	718.0	721.4	747.1	727.7	693.3	651.7	628.9	627.5
47.5°	3489.9	3085.6	1398.3	682.2	671.1	678.8	675.9	651.7	620.7	599.4	597.5
50°	3645.3	3170.8	1389.6	649.8	616.8	602.8	615.9	608.6	584.4	568.9	567.5
52.5°	3770.7	3248.8	1427.3	616.8	548.6	541.8	561.2	563.1	544.7	537.9	538.4
55°	3922.3	3345.2	1503.8	570.8	488.0	489.0	514.7	516.6	506.0	506.9	508.9
57.5°	4087.9	3454.1	1567.3	510.8	432.4	440.1	474.5	477.9	467.7	471.6	473.0
60°	4227.8	3552.9	1492.7	436.2	382.5	402.3	446.4	444.5	438.7	448.3	450.8
62.5°	4268.5	3527.7	1225.0	371.4	343.3	372.8	426.6	427.0	438.2	455.1	458.0
65°	4124.7	3286.6	835.2	323.4	311.8	347.2	414.9	431.9	427.0	424.6	427.5
66°	4017.2	3135.5	682.2	307.0	300.2	339.9	412.0	418.8	410.1	409.6	409.6
67.5°	3774.6	2821.8	498.2	285.7	287.1	328.3	394.6	388.8	397.0	404.8	407.7
70°	3200.4	2155.1	315.2	252.7	264.4	297.8	352.5	375.2	390.2	399.4	405.7
72.5°	2372.0	1391.0	224.7	223.2	240.1	267.3	323.9	357.3	369.9	409.1	420.3
75°	1453.5	773.2	188.8	198.5	205.8	242.6	292.9	337.5	334.6	346.2	349.1
77.5°	628.0	347.6	161.2	171.9	175.8	205.3	261.0	306.5	306.0	318.6	323.9
80°	215.0	157.8	138.0	139.9	152.5	173.3	222.7	265.8	266.3	271.6	265.8
82.5°	114.3	107.5	110.9	114.7	130.2	141.4	184.0	230.0	212.1	150.6	148.2
85°	72.1	64.4	73.1	86.2	95.4	102.6	140.4	173.3	151.1	66.3	59.1
87.5°	29.1	29.1	33.9	45.5	41.2	44.5	75.0	98.3	80.4	26.6	14.0
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)