

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: P478035

Luminaire Tested: **IFLD-S-SA2B-727-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478035
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-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

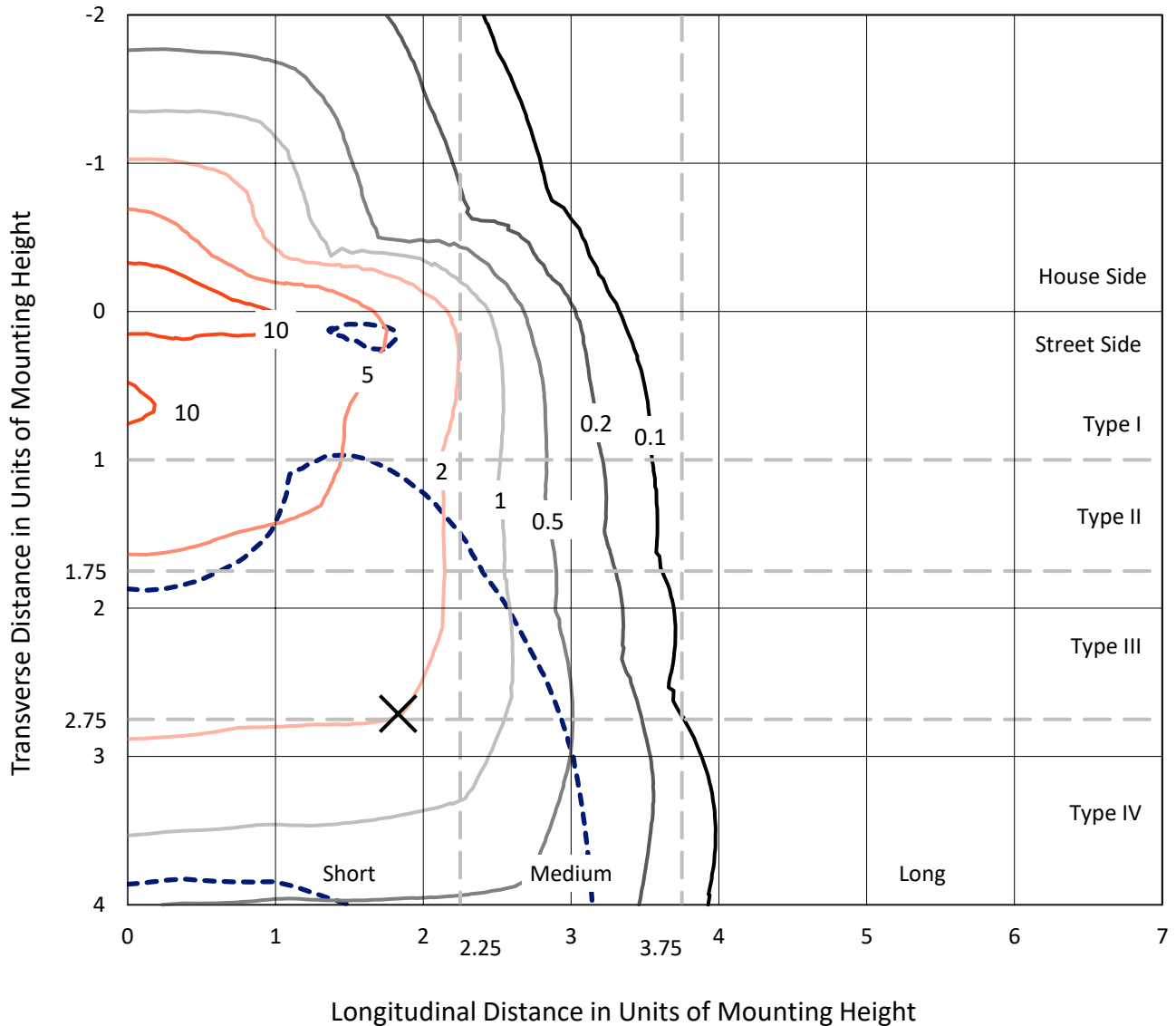
Lumens per Lamp: N/A
Luminaire Lumens: 9782.5 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

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

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Iso-Footcandle Lines of Horizontal Illumination

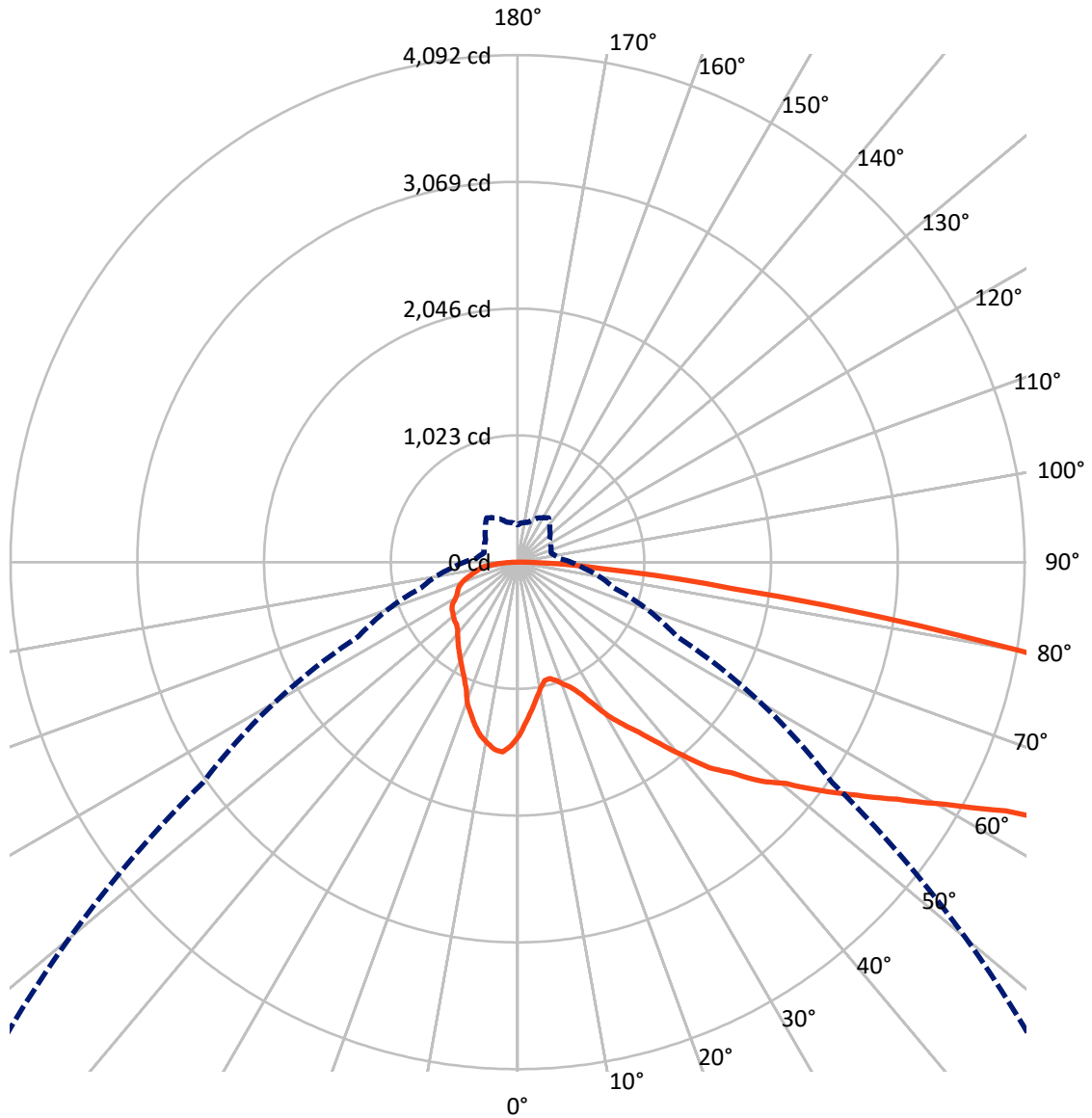
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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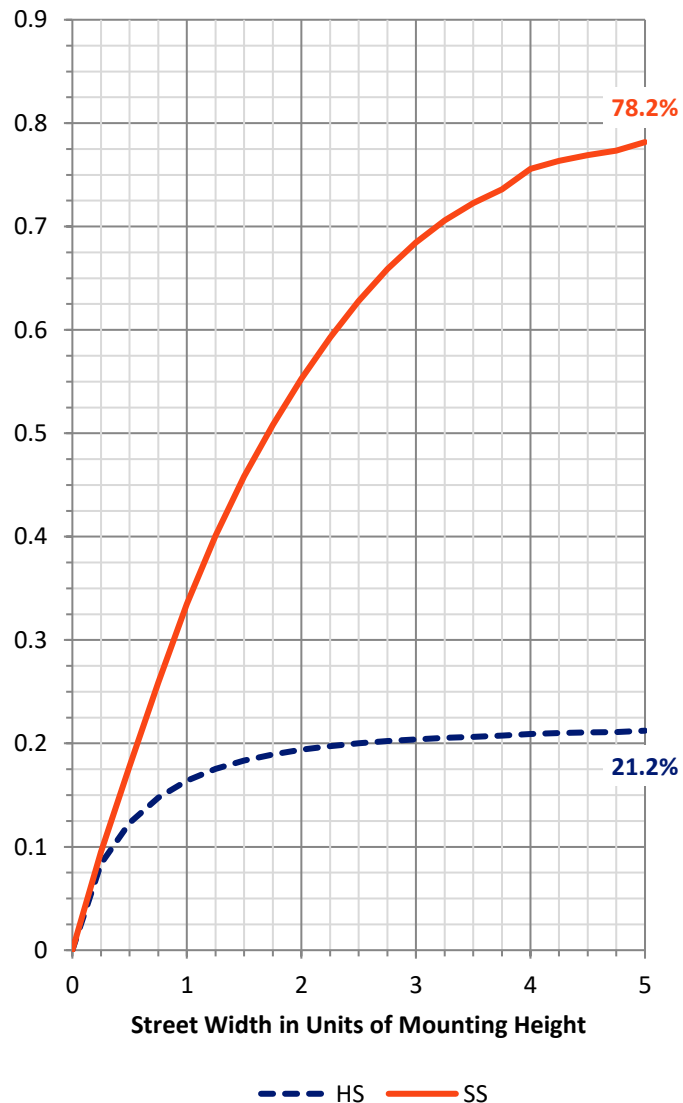
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2113.1	0.0	2113.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	7669.4	0.0	7669.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	9782.5	0.0	9782.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	1.3
10°-20°	362.3	3.7
20°-30°	596.2	6.1
30°-40°	891.6	9.1
40°-50°	1321.8	13.5
50°-60°	1904.9	19.5
60°-70°	2430.9	24.8
70°-80°	1891.6	19.3
80°-90°	253.8	2.6
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°	9782.5	100.0
0°-180°	9782.5	100.0

Coefficient of Utilization



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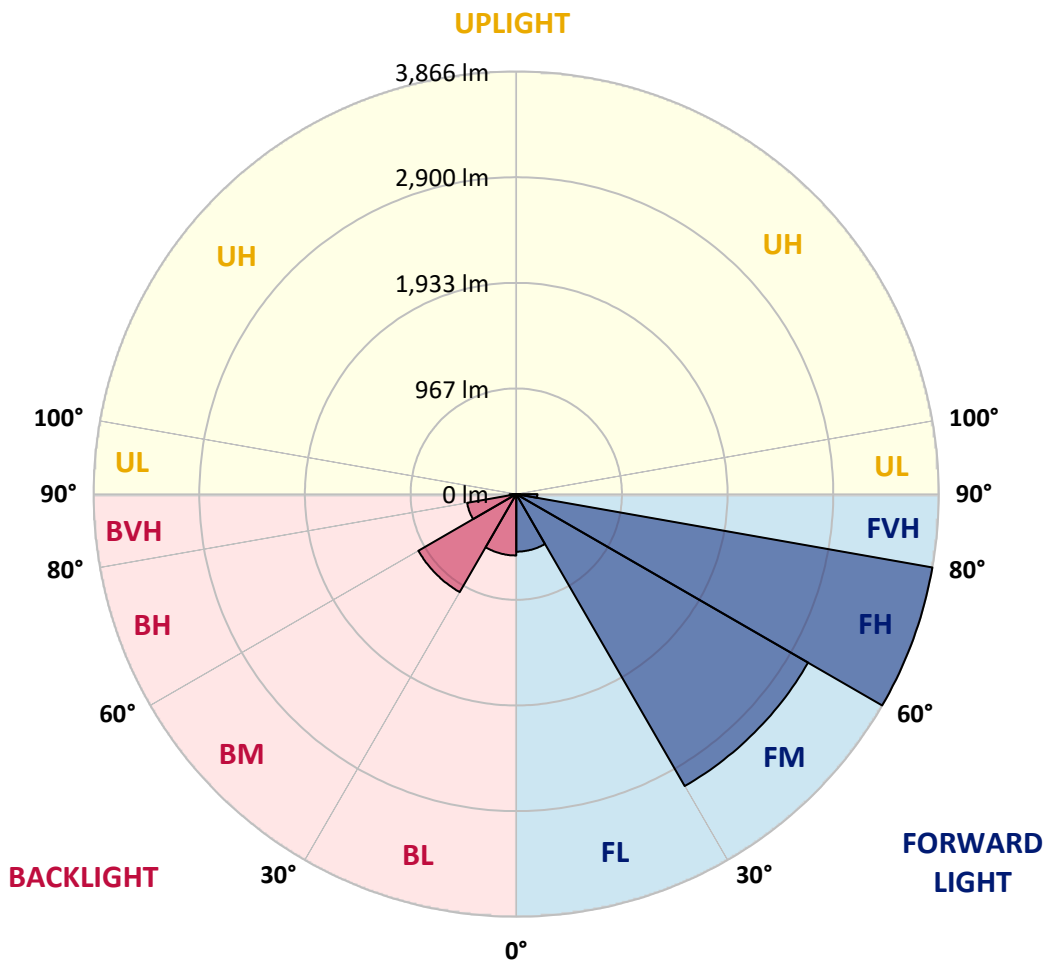
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	526.5	5.4			
FM (30°-60°)	3083.5	31.5			
FH (60°-80°)	3866.2	39.5			G2/5000
FVH (80°-90°)	193.2	2.0			G2/225
BL (0°-30°)	561.5	5.7	B2/1000		
BM (30°-60°)	1034.8	10.6	B2/2500		
BH (60°-80°)	456.3	4.7	B1/500		G1/500
BVH (80°-90°)	60.6	0.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5
2.5°	1256.6	1260.8	1274.2	1277.3	1291.8	1283.5	1301.1	1332.2	1349.7	1375.6	1406.6
5°	1157.4	1139.8	1148.0	1180.1	1196.7	1200.8	1219.4	1272.2	1305.3	1343.5	1401.4
7.5°	1040.5	1037.4	1053.9	1074.6	1107.7	1110.8	1152.2	1198.7	1267.0	1351.8	1420.1
10°	960.8	974.3	983.6	1005.3	1028.1	1028.1	1080.8	1161.5	1239.1	1320.8	1424.2
12.5°	956.7	948.4	950.5	961.9	978.4	999.1	1048.8	1121.2	1219.4	1314.6	1441.8
15°	970.2	973.3	954.6	969.1	975.3	982.6	1037.4	1119.1	1207.0	1336.3	1471.8
17.5°	1041.5	1023.9	995.0	981.5	1003.2	1003.2	1040.5	1104.6	1209.1	1347.7	1515.2
20°	1097.4	1097.4	1049.8	1035.3	1050.8	1047.7	1073.6	1121.2	1219.4	1370.4	1563.8
22.5°	1191.5	1204.9	1126.3	1096.3	1095.3	1103.6	1126.3	1166.7	1248.4	1402.5	1610.4
25°	1327.0	1330.1	1239.1	1208.0	1174.9	1188.4	1192.5	1232.9	1274.2	1439.7	1663.1
27.5°	1478.0	1475.9	1392.1	1314.6	1292.8	1296.0	1273.2	1300.1	1312.5	1451.1	1738.6
30°	1645.5	1626.9	1563.8	1454.2	1436.6	1417.0	1367.3	1366.3	1392.1	1515.2	1843.1
32.5°	1755.2	1731.4	1687.9	1609.3	1560.7	1562.8	1484.2	1483.2	1460.4	1585.5	1934.1
35°	1862.7	1826.5	1815.2	1734.5	1685.9	1691.0	1628.0	1619.7	1578.3	1692.1	2084.1
37.5°	1992.0	1960.0	1977.5	1916.5	1856.5	1831.7	1802.7	1792.4	1738.6	1842.0	2288.9
40°	2134.7	2124.4	2113.0	2083.0	2046.8	2048.9	2017.9	2007.5	1927.9	2023.0	2485.4
42.5°	2327.1	2287.8	2228.9	2248.5	2267.1	2286.8	2276.4	2249.6	2166.8	2207.1	2704.6
45°	2506.1	2454.3	2345.7	2351.9	2428.5	2444.0	2569.1	2566.0	2399.5	2440.9	2953.9
47.5°	2627.1	2603.3	2538.1	2530.9	2640.5	2639.5	2864.9	2864.9	2644.6	2673.6	3221.8
50°	2807.0	2745.0	2717.0	2753.2	2809.1	2847.4	3167.0	3186.6	2885.6	2916.7	3572.4
52.5°	3018.0	2940.5	2870.1	2963.2	3062.5	3087.3	3465.9	3457.6	3070.8	3199.0	3983.0
55°	3192.8	3153.5	3104.9	3158.7	3321.1	3352.1	3765.8	3689.3	3255.9	3432.8	4180.6
57.5°	3396.6	3420.4	3430.7	3417.3	3610.7	3659.3	4108.2	3888.9	3415.2	3590.0	4296.4
60°	3703.7	3718.2	3731.7	3763.7	3968.5	4036.8	4379.1	4139.2	3515.5	3681.0	4305.7
62.5°	4171.2	4115.4	4145.4	4256.1	4420.5	4498.1	4778.4	4315.0	3592.0	3735.8	4001.6
65°	4706.0	4630.5	4599.4	4742.2	5168.3	5106.2	5276.9	4446.4	3481.4	3531.0	3393.5
67.5°	5247.9	5256.2	5176.6	5463.1	5985.4	5985.4	5740.2	4509.5	3181.4	2861.8	2379.9
70°	5678.2	5704.0	5747.5	6302.9	7130.3	7255.5	6314.3	4250.9	2570.2	1905.1	1301.1
72.5°	5672.0	5594.4	5816.8	6839.7	8170.8	8066.3	6434.2	3361.4	1604.2	932.9	596.8
73°	5544.8	5479.6	5722.7	6834.5	8213.2	8114.9	6346.3	3098.7	1414.9	808.8	530.6
75°	4528.1	4410.2	4823.9	6190.2	7598.8	7674.3	5391.7	2021.0	775.7	498.5	373.4
77.5°	2064.4	2116.1	2655.0	4152.6	5856.1	5945.0	3544.5	874.0	425.1	349.6	275.1
80°	663.0	696.1	1033.2	2064.4	3670.7	3831.0	1638.3	397.2	303.0	267.9	205.8
82.5°	253.4	252.4	433.4	858.5	1739.7	1842.0	598.8	242.0	225.5	197.5	145.8
85°	88.9	93.1	163.4	339.2	684.7	716.8	207.9	134.5	156.2	132.4	83.8
87.5°	31.0	32.1	57.9	123.1	235.8	249.3	57.9	53.8	77.6	76.5	42.4
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°	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5
2.5°	1417.0	1426.3	1429.4	1466.6	1466.6	1466.6	1481.1	1481.1	1476.9	1466.6	1491.4
5°	1423.2	1439.7	1471.8	1503.8	1512.1	1519.4	1539.0	1522.5	1528.7	1518.3	1527.6
7.5°	1440.7	1463.5	1523.5	1543.1	1529.7	1545.2	1524.5	1513.1	1501.8	1505.9	1491.4
10°	1470.7	1499.7	1527.6	1563.8	1538.0	1522.5	1480.1	1469.7	1433.5	1421.1	1432.5
12.5°	1508.0	1543.1	1590.7	1577.3	1527.6	1483.2	1437.6	1394.2	1372.5	1341.5	1349.7
15°	1545.2	1585.5	1592.8	1570.0	1508.0	1452.1	1369.4	1308.4	1286.6	1258.7	1273.2
17.5°	1585.5	1623.8	1611.4	1552.5	1468.7	1383.9	1289.7	1229.8	1184.2	1166.7	1166.7
20°	1645.5	1664.2	1644.5	1523.5	1421.1	1309.4	1218.4	1150.1	1104.6	1097.4	1086.0
22.5°	1692.1	1722.1	1634.2	1481.1	1351.8	1212.2	1107.7	1081.9	1068.4	1057.0	1042.6
25°	1752.1	1751.0	1615.5	1441.8	1232.9	1096.3	1033.2	1031.2	1025.0	1020.8	1040.5
27.5°	1809.0	1785.2	1593.8	1344.6	1109.8	1008.4	974.3	997.0	1006.4	1000.1	1008.4
30°	1898.9	1859.6	1562.8	1241.1	1001.2	919.5	925.7	956.7	972.2	981.5	969.1
32.5°	1994.1	1934.1	1498.7	1133.6	905.0	863.6	878.1	910.2	928.8	939.1	950.5
35°	2131.6	1992.0	1433.5	992.9	835.7	829.5	837.8	855.3	882.2	889.5	892.6
37.5°	2301.3	2079.9	1345.6	880.2	781.9	789.2	797.4	803.6	804.7	818.1	812.9
40°	2470.9	2154.4	1217.3	772.6	726.1	765.4	761.2	749.9	740.5	728.1	725.0
42.5°	2619.8	2219.6	1074.6	681.6	676.4	740.5	727.1	698.1	676.4	667.1	651.6
45°	2787.4	2311.6	930.9	624.7	638.1	710.5	706.4	661.9	634.0	600.9	596.8
47.5°	3004.6	2407.8	793.3	565.8	601.9	699.2	701.2	644.4	604.0	559.5	553.3
50°	3282.8	2546.4	688.8	540.9	580.2	682.6	685.7	620.6	567.8	522.3	518.2
52.5°	3549.6	2688.1	601.9	502.7	565.8	663.0	670.2	598.8	537.8	480.9	484.0
55°	3684.1	2636.4	527.5	474.7	532.7	630.9	657.8	583.3	492.3	453.0	452.0
57.5°	3714.1	2509.2	468.5	445.8	504.7	596.8	637.1	536.8	471.6	438.5	434.4
60°	3615.8	2286.8	422.0	414.7	469.6	561.6	589.5	512.0	450.9	424.1	417.8
62.5°	3373.8	2056.1	389.9	400.3	439.6	523.3	559.5	494.4	431.3	412.7	399.2
65°	2766.7	1691.0	364.1	372.3	408.5	486.1	540.9	474.7	413.7	396.1	395.1
67.5°	1916.5	1165.6	343.4	358.9	383.7	459.2	522.3	453.0	391.0	384.8	376.5
70°	981.5	621.6	316.5	328.9	356.8	425.1	489.2	430.3	367.2	366.1	355.8
72.5°	497.5	364.1	285.5	304.1	323.7	380.6	447.8	400.3	337.2	325.8	309.2
73°	430.3	337.2	280.3	296.8	315.5	368.2	435.4	393.0	333.0	316.5	301.0
75°	313.4	265.8	251.3	267.9	282.4	332.0	394.1	359.9	306.1	288.6	274.1
77.5°	234.8	204.8	208.9	227.5	240.0	286.5	350.6	325.8	277.2	253.4	247.2
80°	172.7	156.2	172.7	190.3	199.6	252.4	319.6	282.4	233.7	206.9	201.7
82.5°	123.1	113.8	133.4	144.8	148.9	208.9	287.5	225.5	176.9	141.7	130.3
85°	70.3	69.3	90.0	88.9	92.1	122.0	189.3	150.0	113.8	86.9	84.8
87.5°	31.0	34.1	45.5	36.2	38.3	57.9	80.7	55.9	46.5	25.9	19.7
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)