

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: P382847

Luminaire Tested: **GAN-SA2A-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8934.5 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

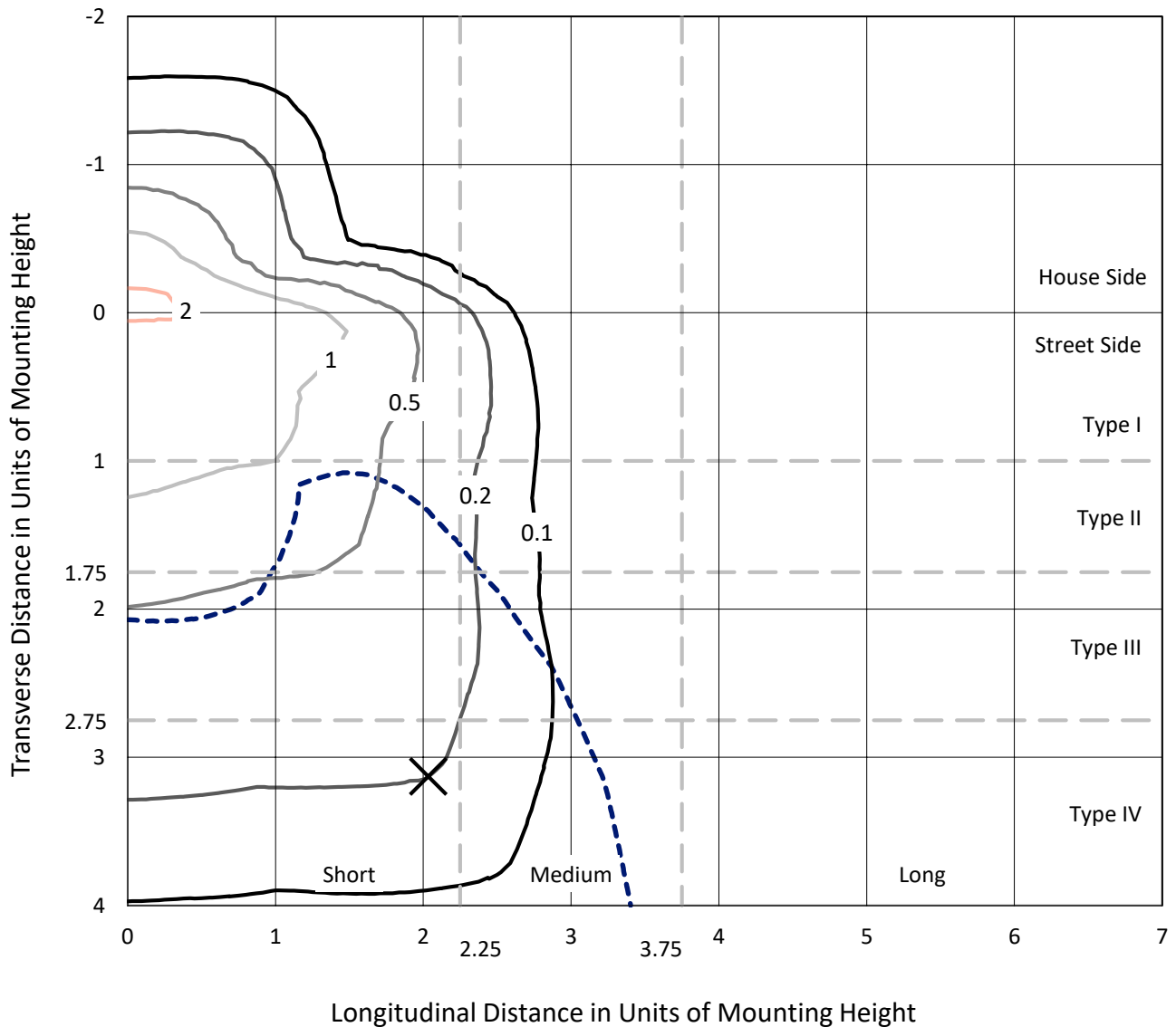
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

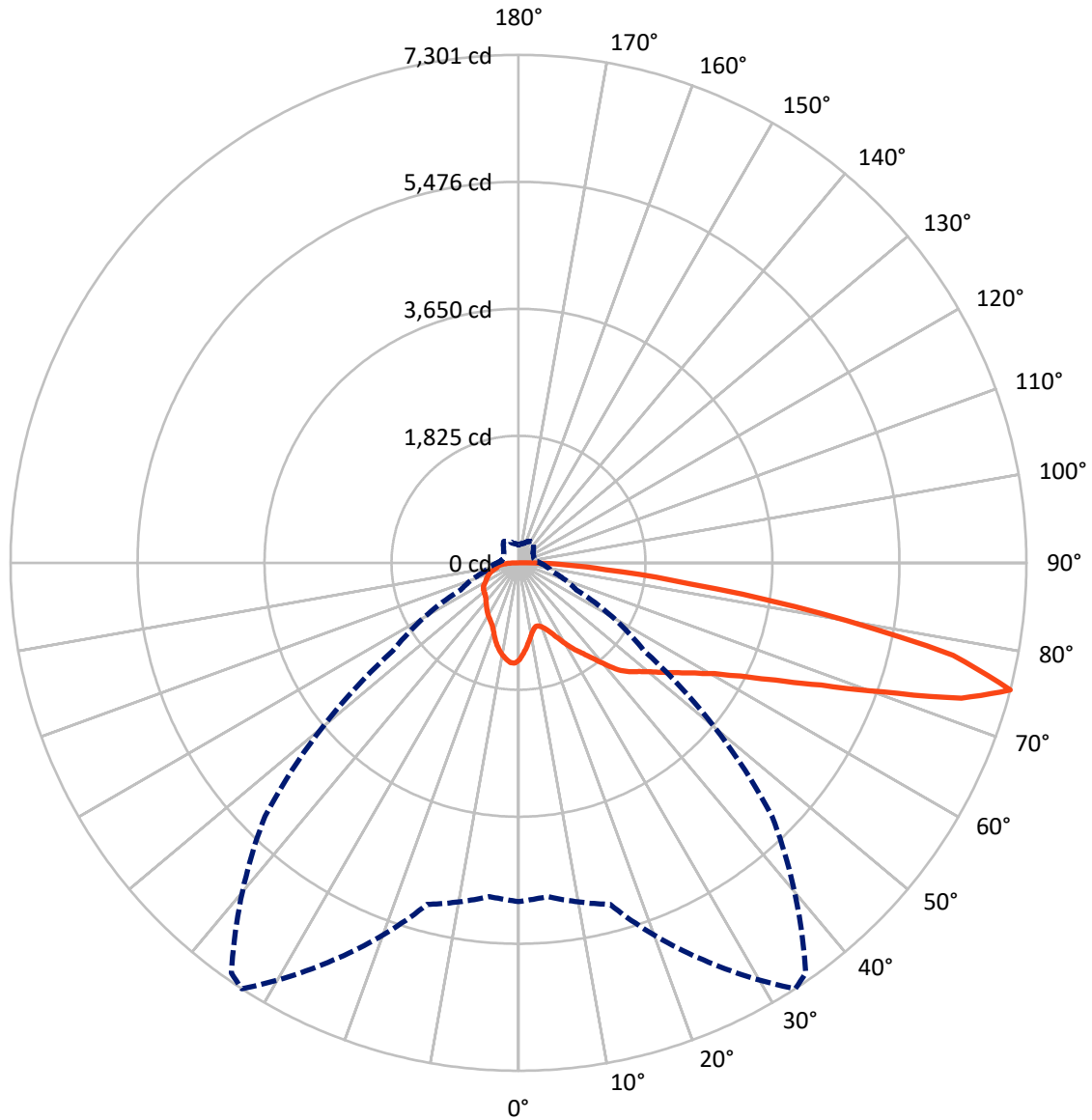
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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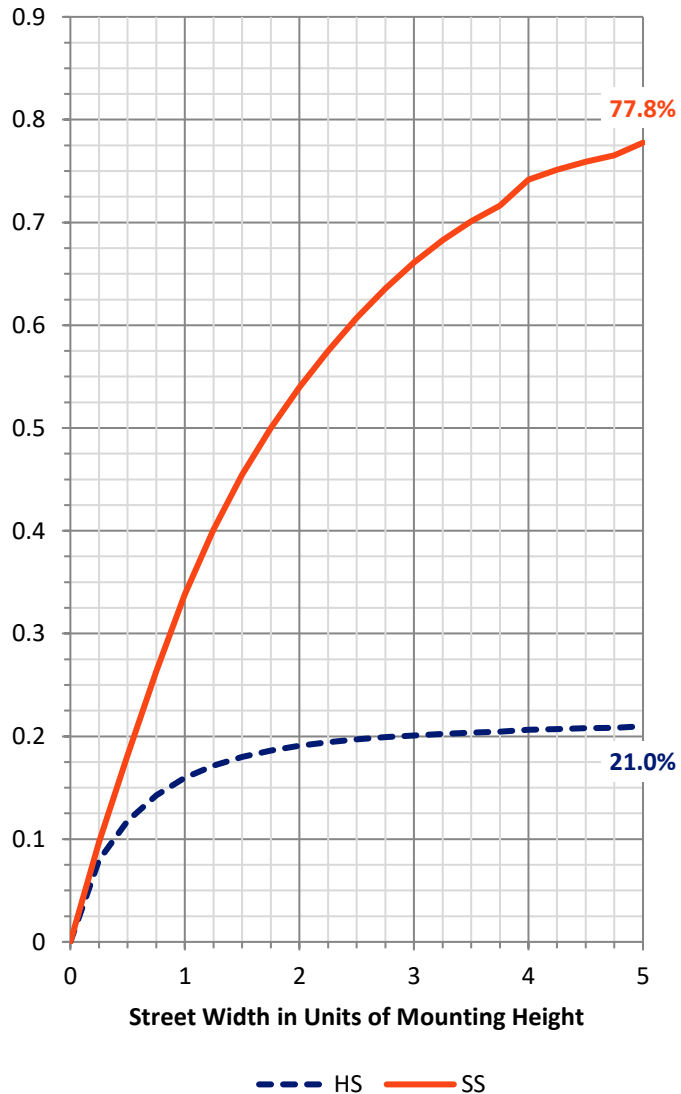
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1918.5	0.0	1918.5
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	7016.0	0.0	7016.0
	% Fixture	78.5	0.0	78.5
Total	Lumens	8934.5	0.0	8934.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	1.4
10°-20°	342.1	3.8
20°-30°	558.6	6.3
30°-40°	831.9	9.3
40°-50°	1193.2	13.4
50°-60°	1638.1	18.3
60°-70°	2050.9	23.0
70°-80°	1855.3	20.8
80°-90°	338.0	3.8
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°	8934.5	100.0
0°-180°	8934.5	100.0

Coefficient of Utilization



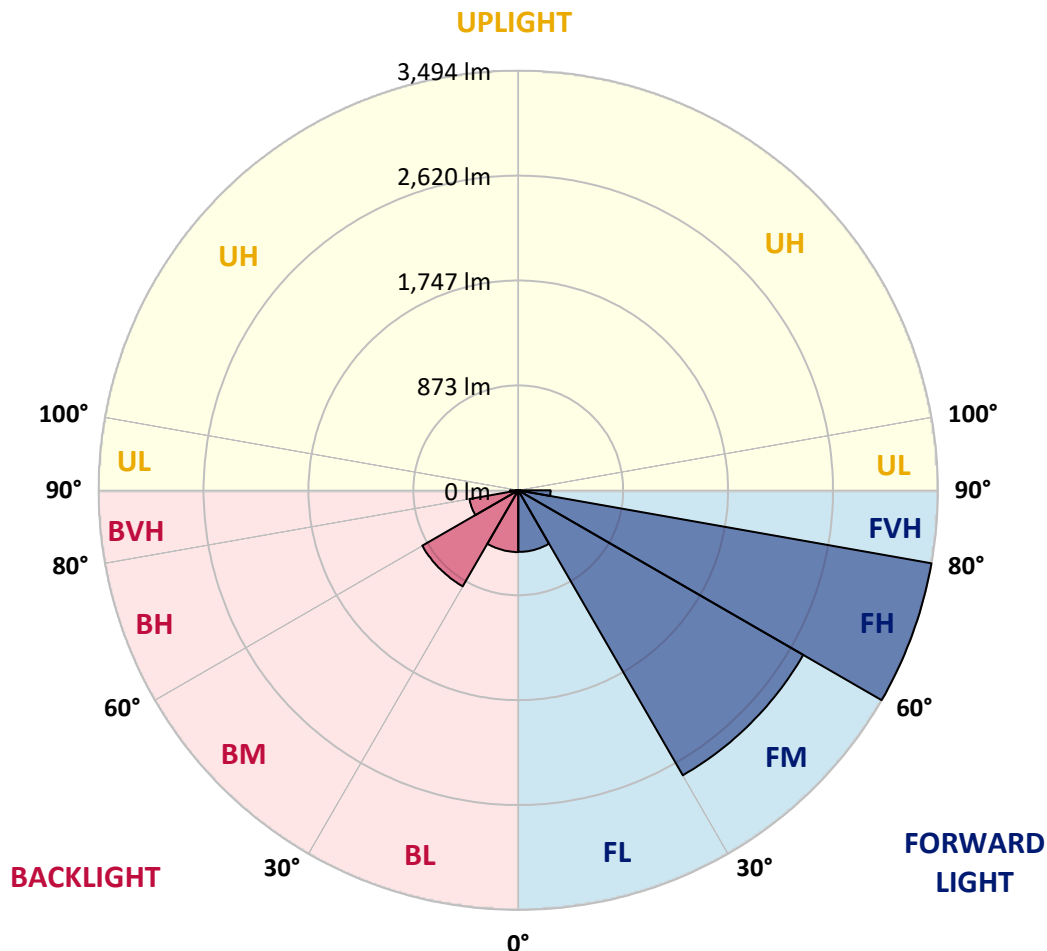
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	513.1	5.7			
FM (30°-60°)	2740.0	30.7			
FH (60°-80°)	3493.7	39.1			G2/5000
FVH (80°-90°)	269.2	3.0			G3/500
BL (0°-30°)	513.9	5.8	B2/1000		
BM (30°-60°)	923.3	10.3	B1/1000		
BH (60°-80°)	412.5	4.6	B1/500		G1/500
BVH (80°-90°)	68.8	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5
2.5°	1296.8	1291.9	1301.2	1302.4	1310.4	1313.5	1324.6	1341.9	1356.1	1372.4	1387.3
5°	1179.2	1175.8	1188.8	1198.1	1215.7	1223.0	1249.3	1286.0	1318.7	1355.8	1389.4
7.5°	1067.6	1065.7	1080.1	1101.2	1121.5	1131.7	1177.1	1230.5	1285.1	1345.0	1396.5
10°	973.4	972.8	986.7	1007.4	1037.3	1048.7	1107.3	1177.7	1254.2	1336.7	1408.5
12.5°	920.6	922.8	929.2	946.5	974.3	985.8	1050.9	1133.6	1228.3	1333.9	1426.1
15°	933.6	937.0	925.9	925.2	945.0	953.9	1015.0	1102.1	1209.8	1338.4	1451.7
17.5°	988.8	989.4	960.1	941.6	953.6	958.3	1003.9	1084.2	1199.0	1349.0	1483.9
20°	1066.6	1065.0	1013.2	982.3	988.8	990.0	1019.7	1084.5	1198.1	1367.2	1525.5
22.5°	1169.7	1158.3	1088.5	1046.5	1045.0	1043.1	1060.1	1107.3	1211.7	1396.9	1575.2
25°	1304.3	1293.5	1197.4	1140.0	1127.7	1123.1	1125.5	1156.1	1238.5	1428.6	1630.8
27.5°	1453.9	1435.0	1342.5	1261.3	1235.7	1229.3	1214.5	1224.9	1267.8	1459.2	1696.8
30°	1579.3	1569.0	1488.1	1391.9	1361.6	1352.4	1313.5	1302.0	1310.1	1500.8	1780.1
32.5°	1649.3	1642.5	1593.4	1515.6	1487.6	1474.5	1419.7	1396.9	1377.9	1566.6	1893.1
35°	1734.2	1729.8	1700.2	1643.7	1602.1	1588.5	1545.9	1522.1	1473.7	1656.9	2039.1
37.5°	1842.1	1837.6	1838.1	1792.5	1742.7	1730.2	1702.0	1677.1	1597.7	1775.8	2197.7
40°	1964.4	1955.4	1952.1	1949.8	1918.4	1911.3	1896.4	1862.5	1753.3	1917.8	2354.1
42.5°	2148.3	2116.5	2048.7	2074.3	2105.4	2101.7	2113.8	2065.0	1926.1	2085.6	2506.9
45°	2325.8	2273.6	2156.3	2161.8	2230.1	2250.8	2340.9	2306.3	2113.4	2269.6	2665.0
47.5°	2406.7	2367.2	2267.5	2267.8	2335.3	2378.2	2575.7	2551.0	2310.3	2478.6	2857.8
50°	2497.0	2457.5	2368.1	2401.7	2460.6	2506.3	2802.6	2789.9	2497.7	2707.3	3089.0
52.5°	2595.9	2528.9	2472.0	2532.2	2614.9	2668.0	3029.8	2995.2	2669.5	2937.4	3354.7
55°	2597.1	2578.8	2622.0	2666.2	2789.9	2855.0	3267.7	3176.3	2809.6	3163.6	3571.1
57.5°	2744.9	2715.3	2806.9	2827.2	2989.0	3062.5	3504.4	3334.0	2952.3	3337.1	3687.7
60°	2940.5	2915.2	2990.3	3043.9	3235.3	3333.4	3757.1	3496.1	3064.3	3468.0	3682.1
62.5°	3278.5	3249.8	3248.9	3324.1	3581.9	3696.0	4040.8	3655.0	3108.8	3493.9	3525.1
65°	3773.2	3727.5	3641.4	3677.2	4060.5	4174.4	4357.7	3770.1	3050.1	3355.0	3120.5
67.5°	4254.7	4253.1	4147.2	4220.7	4692.6	4784.0	4718.8	3781.5	2867.1	2871.4	2402.6
70°	4734.6	4740.7	4722.9	4978.4	5546.5	5641.5	5103.4	3628.1	2455.7	2073.6	1439.4
72.5°	5114.8	5113.3	5203.3	5862.2	6654.8	6633.5	5427.4	3163.3	1763.1	1119.3	687.9
75°	4868.5	4814.8	5083.3	6299.9	7300.7	7196.8	5151.8	2206.6	915.1	509.6	370.4
77.5°	3175.4	3226.3	3620.5	5204.3	6385.9	6259.4	3779.7	1029.5	431.1	334.2	268.5
80°	1149.9	1203.7	1695.2	2948.0	4399.7	4379.0	1861.3	423.1	291.7	252.4	195.6
82.5°	395.6	415.4	668.8	1309.2	2484.1	2576.7	700.2	240.4	212.0	179.0	134.0
85°	155.2	177.7	305.8	629.9	1253.0	1262.2	283.7	143.8	147.6	117.3	73.4
87.5°	59.0	71.6	146.3	292.6	572.2	525.6	101.5	68.5	83.9	69.8	34.8
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°	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5
2.5°	1398.6	1405.1	1418.7	1428.0	1437.8	1440.6	1441.8	1444.4	1446.8	1445.9	1446.2
5°	1407.3	1420.0	1441.8	1451.2	1455.4	1450.5	1440.9	1433.3	1427.7	1424.6	1423.7
7.5°	1421.5	1439.4	1462.9	1461.3	1451.4	1429.6	1404.9	1386.3	1370.9	1365.4	1362.3
10°	1440.4	1461.3	1477.7	1460.1	1431.4	1393.4	1356.4	1327.6	1304.5	1295.6	1294.0
12.5°	1464.4	1485.7	1488.8	1451.4	1403.9	1352.0	1301.7	1263.8	1229.3	1218.1	1215.7
15°	1495.6	1515.6	1496.5	1436.4	1369.9	1300.3	1235.1	1183.5	1147.1	1133.6	1128.7
17.5°	1528.3	1547.4	1498.0	1411.3	1325.5	1238.8	1157.0	1104.3	1062.6	1046.9	1045.0
20°	1567.5	1576.1	1491.6	1375.5	1264.4	1159.2	1073.0	1023.4	1001.1	990.0	988.8
22.5°	1616.0	1606.6	1476.8	1327.1	1187.0	1067.2	997.1	974.0	968.4	966.0	966.9
25°	1667.2	1638.8	1454.8	1263.8	1089.2	975.2	941.6	948.0	955.5	954.6	954.6
27.5°	1723.6	1671.5	1421.2	1179.9	980.8	900.0	904.0	927.7	938.8	938.5	938.2
30°	1796.2	1708.6	1378.3	1078.9	879.6	846.9	871.3	900.2	915.3	914.8	915.1
32.5°	1885.4	1749.3	1320.0	966.3	806.4	807.7	835.8	864.5	882.1	880.5	880.8
35°	1989.7	1794.9	1241.0	855.2	758.0	776.4	798.7	818.7	835.4	833.3	831.1
37.5°	2103.2	1839.7	1136.0	755.9	718.5	747.5	766.0	769.4	777.1	771.5	767.5
40°	2211.3	1873.9	1000.9	674.3	678.6	722.8	734.8	721.2	707.3	705.5	700.0
42.5°	2305.4	1885.4	864.1	609.2	636.7	696.9	704.2	675.8	650.9	639.1	634.2
45°	2404.8	1889.4	736.7	554.6	596.3	673.7	681.7	643.8	608.6	583.3	575.0
47.5°	2534.7	1918.4	637.6	514.1	565.4	658.3	669.7	618.2	572.5	536.4	528.7
50°	2704.7	1975.8	557.1	483.3	545.3	648.1	661.0	593.2	542.9	499.3	491.7
52.5°	2893.7	2028.5	492.0	458.3	525.9	630.2	649.9	575.2	515.1	465.1	456.7
55°	3025.8	1988.1	439.5	432.3	500.6	604.6	634.6	560.1	475.3	431.8	424.3
57.5°	3051.0	1849.9	399.6	405.5	470.1	572.5	610.7	526.5	453.7	417.2	409.5
60°	2981.9	1657.3	370.0	380.8	437.4	532.1	566.3	502.8	433.0	401.9	395.3
62.5°	2808.2	1460.1	348.1	358.6	406.8	491.0	538.5	477.8	412.0	384.3	377.7
65°	2457.2	1225.8	327.2	338.9	378.4	455.5	513.6	454.6	391.3	370.0	363.9
67.5°	1854.8	918.1	307.4	317.8	353.1	424.7	486.4	431.8	371.3	357.7	350.3
70°	1092.2	575.0	284.9	296.0	326.5	392.6	457.4	406.8	346.3	340.1	330.5
72.5°	508.3	346.0	259.2	270.1	293.2	349.7	420.0	374.0	316.6	303.0	290.1
75°	303.4	253.1	229.0	238.6	255.0	304.0	373.1	340.8	288.6	270.6	257.1
77.5°	226.8	193.5	195.6	205.9	219.1	266.0	330.5	314.5	267.0	253.1	243.8
80°	163.3	146.9	159.6	170.7	184.5	241.9	316.6	290.7	241.4	222.8	214.2
82.5°	108.9	105.5	120.1	131.4	145.0	211.7	297.5	254.6	206.2	182.7	163.6
85°	60.2	63.5	80.9	85.8	97.5	149.0	243.8	204.7	155.2	125.0	119.4
87.5°	25.0	29.3	43.5	42.0	51.9	88.9	160.5	123.4	98.7	73.8	57.4
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)