

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: P478502

Luminaire Tested: **IFLD-S-SA2A-735-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478502  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-735-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

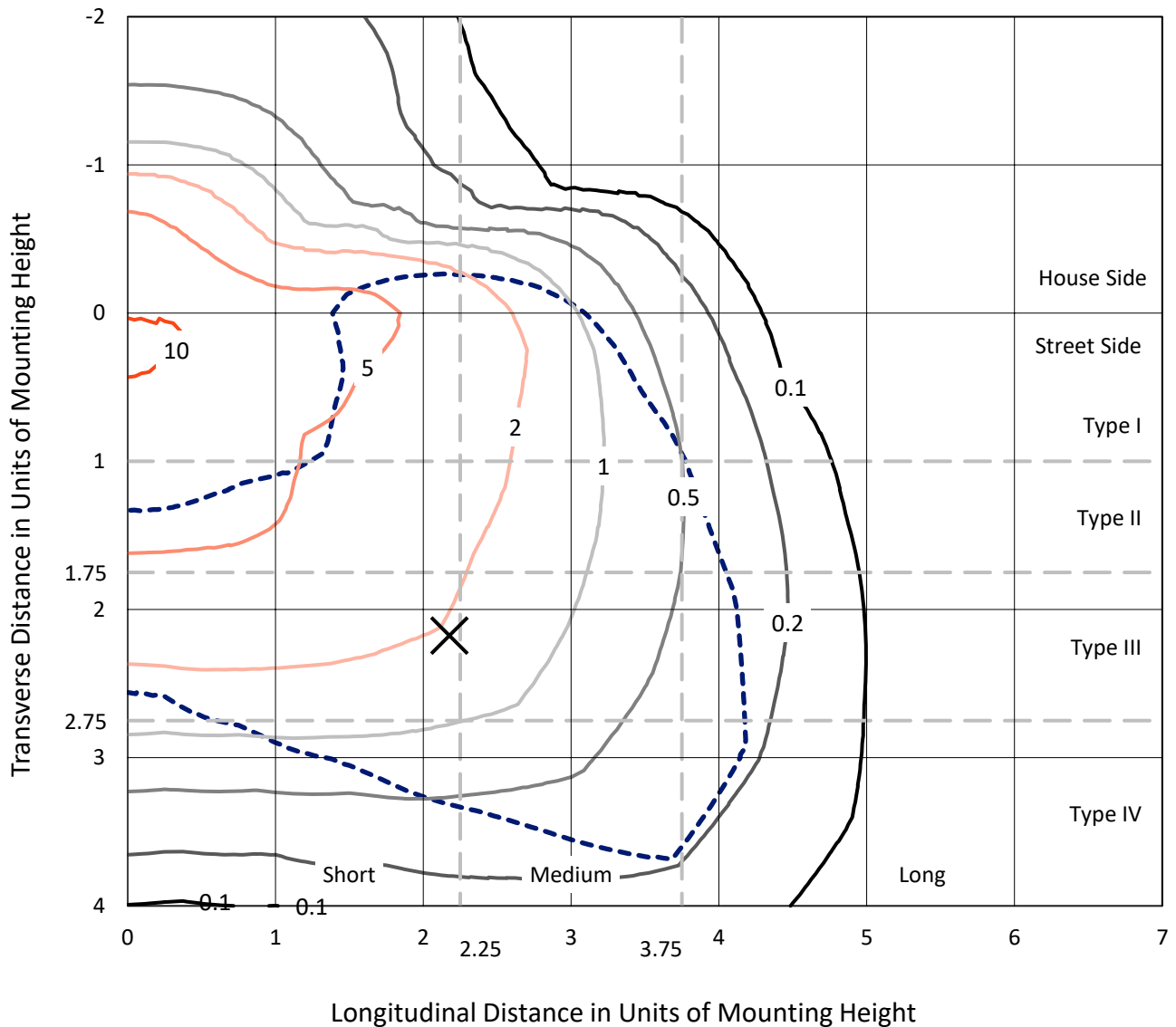
Lumens per Lamp: N/A  
Luminaire Lumens: 9203.9 lumens  
Efficiency: N/A  
Efficacy: 144.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 63.8  
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

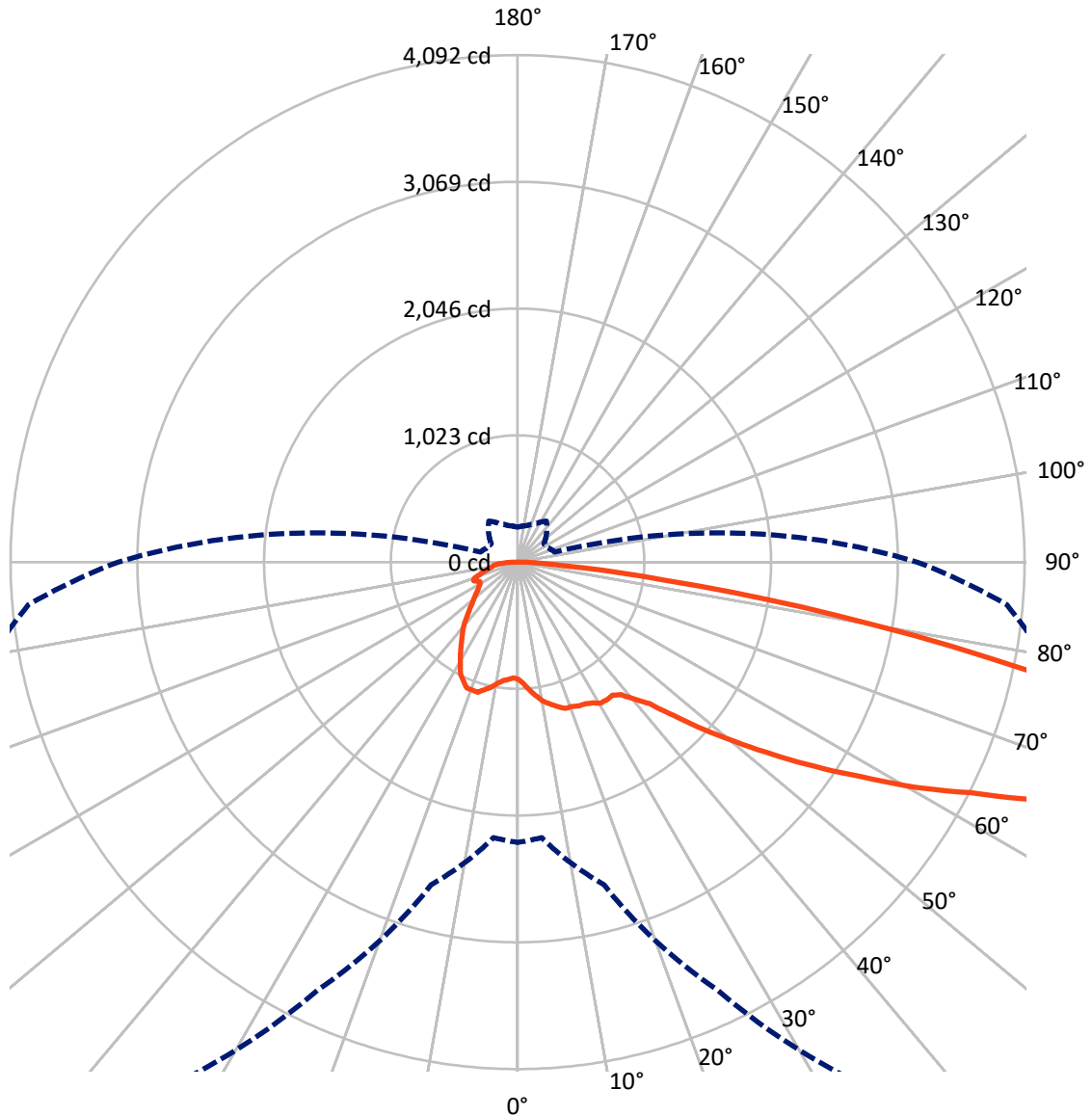
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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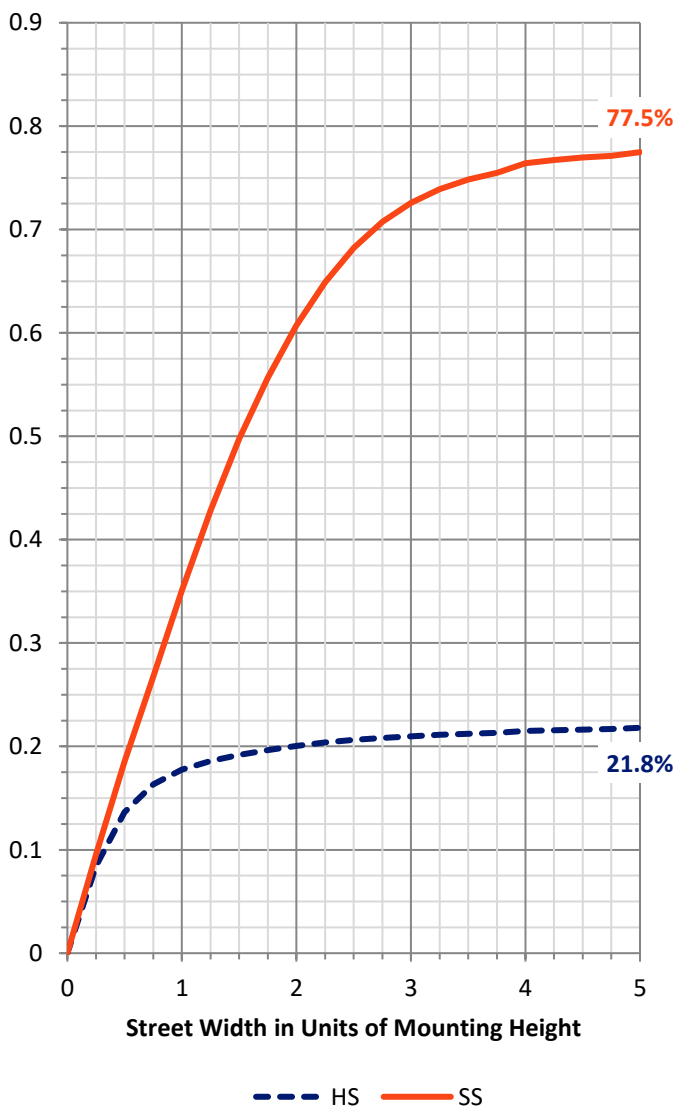
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2048.8	0.0	2048.8
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	7155.0	0.0	7155.0
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	9203.9	0.0	9203.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.0	1.1
10°-20°	322.7	3.5
20°-30°	544.9	5.9
30°-40°	754.1	8.2
40°-50°	1078.7	11.7
50°-60°	1739.8	18.9
60°-70°	2565.9	27.9
70°-80°	1863.3	20.2
80°-90°	237.5	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°	9203.9	100.0
0°-180°	9203.9	100.0

**Coefficient of Utilization**



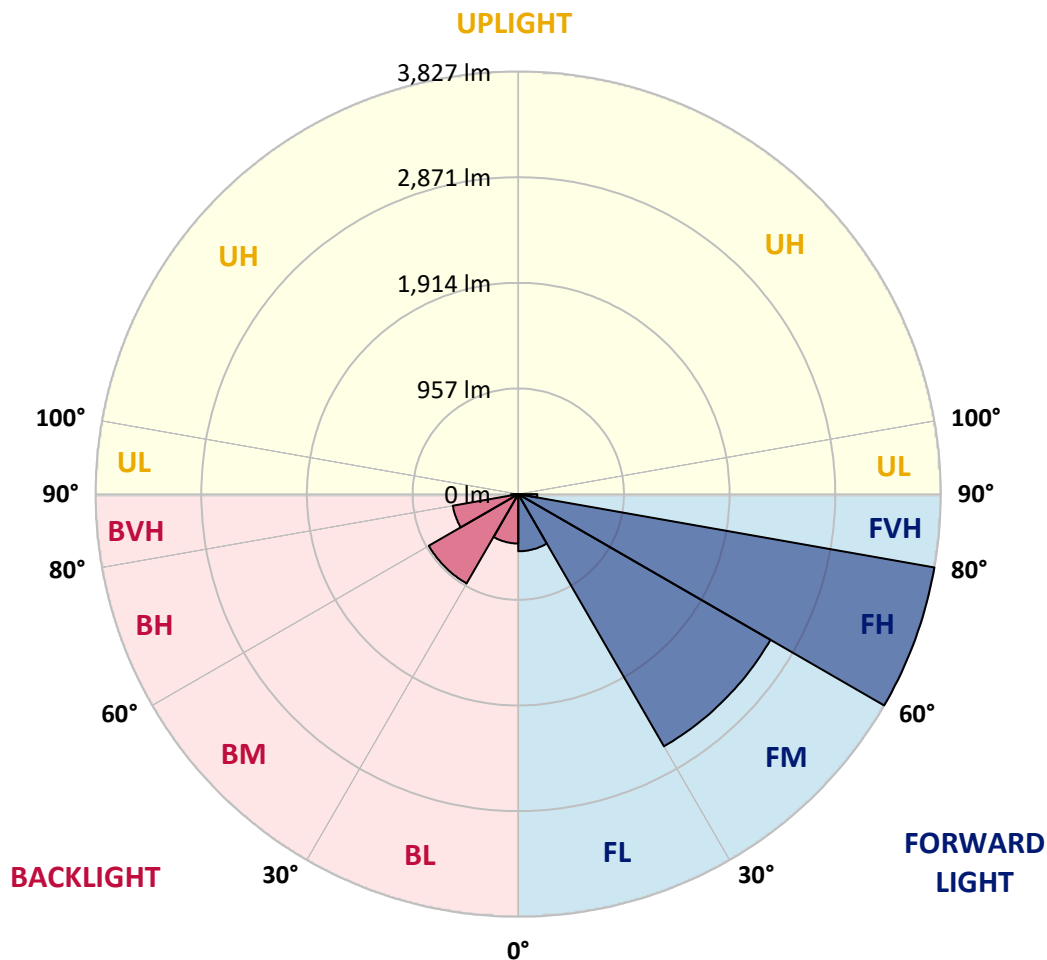
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	517.3	5.6			
FM (30°-60°)	2637.5	28.7			
FH (60°-80°)	3827.4	41.6			G2/5000
FVH (80°-90°)	172.9	1.9			G2/225
BL (0°-30°)	447.4	4.9	B1/500		
BM (30°-60°)	935.0	10.2	B1/1000		
BH (60°-80°)	601.8	6.5	B2/1000		G2/1000
BVH (80°-90°)	64.6	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8
2.5°	998.5	1004.4	998.5	997.5	987.5	980.6	986.5	977.6	967.7	963.7	954.8
5°	1089.8	1090.8	1079.8	1080.8	1060.0	1038.2	1042.1	1015.3	986.5	975.6	957.8
7.5°	1183.1	1172.1	1156.3	1151.3	1118.5	1094.7	1091.7	1067.9	1023.3	998.5	973.6
10°	1243.6	1247.6	1221.8	1199.9	1172.1	1143.4	1142.4	1097.7	1071.9	1035.2	1003.4
12.5°	1297.2	1298.2	1276.4	1241.6	1206.9	1171.1	1176.1	1156.3	1112.6	1077.9	1046.1
15°	1338.9	1332.9	1309.1	1277.3	1240.6	1212.8	1209.9	1193.0	1156.3	1127.5	1074.9
17.5°	1350.8	1347.8	1324.0	1290.2	1254.5	1233.7	1241.6	1213.8	1198.9	1173.1	1122.5
20°	1328.0	1321.0	1317.0	1279.3	1253.5	1251.5	1244.6	1250.5	1225.7	1201.9	1165.2
22.5°	1286.3	1283.3	1281.3	1251.5	1239.6	1248.6	1260.5	1269.4	1265.4	1242.6	1200.9
25°	1243.6	1257.5	1244.6	1230.7	1247.6	1270.4	1267.4	1296.2	1296.2	1289.3	1254.5
27.5°	1273.4	1264.4	1254.5	1247.6	1253.5	1289.3	1287.3	1322.0	1334.9	1322.0	1282.3
30°	1347.8	1338.9	1310.1	1279.3	1271.4	1310.1	1320.0	1350.8	1356.7	1325.0	1291.2
32.5°	1487.8	1482.8	1437.1	1346.8	1298.2	1320.0	1325.0	1359.7	1354.8	1334.9	1321.0
35°	1695.2	1678.3	1614.8	1461.9	1354.8	1332.9	1320.0	1347.8	1366.7	1356.7	1343.8
37.5°	1922.5	1903.6	1825.2	1631.7	1457.0	1367.7	1357.7	1380.6	1402.4	1397.4	1370.6
40°	2139.8	2139.8	2069.4	1844.1	1608.8	1452.0	1454.0	1428.2	1448.1	1439.1	1444.1
42.5°	2354.2	2346.3	2317.5	2093.2	1771.6	1593.0	1561.2	1496.7	1532.4	1529.4	1536.4
45°	2571.6	2565.6	2557.7	2325.4	2004.8	1783.5	1766.6	1650.5	1683.3	1669.4	1699.2
47.5°	2745.2	2752.2	2752.2	2584.5	2254.0	2037.6	2012.8	1829.2	1891.7	1898.6	1905.6
50°	2893.1	2896.1	2893.1	2831.6	2531.9	2328.4	2277.8	2091.2	2153.7	2208.3	2271.8
52.5°	3097.6	3101.6	3087.7	3063.8	2909.0	2634.1	2577.5	2370.1	2498.1	2555.7	2669.8
55°	3349.7	3319.9	3294.1	3312.0	3271.3	2970.5	2912.0	2657.9	2850.5	2926.9	3155.1
57.5°	3396.3	3422.1	3487.6	3629.6	3688.1	3298.1	3264.3	3011.2	3248.4	3314.9	3696.1
60°	3561.1	3518.4	3679.2	3986.9	4052.4	3724.8	3690.1	3398.3	3644.4	3713.9	4195.3
62.5°	3669.3	3667.3	3905.5	4270.7	4419.6	4167.5	4097.0	3901.5	4072.2	4139.7	4739.2
65°	3637.5	3666.3	4089.1	4437.5	4726.3	4670.7	4630.0	4334.2	4559.5	4553.6	5093.5
67.5°	3347.7	3429.1	3973.0	4557.5	5182.8	5284.1	5271.2	4942.6	4955.5	4829.5	5251.3
70°	2945.7	2917.9	3481.7	4432.5	5411.1	6011.6	6008.6	5395.2	5311.8	4890.0	4798.7
72°	2262.9	2232.1	2695.6	3806.2	5291.0	6302.4	6391.7	5708.8	5307.9	4638.9	3964.0
72.5°	2054.5	2027.7	2489.2	3582.9	5158.0	6377.8	6336.1	5720.8	5266.2	4520.8	3703.0
75°	945.8	915.1	1243.6	2193.4	4023.6	5651.3	5793.2	5353.5	4599.2	3598.8	2218.2
77.5°	281.9	272.9	400.0	885.3	2338.3	4163.5	4218.1	4039.5	3210.7	1971.1	822.8
80°	156.8	157.8	206.4	331.5	1028.2	2406.8	2603.3	2495.1	1575.1	651.1	273.9
82.5°	87.3	92.3	129.0	196.5	472.4	1104.6	1189.0	1146.3	569.7	305.7	149.9
85°	45.7	47.6	67.5	105.2	268.0	349.4	359.3	385.1	295.8	208.4	80.4
87.5°	17.9	17.9	24.8	43.7	99.2	108.2	97.3	118.1	169.7	135.0	39.7
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°	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8
2.5°	962.7	954.8	953.8	940.9	944.9	933.9	934.9	932.9	933.9	932.0	927.0
5°	957.8	951.8	934.9	945.8	935.9	949.8	960.7	956.8	959.7	958.8	959.7
7.5°	964.7	956.8	954.8	948.8	957.8	963.7	972.6	997.5	995.5	998.5	1004.4
10°	985.5	976.6	970.7	979.6	974.6	993.5	1003.4	1016.3	1039.1	1040.1	1028.2
12.5°	1026.2	1020.3	1008.4	1010.4	1027.2	1033.2	1039.1	1047.1	1062.0	1059.0	1069.9
15°	1072.9	1060.0	1053.0	1051.1	1055.0	1062.0	1061.0	1068.9	1076.9	1083.8	1080.8
17.5°	1106.6	1089.8	1091.7	1101.7	1100.7	1098.7	1085.8	1081.8	1085.8	1089.8	1087.8
20°	1141.4	1143.4	1128.5	1119.5	1115.6	1095.7	1085.8	1073.9	1062.0	1067.9	1076.9
22.5°	1185.0	1176.1	1154.3	1127.5	1107.6	1095.7	1064.9	1044.1	1044.1	1050.1	1047.1
25°	1234.7	1215.8	1178.1	1129.5	1104.6	1054.0	1032.2	1029.2	1021.3	1030.2	1034.2
27.5°	1273.4	1256.5	1204.9	1122.5	1054.0	1013.3	1000.4	996.5	1009.4	1010.4	1026.2
30°	1289.3	1284.3	1208.9	1104.6	1002.4	936.9	929.0	946.8	960.7	981.6	982.6
32.5°	1310.1	1312.1	1214.8	1063.0	934.9	869.4	857.5	879.4	919.1	935.9	948.8
35°	1344.8	1354.8	1209.9	1011.4	863.5	800.9	799.0	804.9	843.6	873.4	890.3
37.5°	1405.4	1403.4	1208.9	949.8	806.9	741.4	725.5	727.5	753.3	778.1	775.1
40°	1486.8	1478.8	1205.9	869.4	733.5	690.8	664.0	654.1	652.1	645.1	647.1
42.5°	1597.9	1582.0	1204.9	788.0	667.0	621.3	602.4	576.6	557.8	522.1	524.0
45°	1752.7	1725.0	1179.1	711.6	601.5	563.7	535.0	516.1	475.4	430.7	430.7
47.5°	1991.9	1901.6	1180.1	627.3	537.9	507.2	487.3	454.6	410.9	375.2	371.2
50°	2344.3	2137.8	1146.3	560.8	486.3	465.5	444.6	406.9	365.2	340.4	343.4
52.5°	2798.8	2490.2	1145.3	501.2	445.6	430.7	407.9	374.2	343.4	327.5	321.6
55°	3340.7	2956.6	1181.1	452.6	403.9	396.0	386.1	358.3	328.5	314.6	313.6
57.5°	3895.6	3412.2	1238.6	417.8	368.2	374.2	367.2	345.4	321.6	305.7	303.7
60°	4388.8	3773.5	1122.5	376.2	336.5	349.4	359.3	340.4	327.5	326.5	319.6
62.5°	4761.0	3928.3	853.5	344.4	319.6	343.4	370.2	382.1	376.2	384.1	385.1
65°	4897.0	3835.0	587.6	327.5	306.7	357.3	416.8	412.9	378.1	363.3	371.2
67.5°	4706.4	3456.9	435.7	307.7	297.7	386.1	443.6	394.0	341.4	339.4	333.5
70°	4047.4	2929.9	355.3	286.8	282.9	370.2	431.7	365.2	321.6	308.7	302.7
72°	3224.6	2281.8	311.6	271.9	259.0	330.5	403.9	342.4	304.7	288.8	281.9
72.5°	2943.7	2115.0	305.7	265.0	254.1	321.6	390.1	335.5	300.7	286.8	275.9
75°	1614.8	1082.8	269.0	243.2	214.4	277.9	361.3	314.6	283.9	264.0	262.0
77.5°	600.5	419.8	232.2	215.4	185.6	240.2	328.5	298.7	258.0	233.2	228.3
80°	230.3	221.3	189.6	181.6	155.8	210.4	302.7	268.0	219.3	194.5	186.6
82.5°	139.9	129.0	143.9	141.9	119.1	191.6	284.8	251.1	194.5	157.8	152.8
85°	76.4	76.4	100.2	96.3	83.4	152.8	215.4	166.7	123.1	101.2	103.2
87.5°	33.7	39.7	53.6	50.6	45.7	86.3	105.2	88.3	61.5	41.7	44.7
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)