

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: P319315

Luminaire Tested: **GAN-SA1B-730-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319315  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1B-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5338 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

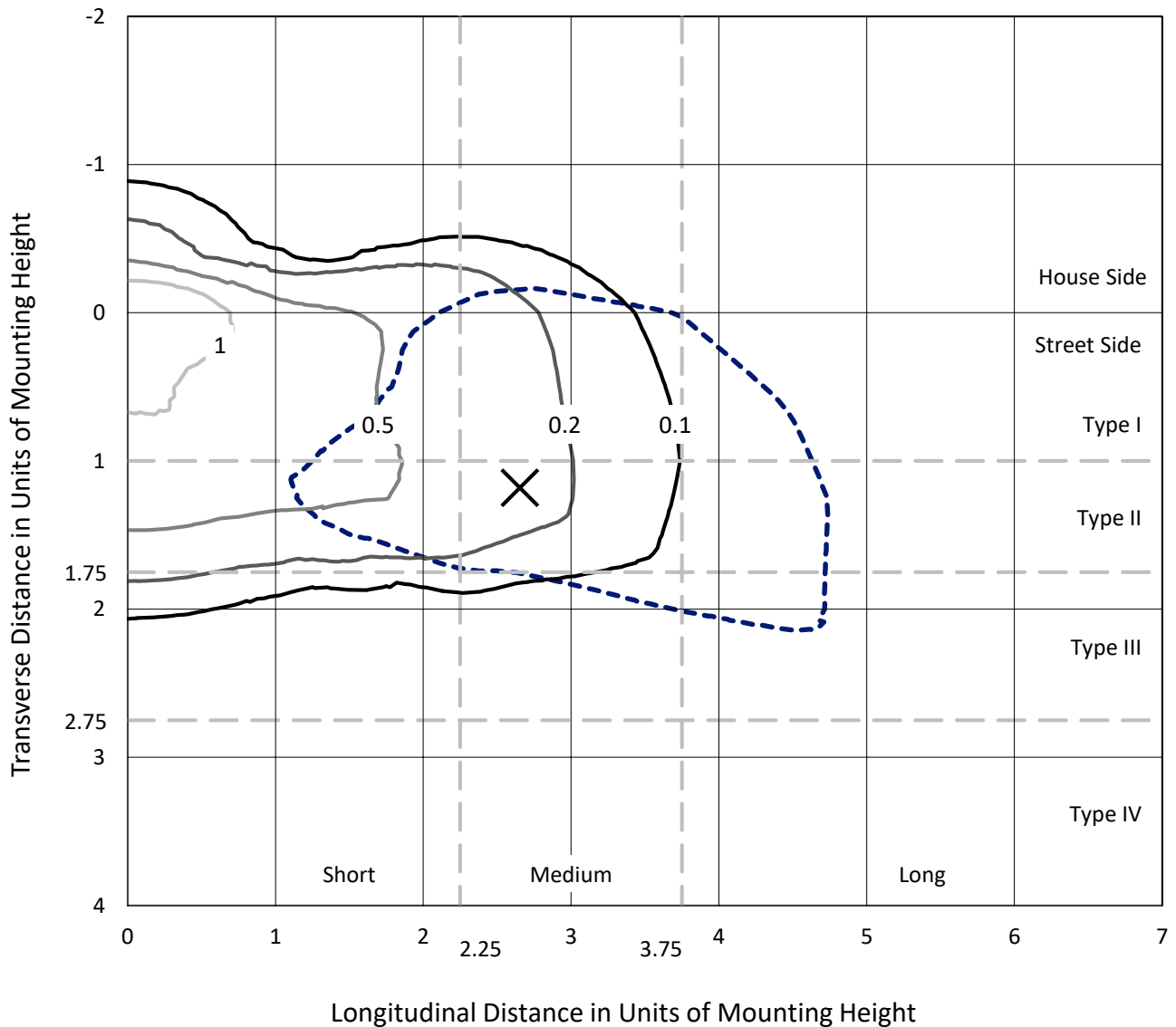
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

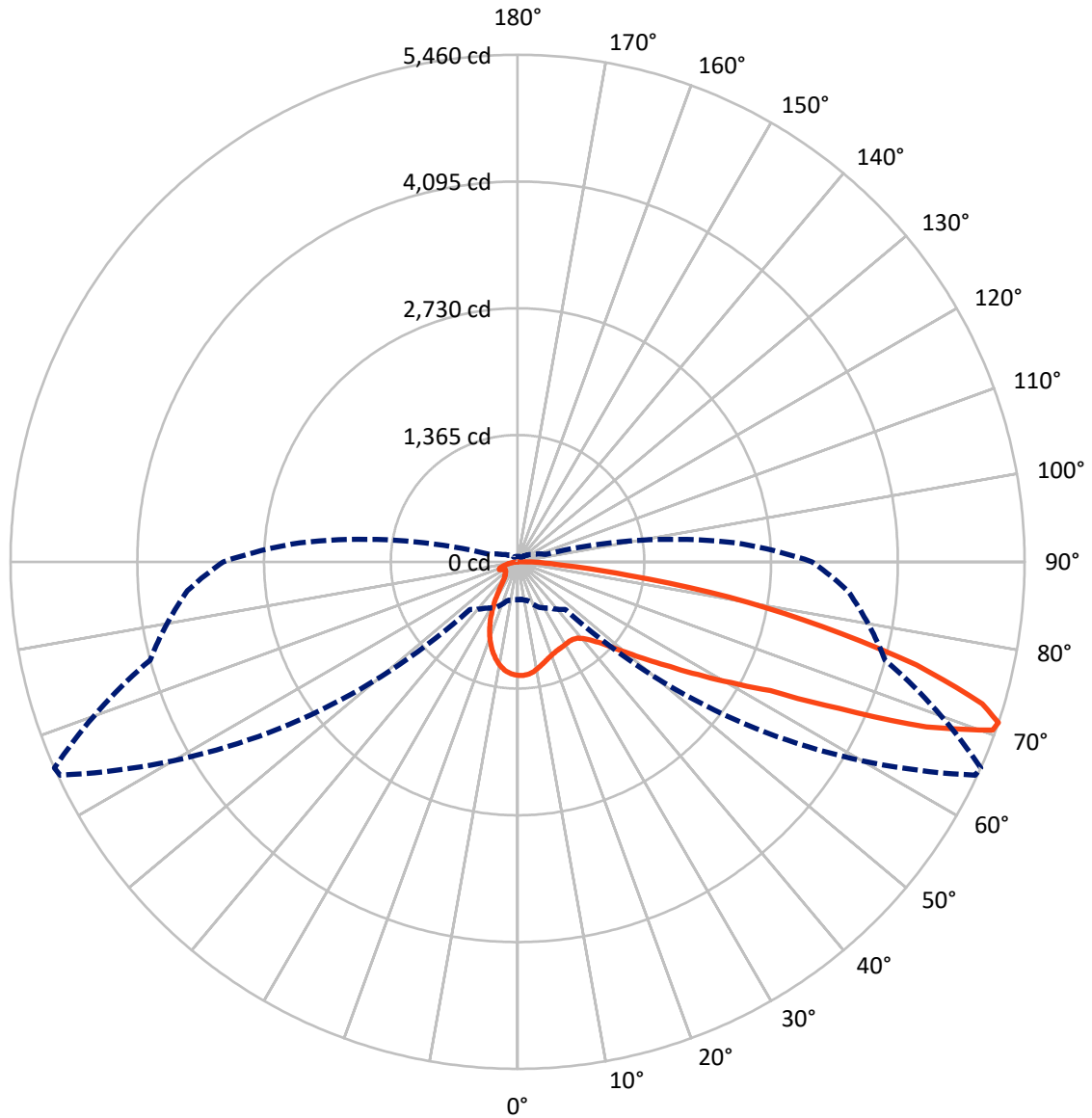
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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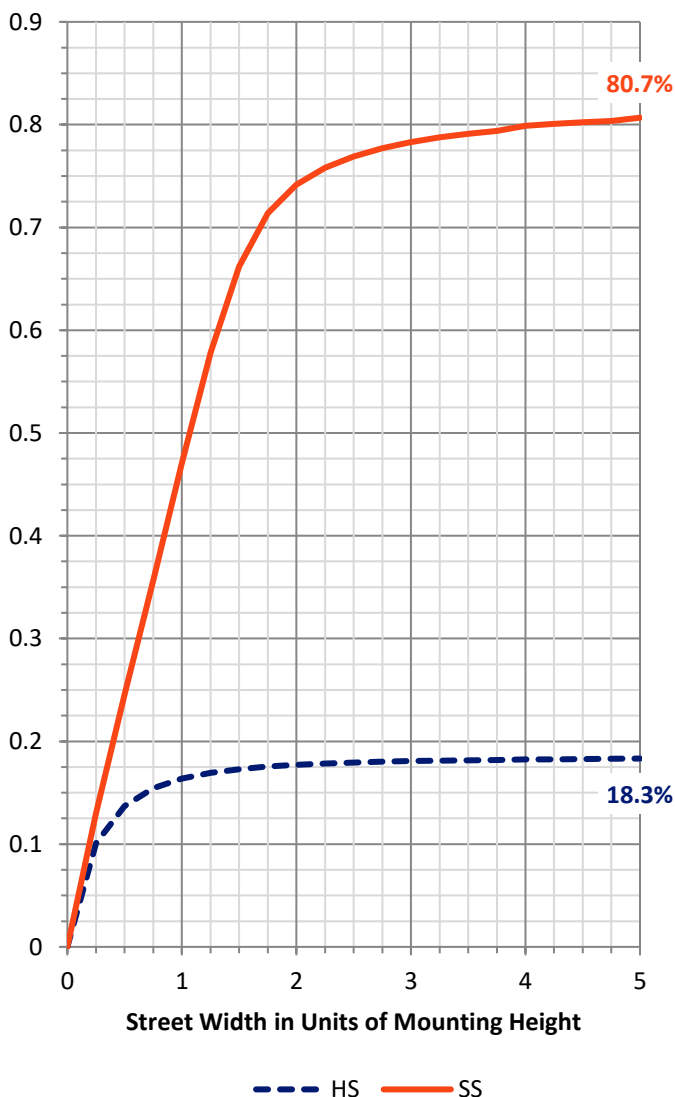
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	989.3	0.0	989.3
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	4348.7	0.0	4348.7
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	5338.0	0.0	5338.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.6	2.0
10°-20°	258.2	4.8
20°-30°	346.8	6.5
30°-40°	456.2	8.5
40°-50°	663.6	12.4
50°-60°	1036.7	19.4
60°-70°	1298.6	24.3
70°-80°	990.5	18.6
80°-90°	179.9	3.4
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°	5338.0	100.0
0°-180°	5338.0	100.0

**Coefficient of Utilization**

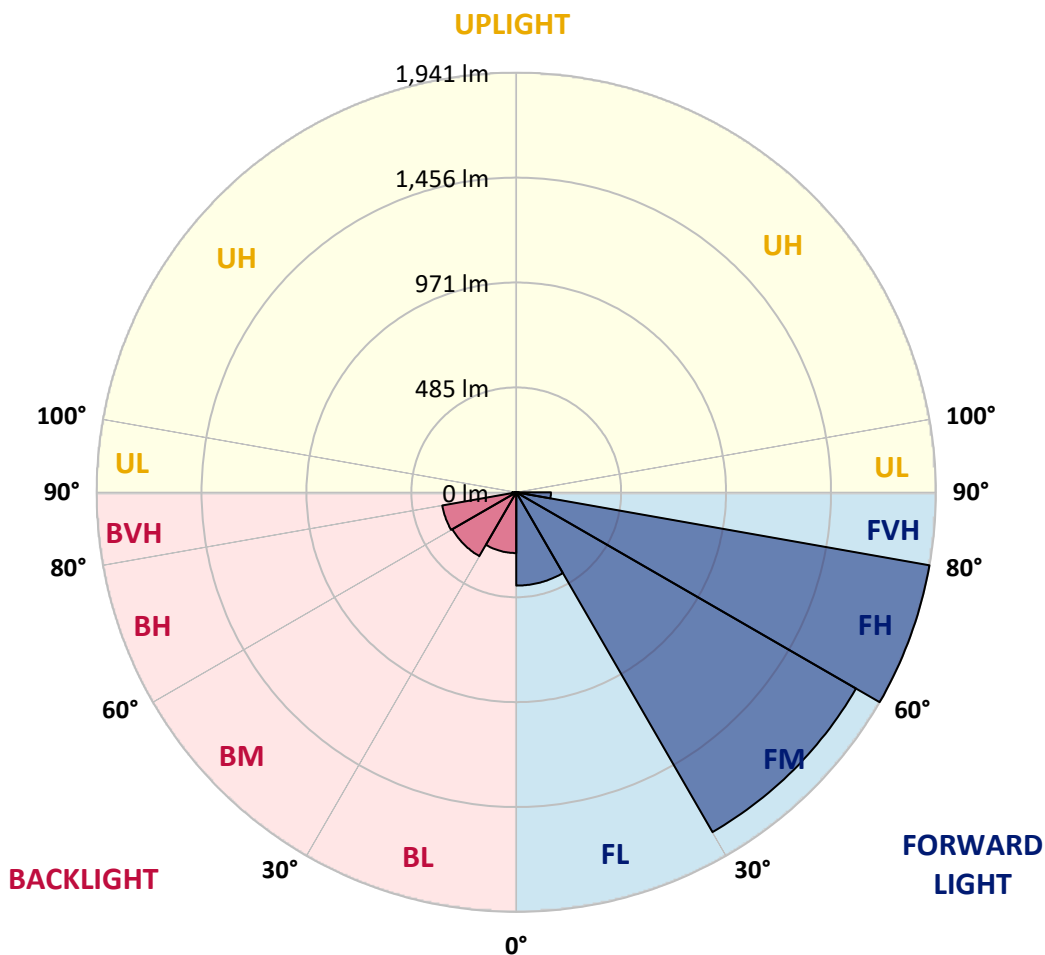


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	431.7	8.1			
FM (30°-60°)	1815.2	34.0			
FH (60°-80°)	1941.5	36.4			G2/5000
FVH (80°-90°)	160.4	3.0			G2/225
BL (0°-30°)	280.9	5.3	B1/500		
BM (30°-60°)	341.3	6.4	B1/1000		
BH (60°-80°)	347.6	6.5	B1/500		G1/500
BVH (80°-90°)	19.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1222.8	1222.8	1222.8	1222.8	1222.8	1222.8	1222.8	1222.8	1222.8	1222.8	1222.8
2.5°	1200.2	1198.3	1203.8	1209.6	1211.8	1215.5	1221.0	1224.1	1223.9	1224.5	1222.6
5°	1120.5	1118.1	1129.2	1138.2	1155.6	1175.1	1198.9	1215.8	1216.2	1225.8	1228.4
7.5°	1045.2	1043.5	1056.2	1070.8	1090.9	1120.7	1159.2	1195.7	1198.0	1223.9	1233.0
10°	984.7	984.3	996.7	1012.5	1036.0	1069.3	1113.5	1167.0	1170.3	1215.1	1233.7
12.5°	937.5	938.3	949.0	967.0	991.7	1026.6	1074.5	1134.7	1140.1	1201.1	1229.5
15°	902.7	905.7	914.3	932.6	956.9	992.3	1041.5	1104.9	1113.0	1185.4	1227.1
17.5°	882.8	886.1	892.2	907.3	930.2	964.3	1010.9	1080.4	1087.7	1173.4	1227.3
20°	876.9	879.7	883.2	892.4	911.7	942.7	986.7	1058.3	1066.2	1163.9	1229.1
22.5°	888.5	890.5	890.9	890.2	902.0	927.2	969.2	1042.0	1050.5	1157.6	1230.4
25°	913.4	916.2	914.1	907.3	903.4	918.9	960.2	1031.3	1039.8	1153.0	1227.8
27.5°	950.8	951.2	949.5	940.7	922.4	919.8	957.4	1025.1	1033.2	1147.6	1222.5
30°	1001.7	1004.1	1001.1	989.1	959.3	934.6	960.8	1019.0	1026.4	1140.8	1213.8
32.5°	1061.2	1067.1	1066.9	1054.4	1011.6	967.6	974.4	1015.3	1021.0	1133.6	1203.3
35°	1122.9	1131.1	1146.2	1140.8	1087.9	1019.7	1000.6	1021.2	1025.1	1132.7	1195.9
37.5°	1187.1	1195.2	1226.3	1240.7	1178.8	1094.4	1041.8	1042.0	1043.9	1144.0	1195.4
40°	1254.2	1262.8	1309.6	1347.1	1296.6	1188.9	1108.4	1085.5	1083.5	1171.6	1206.2
42.5°	1348.2	1355.9	1412.1	1459.8	1427.2	1310.0	1200.3	1152.6	1148.4	1225.8	1241.1
45°	1467.0	1473.7	1533.4	1584.4	1567.7	1448.2	1315.9	1244.9	1244.2	1316.1	1311.7
47.5°	1608.4	1613.5	1667.2	1716.6	1722.7	1607.3	1461.1	1387.4	1375.4	1439.9	1421.0
50°	1755.6	1761.4	1797.8	1850.9	1896.1	1820.1	1648.0	1561.9	1545.9	1603.4	1575.8
52.5°	1853.1	1860.7	1892.4	1959.7	2091.1	2053.5	1869.0	1773.5	1749.2	1801.5	1780.3
55°	1809.6	1826.6	1875.1	1982.9	2247.0	2409.9	2141.6	2020.3	1992.8	2036.3	2023.8
57.5°	1611.9	1635.1	1701.3	1867.7	2268.9	2724.0	2553.7	2310.9	2291.6	2279.1	2284.8
60°	1250.5	1272.8	1354.8	1571.7	2116.1	2953.2	3173.8	2669.2	2641.2	2522.7	2527.9
62.5°	885.0	873.8	930.0	1088.7	1719.5	2980.1	3879.5	3148.4	3056.3	2780.0	2757.3
65°	674.9	672.3	697.6	748.1	1041.5	2658.2	4299.9	3953.8	3809.9	3082.6	3029.2
67.5°	554.6	550.0	574.8	648.4	670.7	1714.9	4309.1	4888.2	4746.8	3459.3	3343.6
70°	456.0	450.8	474.0	568.9	619.8	869.7	3626.7	5435.4	5427.8	3936.3	3581.0
71°	408.8	405.1	432.9	538.3	608.9	724.9	3131.3	5436.9	5459.5	4097.7	3566.9
72.5°	332.8	334.1	363.6	479.2	600.8	640.1	2301.4	5183.4	5231.4	4251.6	3439.6
75°	221.2	222.3	261.0	368.6	582.6	626.3	1264.9	4349.5	4437.6	4159.5	3138.6
77.5°	148.5	148.2	174.5	252.9	507.6	626.3	741.6	3253.1	3349.8	3309.7	2419.7
80°	102.3	101.5	120.2	174.5	384.3	633.8	573.4	2279.8	2309.1	1787.3	983.4
82.5°	62.7	63.2	78.5	123.3	261.5	570.4	541.3	1243.1	1211.2	501.3	245.7
85°	35.9	35.8	50.1	83.5	167.9	481.4	527.8	535.0	490.8	150.9	88.8
87.5°	12.9	13.8	26.9	46.3	96.2	335.2	447.8	278.3	250.8	68.2	40.2
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°	1222.8	1222.8	1222.8	1222.8	1222.8	1222.8	1222.8	1222.8	1222.8	1222.8	1222.8
2.5°	1221.4	1222.5	1221.2	1213.8	1207.5	1197.4	1191.7	1183.8	1181.4	1180.3	1183.2
5°	1226.0	1226.3	1215.5	1196.1	1174.4	1148.7	1130.3	1107.6	1097.0	1092.3	1095.3
7.5°	1230.2	1228.5	1204.8	1167.7	1127.5	1082.9	1043.3	1007.0	985.8	977.2	977.9
10°	1230.8	1223.8	1185.6	1128.3	1066.0	1000.6	939.7	883.7	848.3	825.3	832.3
12.5°	1225.0	1213.2	1157.4	1077.2	990.8	901.6	819.4	735.4	684.9	661.5	662.2
15°	1220.6	1199.2	1122.8	1017.2	901.0	782.9	670.7	571.9	518.1	494.1	482.9
17.5°	1216.9	1184.1	1082.6	949.5	795.1	645.2	510.3	422.2	392.7	385.7	382.8
20°	1211.8	1168.1	1037.8	871.2	674.4	491.2	372.7	329.2	329.3	337.5	338.6
22.5°	1204.6	1149.8	990.1	783.3	544.8	357.7	292.1	279.6	292.3	307.8	310.5
25°	1193.9	1128.3	937.0	686.1	415.4	275.0	249.5	249.0	264.5	280.7	283.1
27.5°	1178.8	1100.1	878.0	581.8	306.1	233.7	223.6	227.4	238.9	250.6	251.6
30°	1158.5	1067.3	812.9	471.8	240.0	208.1	207.0	210.5	217.5	225.8	226.5
32.5°	1136.2	1033.9	743.5	365.3	205.5	194.3	195.4	197.0	200.3	203.7	204.4
35°	1115.9	999.8	672.3	277.6	189.1	185.2	184.5	184.1	184.5	183.4	183.6
37.5°	1102.9	971.6	598.2	221.0	179.7	177.3	175.1	172.3	169.2	167.3	167.7
40°	1098.1	950.6	523.2	190.9	172.0	170.3	166.1	160.2	156.5	155.4	155.4
42.5°	1111.0	939.7	450.8	175.8	165.5	162.7	155.7	148.9	146.2	146.0	145.8
45°	1150.4	944.2	381.9	167.5	159.6	154.3	145.0	139.3	137.5	137.9	137.7
47.5°	1221.2	972.0	322.9	162.0	153.7	146.7	136.4	131.8	129.6	129.6	129.7
50°	1341.5	1037.1	275.9	157.4	148.7	139.7	130.1	124.4	121.5	121.3	121.3
52.5°	1516.8	1153.5	246.6	153.5	143.2	133.4	123.8	116.7	113.2	112.4	112.1
55°	1736.5	1320.5	238.5	150.9	135.8	126.6	116.3	109.1	105.2	103.6	103.4
57.5°	1982.1	1523.6	254.5	147.8	128.3	118.5	108.0	101.2	97.1	95.1	94.9
60°	2230.8	1745.3	319.9	143.4	122.0	109.7	99.5	93.3	89.2	87.0	86.6
62.5°	2479.8	1979.0	453.6	143.0	117.6	101.2	90.9	85.5	81.6	79.2	78.7
65°	2760.6	2234.8	605.4	152.8	116.1	93.4	82.0	77.8	74.5	72.2	72.1
67.5°	3083.2	2523.6	590.9	172.9	121.1	86.4	73.7	70.4	68.0	66.2	66.0
70°	3234.5	2478.5	367.3	187.1	128.1	79.6	65.8	63.4	61.6	60.3	59.7
71°	3171.1	2353.3	308.0	185.4	127.4	76.7	62.7	60.8	59.0	57.9	57.3
72.5°	2998.2	2146.2	256.9	172.5	119.1	71.3	58.6	56.8	55.1	53.8	53.4
75°	2690.4	1916.7	205.7	137.9	94.9	60.3	51.4	49.4	48.1	47.4	46.6
77.5°	1977.7	1367.9	159.1	108.9	69.8	49.2	43.9	42.4	41.1	40.0	39.4
80°	757.7	529.9	107.1	81.3	51.2	38.9	35.4	34.6	33.4	32.6	32.6
82.5°	204.0	158.3	57.1	49.2	34.3	28.4	27.1	26.7	25.6	24.1	24.3
85°	82.6	69.8	32.1	27.1	21.0	16.8	18.2	18.4	17.1	15.3	15.5
87.5°	36.3	29.7	17.9	12.0	9.2	6.5	8.3	8.3	7.6	6.3	5.7
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)