

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: P1461997

Luminaire Tested: USSL-50-8540-U-T2RE

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461997
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-50-8540-U-T2RE
Description: USSL DISCRETE LED 1 SQUARE 50W 85CRI 4000k FIXTURE w/ TYPE II ROADWAY
ILLUMINANCE DISTRIBUTION OPTIC
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7567.4 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: B1 - U0 - G1

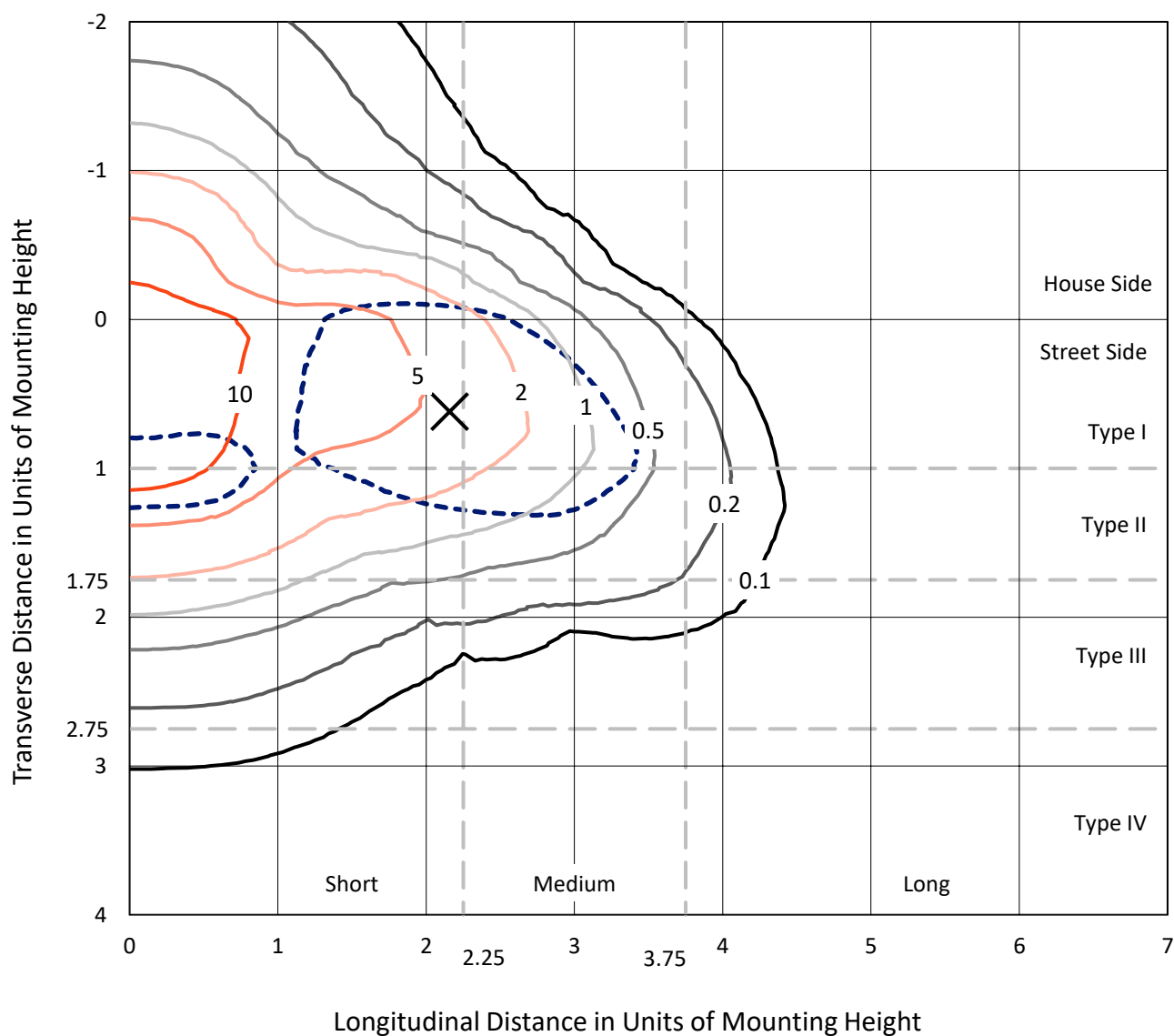
Input Watts (W): 52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 3.35%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

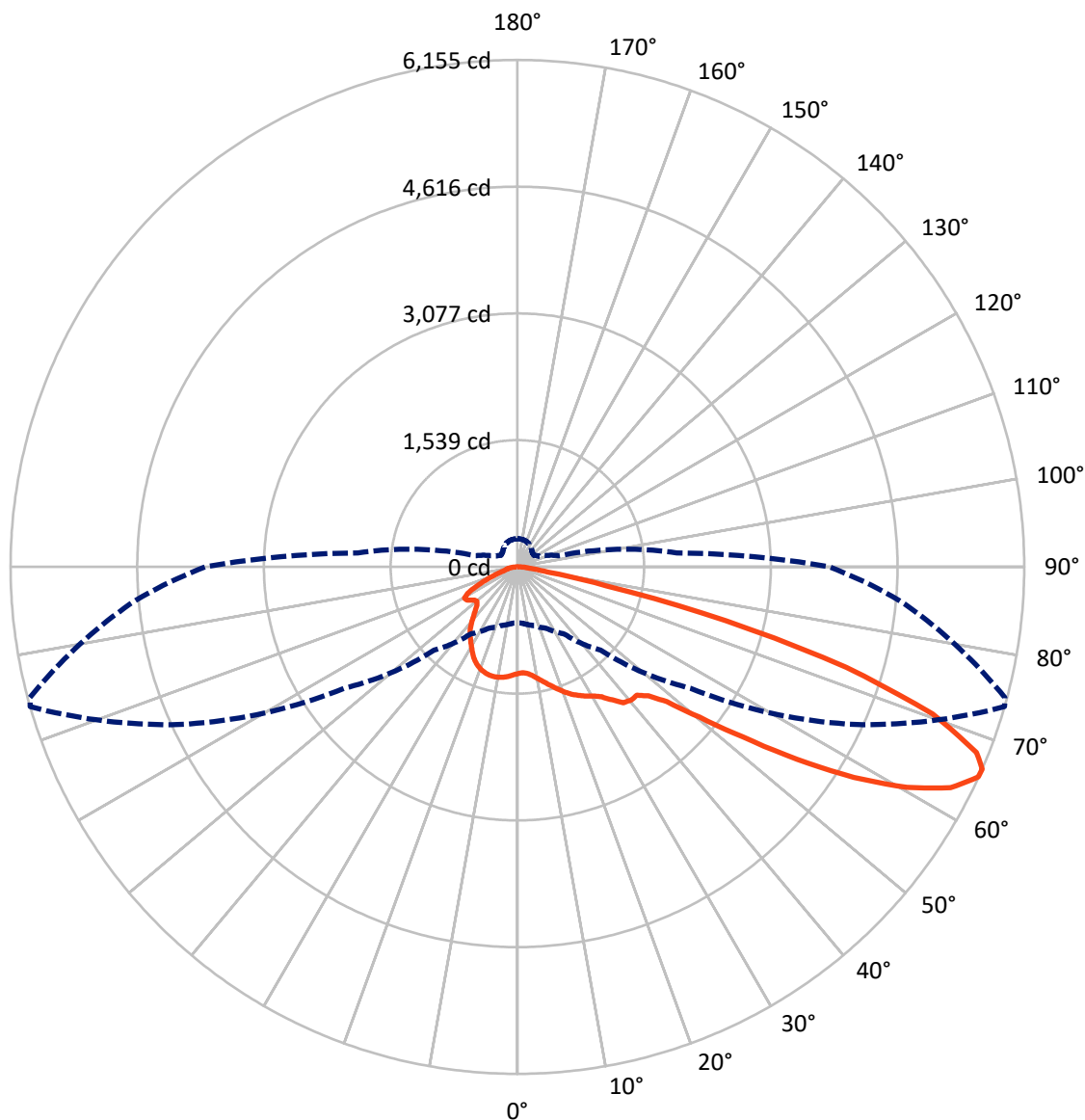


Based on 10 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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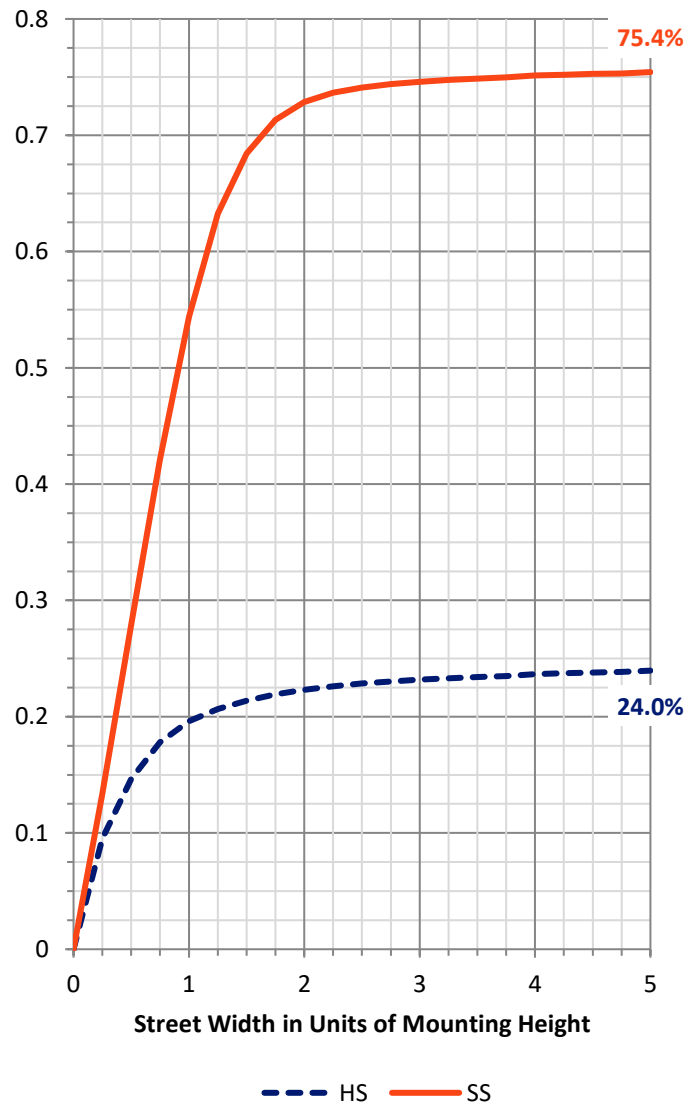
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1841.9	0.0	1841.9
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	5725.5	0.0	5725.5
	% Fixture	75.7	0.0	75.7
Total	Lumens	7567.4	0.0	7567.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	1.6
10°-20°	376.2	5.0
20°-30°	701.0	9.3
30°-40°	1051.6	13.9
40°-50°	1385.9	18.3
50°-60°	1689.3	22.3
60°-70°	1544.0	20.4
70°-80°	603.5	8.0
80°-90°	94.0	1.2
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°	7567.4	100.0
0°-180°	7567.4	100.0

Coefficient of Utilization



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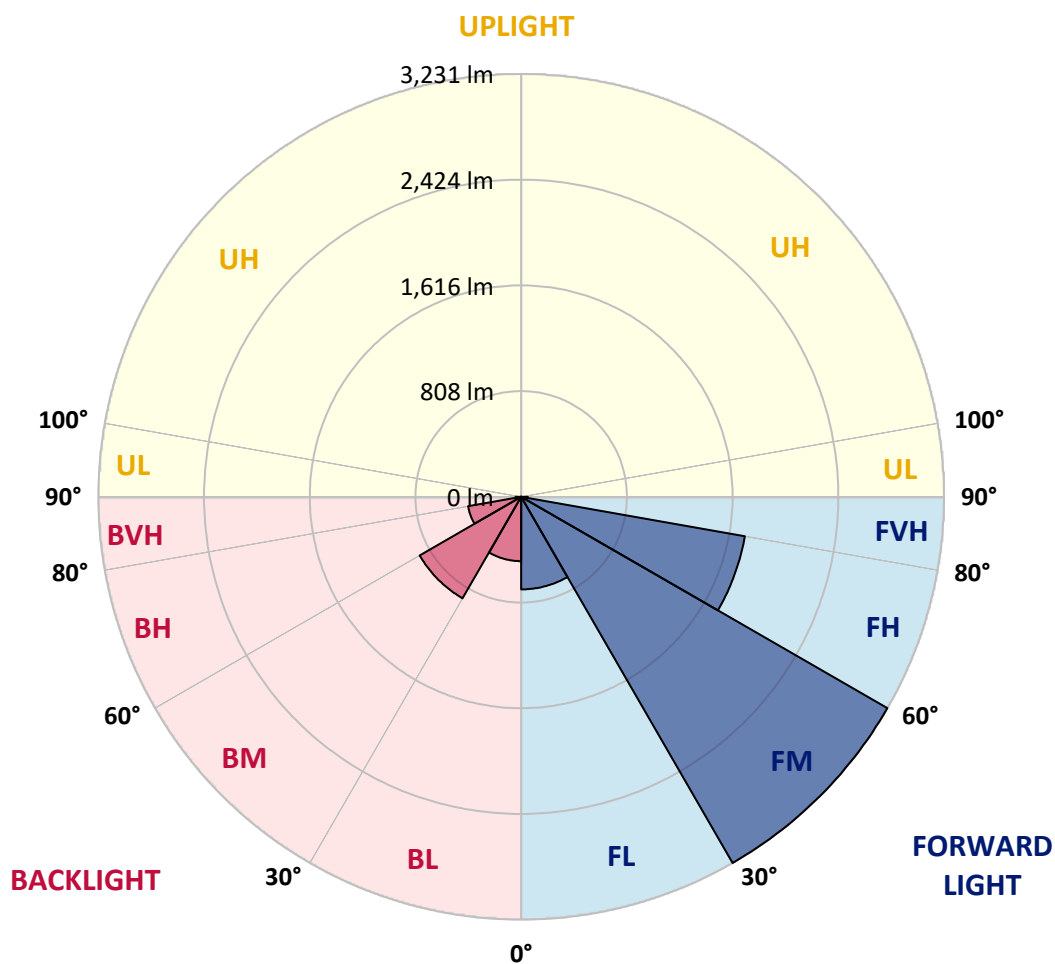
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	707.4	9.3			
FM	(30°-60°)	3231.4	42.7			
FH	(60°-80°)	1735.8	22.9			G1/1800
FVH	(80°-90°)	50.8	0.7			G1/100
BL	(0°-30°)	491.6	6.5	B1/500		
BM	(30°-60°)	895.5	11.8	B1/1000		
BH	(60°-80°)	411.7	5.4	B1/500		G1/500
BVH	(80°-90°)	43.1	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1294.4	1294.4	1294.4	1294.4	1294.4	1294.4	1294.4	1294.4	1294.4	1294.4	1294.4
2.5°	1282.1	1281.4	1278.6	1279.7	1281.1	1281.8	1284.6	1282.8	1285.6	1289.5	1292.3
5°	1244.9	1245.6	1249.8	1259.0	1275.8	1290.6	1301.4	1302.5	1300.0	1304.6	1306.7
7.5°	1188.4	1185.6	1194.7	1210.9	1232.6	1265.6	1306.3	1330.2	1332.0	1336.2	1337.9
10°	1209.1	1209.8	1208.1	1203.5	1214.7	1244.9	1297.9	1352.3	1379.4	1383.9	1385.0
12.5°	1329.5	1327.4	1314.4	1295.8	1279.7	1269.1	1305.3	1373.7	1432.3	1435.9	1446.7
15°	1481.5	1467.1	1459.0	1434.5	1398.0	1357.6	1345.7	1407.1	1490.3	1500.4	1520.8
17.5°	1622.6	1614.2	1605.7	1577.3	1528.2	1477.3	1426.0	1451.7	1554.8	1568.9	1598.7
20°	1769.3	1767.2	1756.0	1730.3	1679.1	1608.9	1528.2	1513.1	1617.3	1634.5	1684.0
22.5°	1919.5	1920.6	1909.3	1876.3	1834.6	1748.2	1642.6	1577.7	1678.0	1700.5	1763.3
25°	2058.1	2055.7	2039.2	2026.9	1988.7	1900.9	1774.6	1652.8	1728.6	1752.8	1836.3
27.5°	2164.5	2155.4	2172.9	2167.7	2130.4	2043.4	1899.2	1735.6	1776.3	1804.7	1899.9
30°	2284.5	2276.5	2295.4	2311.6	2272.9	2186.3	2020.6	1805.4	1817.7	1850.4	1959.9
32.5°	2452.6	2449.5	2447.7	2459.7	2430.9	2324.5	2143.1	1904.4	1880.2	1912.1	2020.6
35°	2688.2	2677.6	2643.2	2622.5	2592.0	2459.3	2282.4	2039.2	1982.7	2015.7	2089.7
37.5°	2943.3	2938.4	2875.2	2799.1	2718.0	2577.9	2412.3	2172.2	2092.5	2121.3	2144.5
40°	3226.2	3189.0	3136.0	3019.5	2855.9	2649.9	2432.6	2158.5	2125.2	2161.7	2155.0
42.5°	3463.1	3413.6	3354.3	3238.5	2996.3	2734.1	2461.4	2156.1	2130.1	2171.9	2138.5
45°	3647.4	3624.2	3531.6	3412.9	3140.2	2811.7	2539.3	2252.9	2232.2	2276.5	2173.3
47.5°	3678.3	3653.7	3622.5	3536.8	3238.1	2899.8	2647.4	2438.3	2443.5	2504.6	2314.0
50°	3400.3	3394.3	3445.9	3503.5	3288.3	2956.0	2778.4	2715.2	2865.7	2902.6	2668.8
52.5°	2863.6	2856.6	3025.4	3232.2	3165.1	2986.1	2937.3	3123.0	3425.2	3486.6	3131.8
55°	2271.5	2315.8	2473.4	2805.7	2833.5	2864.0	3102.7	3594.4	4120.9	4151.4	3634.0
57.5°	1916.0	1902.3	2019.5	2327.0	2419.0	2605.0	3170.8	4110.7	4821.8	4795.8	4122.6
60°	1613.5	1618.7	1681.2	1910.7	2030.4	2230.5	3124.1	4575.7	5438.4	5407.2	4536.1
62.5°	1221.4	1209.5	1272.0	1460.8	1706.5	1904.1	2962.3	4795.1	5902.4	5869.4	4737.5
65°	798.8	813.6	863.8	981.7	1211.2	1589.9	2694.5	4666.3	6150.6	6120.0	4724.5
66°	679.5	685.5	736.4	820.2	993.6	1428.5	2568.1	4527.3	6154.8	6129.2	4654.0
67.5°	520.5	529.3	572.1	624.0	729.3	1107.0	2343.8	4242.3	6014.0	5990.9	4453.9
70°	381.9	384.7	418.7	430.7	448.2	612.1	1758.4	3659.3	5348.9	5341.9	3681.1
72.5°	291.3	294.8	314.5	324.7	319.0	369.6	995.0	2981.2	4176.7	4169.6	2537.6
75°	251.3	250.2	256.2	255.5	252.0	264.3	436.6	2009.4	2615.9	2629.5	1240.4
77.5°	206.4	207.4	211.6	207.8	205.0	206.7	266.0	1042.4	1105.9	1076.8	375.2
80°	165.3	166.7	170.9	168.5	164.6	168.5	193.7	377.3	371.0	329.9	151.3
82.5°	130.2	126.4	129.9	131.6	128.5	133.4	145.3	172.3	160.7	156.5	106.0
85°	84.2	84.9	78.6	87.7	84.9	86.3	99.7	117.6	112.7	111.6	73.0
87.5°	28.1	30.5	33.3	34.0	35.1	36.5	42.8	51.9	65.3	67.7	30.2
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°	1294.4	1294.4	1294.4	1294.4	1294.4	1294.4	1294.4	1294.4	1294.4	1294.4	1294.4
2.5°	1297.6	1302.8	1309.9	1318.3	1324.2	1328.5	1326.0	1326.4	1325.3	1321.8	1321.1
5°	1312.7	1320.7	1332.3	1334.8	1328.1	1314.8	1298.6	1282.5	1273.7	1264.2	1263.9
7.5°	1345.0	1348.8	1351.6	1332.0	1295.5	1261.8	1226.3	1202.1	1191.2	1184.6	1190.5
10°	1387.8	1388.1	1364.3	1306.7	1244.9	1198.9	1169.8	1151.2	1140.7	1136.8	1138.6
12.5°	1443.2	1435.2	1372.3	1276.2	1196.1	1151.6	1127.3	1115.8	1107.7	1104.9	1106.3
15°	1510.3	1483.9	1370.6	1239.0	1150.5	1115.4	1098.6	1089.8	1084.2	1082.1	1084.5
17.5°	1576.6	1525.7	1359.3	1197.9	1116.1	1091.5	1080.3	1070.5	1068.0	1066.6	1068.7
20°	1641.9	1562.2	1340.0	1153.7	1090.8	1078.6	1066.3	1060.3	1063.1	1064.5	1068.4
22.5°	1701.5	1584.3	1309.2	1108.0	1070.5	1063.5	1059.3	1057.9	1062.8	1065.6	1069.1
25°	1745.4	1590.6	1267.7	1068.4	1046.3	1049.1	1053.6	1051.5	1052.9	1053.3	1055.7
27.5°	1779.8	1588.5	1208.4	1030.1	1016.8	1029.4	1040.0	1031.2	1027.3	1023.8	1025.9
30°	1810.0	1583.6	1143.8	984.8	975.4	996.8	1008.7	992.2	981.7	975.0	981.3
32.5°	1835.6	1582.9	1083.8	926.2	927.3	950.1	962.4	943.4	927.6	921.3	920.3
35°	1862.3	1585.0	1028.0	866.6	860.3	890.8	897.1	879.6	859.5	852.5	853.2
37.5°	1878.8	1586.8	970.1	790.8	787.2	816.4	822.3	809.4	795.0	786.9	784.4
40°	1865.1	1565.7	890.4	713.5	701.6	726.5	742.3	739.9	718.8	694.6	693.5
42.5°	1857.0	1545.4	806.2	638.8	627.9	641.2	669.3	654.6	614.9	610.4	607.2
45°	1921.3	1557.6	736.0	576.3	552.1	573.5	599.8	564.7	547.9	541.9	546.8
47.5°	2102.4	1627.1	684.4	531.7	498.7	518.7	528.6	516.3	501.9	499.8	501.9
50°	2497.9	1810.0	661.2	507.2	462.2	474.2	470.3	476.3	465.4	467.5	469.6
52.5°	2999.8	2138.2	673.2	504.0	437.0	427.5	424.7	437.7	439.8	449.6	453.1
55°	3523.8	2427.4	714.6	515.2	408.9	375.5	380.1	402.9	423.6	437.0	440.1
57.5°	3967.8	2568.1	760.6	515.2	371.3	334.5	345.0	378.4	411.3	422.6	424.0
60°	4153.5	2546.0	775.0	480.5	332.4	301.1	319.0	363.6	394.5	400.8	404.3
62.5°	4128.2	2417.5	714.6	409.9	291.7	276.2	304.3	347.8	369.6	377.0	378.7
65°	3937.3	2127.6	586.5	327.5	257.3	258.3	292.0	327.8	345.4	354.1	357.6
66°	3789.9	1943.0	523.3	302.9	245.0	252.7	287.1	317.6	334.5	341.2	344.3
67.5°	3474.3	1613.8	446.8	263.6	231.3	245.0	276.6	302.2	315.5	323.3	325.7
70°	2533.0	983.8	321.1	210.6	211.3	229.9	250.2	268.1	293.4	304.3	307.8
72.5°	1499.0	491.7	233.8	178.3	195.1	214.1	223.9	244.3	276.9	295.9	300.8
75°	684.8	241.1	170.6	157.9	174.8	186.0	197.3	225.3	265.3	294.1	299.0
77.5°	232.3	155.5	138.6	141.8	146.0	153.7	170.6	206.4	252.4	284.3	292.4
80°	125.7	123.2	114.8	120.0	121.1	128.1	146.4	182.5	229.2	256.9	258.7
82.5°	100.7	95.5	91.3	93.4	95.5	104.6	117.6	150.9	194.4	158.6	160.4
85°	64.9	57.2	59.3	62.5	64.6	72.7	81.1	112.0	140.0	74.1	70.5
87.5°	19.3	17.5	21.1	23.5	23.2	23.5	31.2	58.6	82.5	34.7	23.9
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)