

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: P318986

Luminaire Tested: **GAN-SA2A-730-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318986  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2A-730-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8622 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

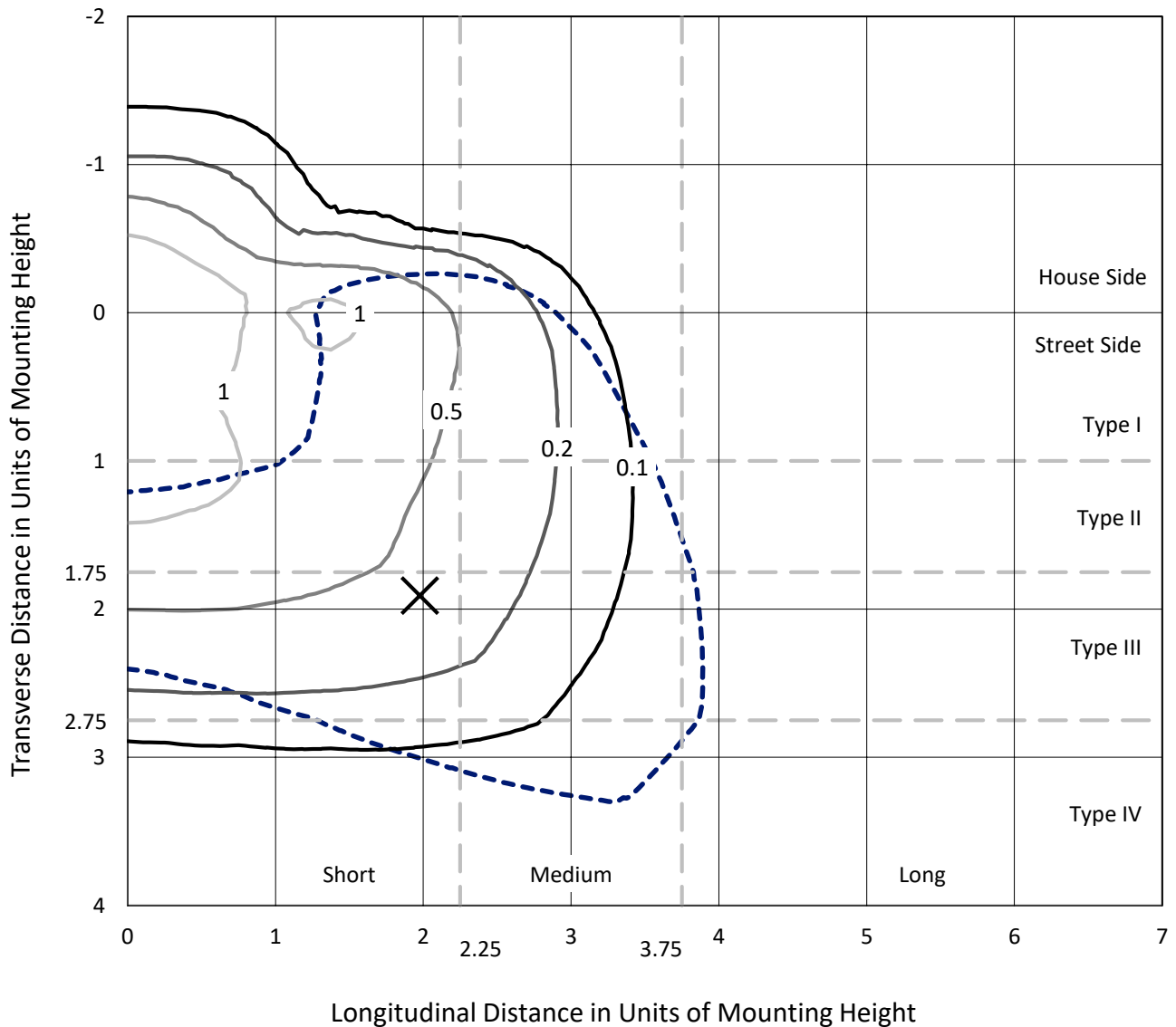
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

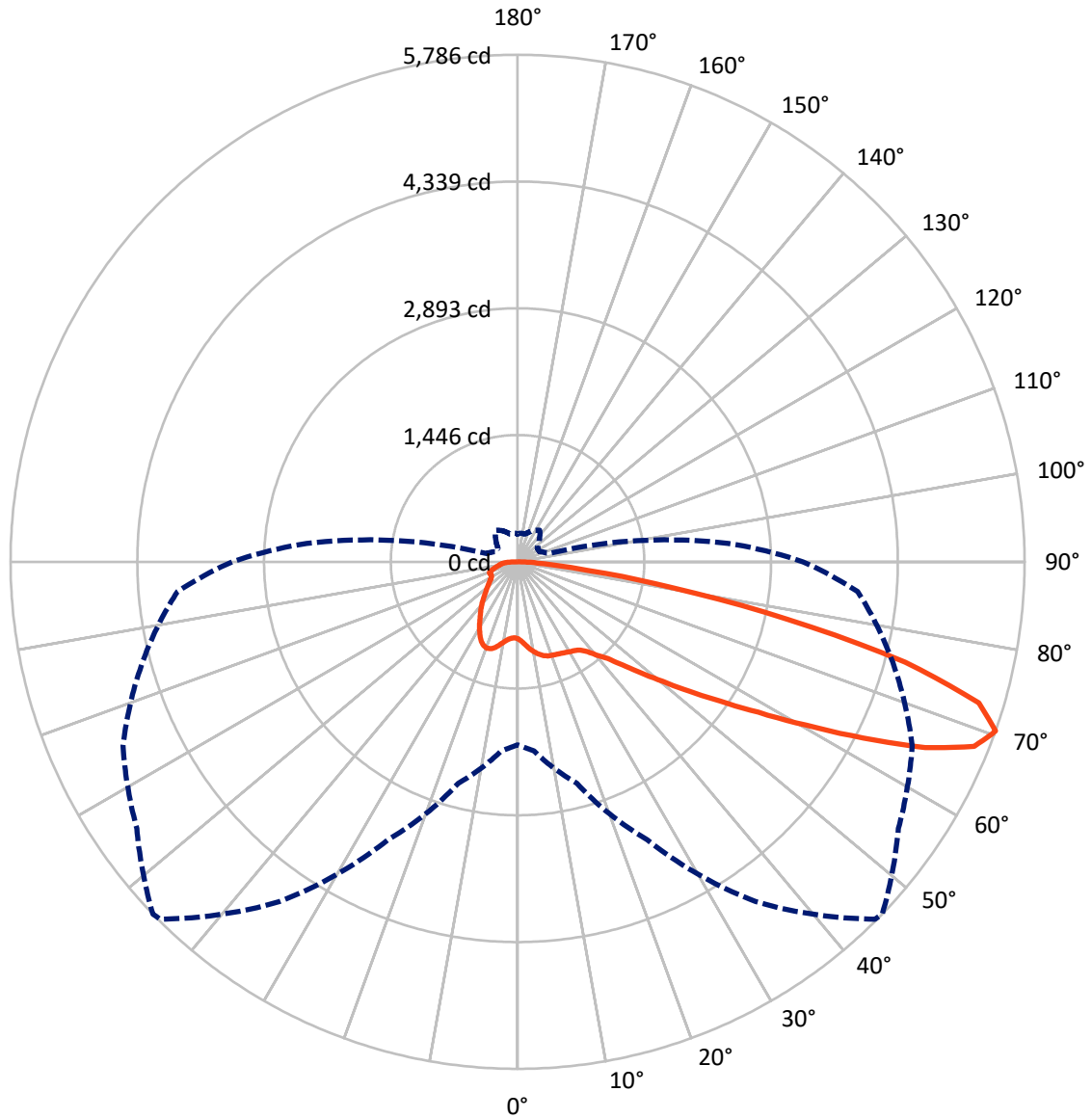
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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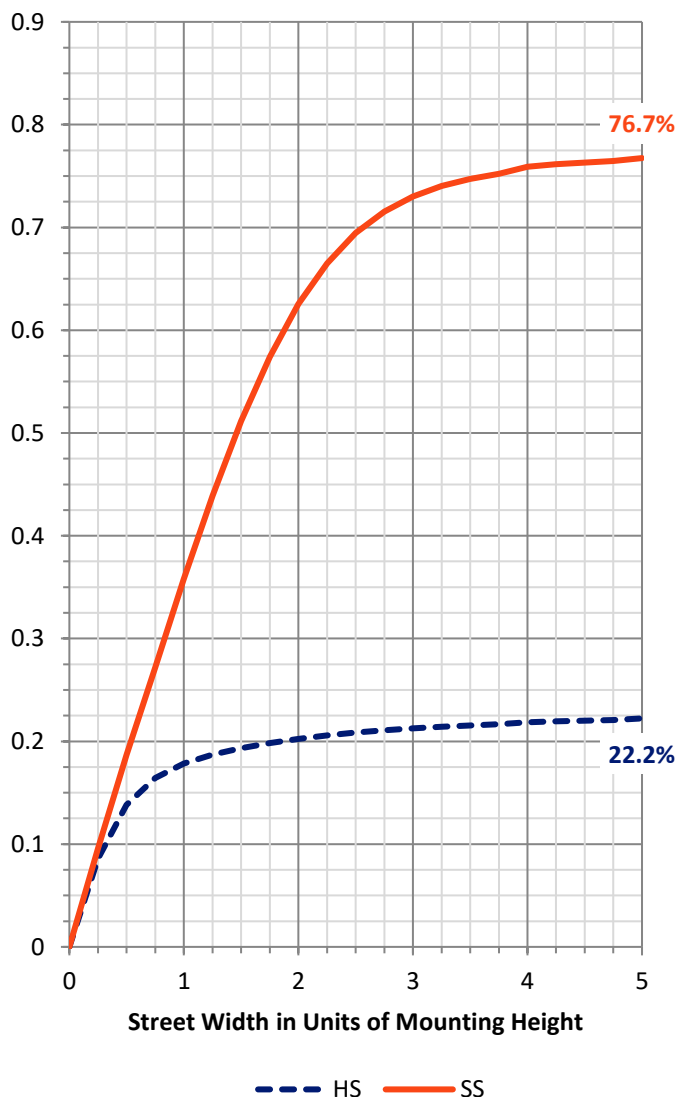
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1976.1	0.0	1976.1
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	6645.9	0.0	6645.9
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	8622.0	0.0	8622.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.5	1.0
10°-20°	298.3	3.5
20°-30°	497.5	5.8
30°-40°	705.9	8.2
40°-50°	1038.4	12.0
50°-60°	1758.5	20.4
60°-70°	2496.1	29.0
70°-80°	1516.4	17.6
80°-90°	221.3	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°	8622.0	100.0
0°-180°	8622.0	100.0

**Coefficient of Utilization**



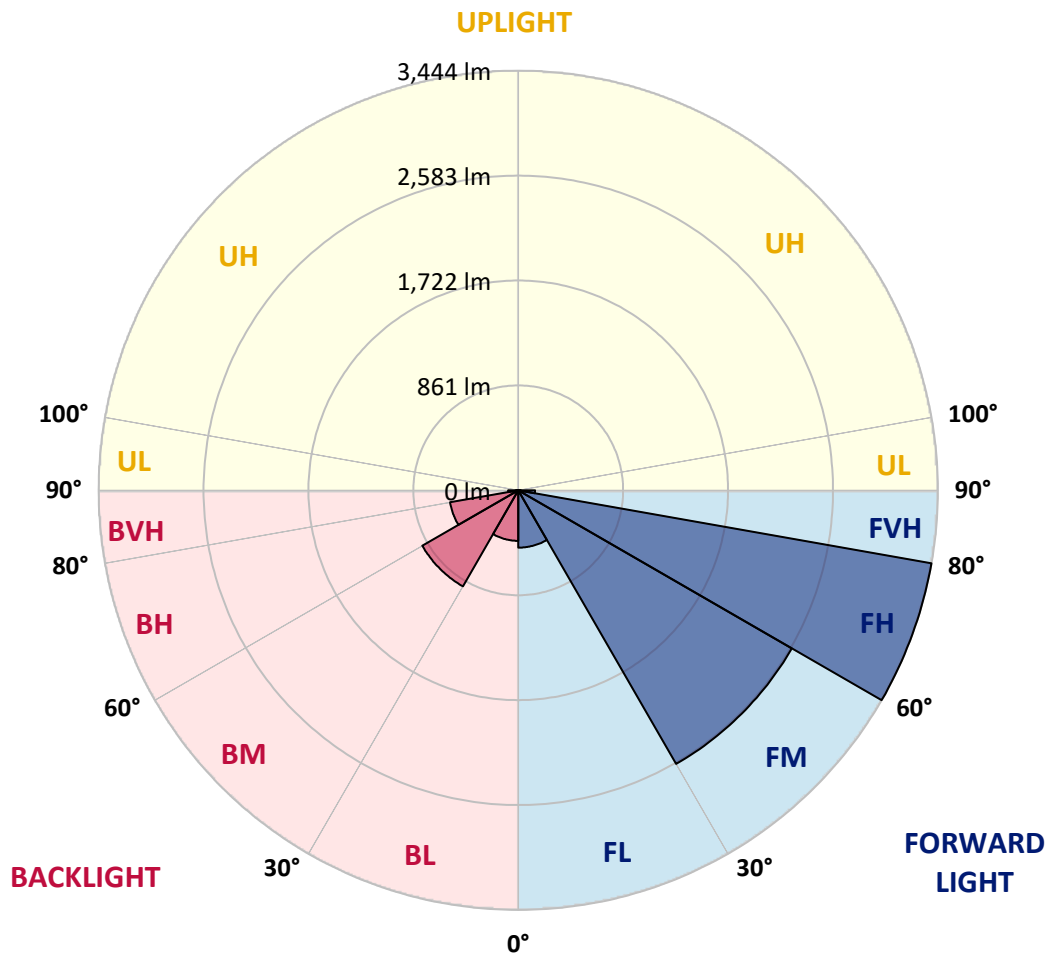
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	470.5	5.5			
FM (30°-60°)	2593.1	30.1			
FH (60°-80°)	3444.4	39.9			G2/5000
FVH (80°-90°)	137.9	1.6			G2/225
BL (0°-30°)	414.9	4.8	B1/500		
BM (30°-60°)	909.7	10.6	B1/1000		
BH (60°-80°)	568.1	6.6	B2/1000		G2/1000
BVH (80°-90°)	83.4	1.0			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°	45°	46°	55°	65°	75°	85°
0°	878.4	878.4	878.4	878.4	878.4	878.4	878.4	878.4	878.4	878.4	878.4
2.5°	922.4	923.0	924.1	921.2	912.9	910.6	909.7	901.1	895.5	887.3	880.2
5°	996.1	996.7	995.0	986.7	968.4	954.8	953.7	934.2	916.5	897.6	883.4
7.5°	1073.2	1074.0	1068.4	1052.8	1027.1	1003.5	1002.0	975.5	948.6	920.0	898.8
10°	1141.3	1137.8	1128.6	1106.8	1076.4	1047.5	1046.3	1018.6	987.6	953.1	924.7
12.5°	1186.8	1183.8	1172.0	1145.4	1112.1	1085.5	1083.2	1057.5	1027.4	989.7	955.7
15°	1211.8	1213.9	1198.0	1167.9	1135.4	1113.0	1110.9	1092.6	1065.8	1027.7	988.8
17.5°	1215.1	1216.9	1201.5	1171.7	1145.2	1129.8	1128.9	1116.8	1097.4	1060.8	1020.0
20°	1196.2	1197.4	1184.7	1160.2	1142.8	1138.1	1137.8	1132.5	1118.0	1085.5	1046.0
22.5°	1168.8	1169.6	1160.5	1142.8	1136.9	1144.3	1146.3	1144.3	1133.9	1103.5	1066.4
25°	1162.0	1161.4	1151.9	1133.9	1139.0	1154.6	1157.3	1158.1	1151.1	1124.5	1092.3
27.5°	1194.7	1192.7	1174.7	1145.7	1149.0	1167.9	1171.4	1180.0	1175.5	1152.2	1121.8
30°	1289.4	1285.9	1249.0	1190.6	1174.7	1184.4	1188.8	1202.4	1203.3	1183.8	1161.1
32.5°	1449.4	1444.9	1378.8	1274.4	1218.0	1201.2	1205.3	1225.7	1236.6	1221.6	1197.1
35°	1651.5	1646.5	1559.7	1416.9	1290.6	1233.4	1236.3	1252.6	1274.4	1253.1	1220.7
37.5°	1862.2	1850.1	1766.6	1584.5	1406.0	1302.1	1302.1	1304.2	1314.5	1270.3	1248.4
40°	2071.7	2059.6	1984.0	1781.6	1555.3	1410.4	1403.6	1357.9	1349.6	1311.6	1304.2
42.5°	2266.4	2262.9	2218.3	2004.4	1730.6	1516.9	1507.5	1429.9	1431.7	1408.1	1408.4
45°	2473.5	2473.5	2437.2	2229.2	1934.8	1688.1	1678.6	1564.4	1582.1	1571.2	1597.5
47.5°	2642.6	2647.9	2642.9	2463.5	2172.3	1905.5	1888.4	1750.9	1800.5	1838.0	1914.4
50°	2815.2	2823.5	2824.4	2720.5	2459.4	2164.0	2144.5	1998.5	2109.1	2216.5	2366.7
52.5°	3065.7	3084.3	3010.3	2976.9	2811.1	2470.9	2451.7	2316.9	2501.6	2652.4	2911.1
55°	3298.0	3281.7	3228.9	3249.6	3187.6	2820.2	2805.8	2687.5	2938.9	3134.8	3470.9
57.5°	3423.7	3422.5	3475.6	3564.1	3593.6	3251.0	3238.9	3123.9	3431.9	3579.2	3996.4
60°	3571.2	3573.3	3704.9	3905.8	4027.4	3787.5	3782.2	3694.8	3910.8	3994.0	4408.6
62.5°	3591.8	3629.0	3855.6	4201.5	4433.4	4414.2	4426.0	4209.1	4339.2	4325.1	4716.3
65°	3354.3	3403.3	3813.4	4290.9	4837.0	5099.6	5110.6	4726.4	4677.1	4608.1	4826.4
67.5°	2867.5	2940.0	3385.6	4096.4	4970.1	5606.3	5621.6	5127.4	4957.4	4704.0	4561.4
70°	2086.7	2167.3	2615.8	3498.6	4732.9	5768.3	5785.7	5304.7	4968.0	4431.0	3894.0
72.5°	1260.5	1323.7	1693.4	2575.6	3994.6	5473.2	5504.2	5079.9	4535.8	3753.2	2875.4
75°	553.5	594.9	818.8	1484.2	2859.8	4528.4	4567.0	4348.1	3685.4	2727.6	1699.6
77.5°	235.8	247.6	335.8	644.7	1616.7	3094.4	3147.5	3177.0	2500.4	1484.2	718.2
80°	146.9	151.7	190.0	291.8	756.6	1737.9	1795.2	1869.2	1241.6	545.6	250.8
82.5°	89.4	94.7	126.3	176.4	393.9	787.8	815.3	867.5	481.8	235.8	129.8
85°	53.7	57.5	77.3	111.5	224.3	309.8	309.5	342.3	226.9	151.7	68.5
87.5°	25.7	28.6	41.3	57.8	113.0	116.3	108.9	123.3	137.8	99.4	34.5
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°	878.4	878.4	878.4	878.4	878.4	878.4	878.4	878.4	878.4	878.4	878.4
2.5°	877.8	876.6	872.8	869.9	869.3	867.5	866.0	866.9	868.1	868.4	868.4
5°	877.5	874.3	869.3	867.2	869.9	873.4	877.8	883.7	887.3	889.9	891.7
7.5°	891.7	885.5	879.9	878.7	884.0	893.5	903.5	915.9	924.4	930.3	931.5
10°	915.3	907.6	902.0	903.2	912.6	926.2	940.4	956.3	969.3	977.3	977.9
12.5°	942.4	935.1	929.8	934.8	950.4	966.9	981.7	995.6	1007.4	1015.3	1015.3
15°	973.7	968.4	962.2	973.7	995.0	1009.7	1015.9	1022.7	1029.2	1035.1	1033.9
17.5°	1003.8	998.8	995.6	1009.1	1031.3	1038.0	1033.9	1028.9	1028.9	1032.1	1032.7
20°	1029.8	1025.4	1027.4	1040.7	1052.2	1045.1	1029.8	1013.8	1007.4	1009.1	1010.9
22.5°	1052.5	1050.4	1056.6	1062.8	1054.6	1029.8	1001.5	979.9	971.9	971.4	971.9
25°	1079.1	1078.8	1086.4	1075.2	1038.6	992.9	954.8	933.9	929.5	933.0	938.9
27.5°	1112.1	1115.4	1119.2	1078.2	1006.2	937.1	898.5	884.0	888.4	897.0	902.6
30°	1154.3	1163.2	1154.9	1070.8	959.6	873.4	836.5	832.4	844.5	856.6	862.5
32.5°	1195.3	1209.2	1189.1	1051.6	899.4	805.8	777.2	776.0	790.8	802.6	810.8
35°	1228.4	1255.8	1214.8	1013.6	829.7	743.6	722.6	714.7	720.0	733.8	743.3
37.5°	1271.4	1317.2	1232.5	955.4	754.2	692.2	667.7	649.4	644.7	650.3	655.0
40°	1350.2	1410.7	1240.8	874.3	680.4	640.9	616.1	589.2	570.7	557.1	557.4
42.5°	1478.9	1532.6	1235.4	775.7	612.3	590.7	562.7	531.7	501.6	470.9	468.6
45°	1687.8	1713.7	1219.5	671.3	552.4	538.2	511.9	481.0	440.8	406.0	402.8
47.5°	2022.1	1964.6	1194.7	580.1	499.5	493.6	469.5	433.7	391.3	363.2	360.9
50°	2478.0	2326.6	1182.6	507.5	452.9	454.7	434.9	397.2	357.0	336.4	334.0
52.5°	3023.3	2748.2	1205.9	451.5	415.5	421.7	406.9	371.5	337.9	321.6	319.3
55°	3588.9	3184.9	1231.0	410.7	380.0	392.1	387.1	357.9	327.5	312.5	310.4
57.5°	4073.1	3511.0	1180.9	377.7	348.5	367.4	371.8	349.4	322.2	308.6	306.3
60°	4377.9	3642.3	1049.3	346.7	323.4	347.6	362.9	347.0	324.3	323.1	321.3
62.5°	4522.5	3630.8	851.9	322.2	307.8	339.0	369.4	360.3	347.9	358.5	359.4
65°	4457.6	3457.3	634.4	306.0	296.5	342.3	388.9	385.4	354.7	365.3	366.8
67.5°	4030.3	3043.3	469.7	291.8	284.1	351.4	424.3	393.6	341.4	349.1	344.3
70°	3257.5	2412.8	362.3	275.9	271.5	350.2	440.2	388.6	326.9	328.7	316.0
72.5°	2246.3	1645.3	294.8	261.1	253.2	319.3	429.0	376.2	314.8	301.3	284.4
75°	1221.6	883.1	250.5	245.8	221.0	280.3	408.4	367.4	303.9	285.9	276.5
77.5°	480.7	366.5	217.5	224.8	193.3	247.6	385.4	350.5	288.9	265.3	260.5
80°	196.2	187.1	180.3	194.4	166.1	216.6	357.6	330.8	270.9	246.1	236.6
82.5°	111.2	116.3	140.2	153.4	134.8	199.5	344.3	314.8	249.3	220.4	209.2
85°	56.9	68.2	97.7	110.1	99.1	169.7	317.2	275.6	200.1	168.8	169.7
87.5°	27.4	38.1	61.7	69.0	64.3	122.7	236.9	199.8	155.8	123.3	119.5
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)