

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: P382877

Luminaire Tested: **GAN-SA2B-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382877
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-SA2B-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10815.3 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

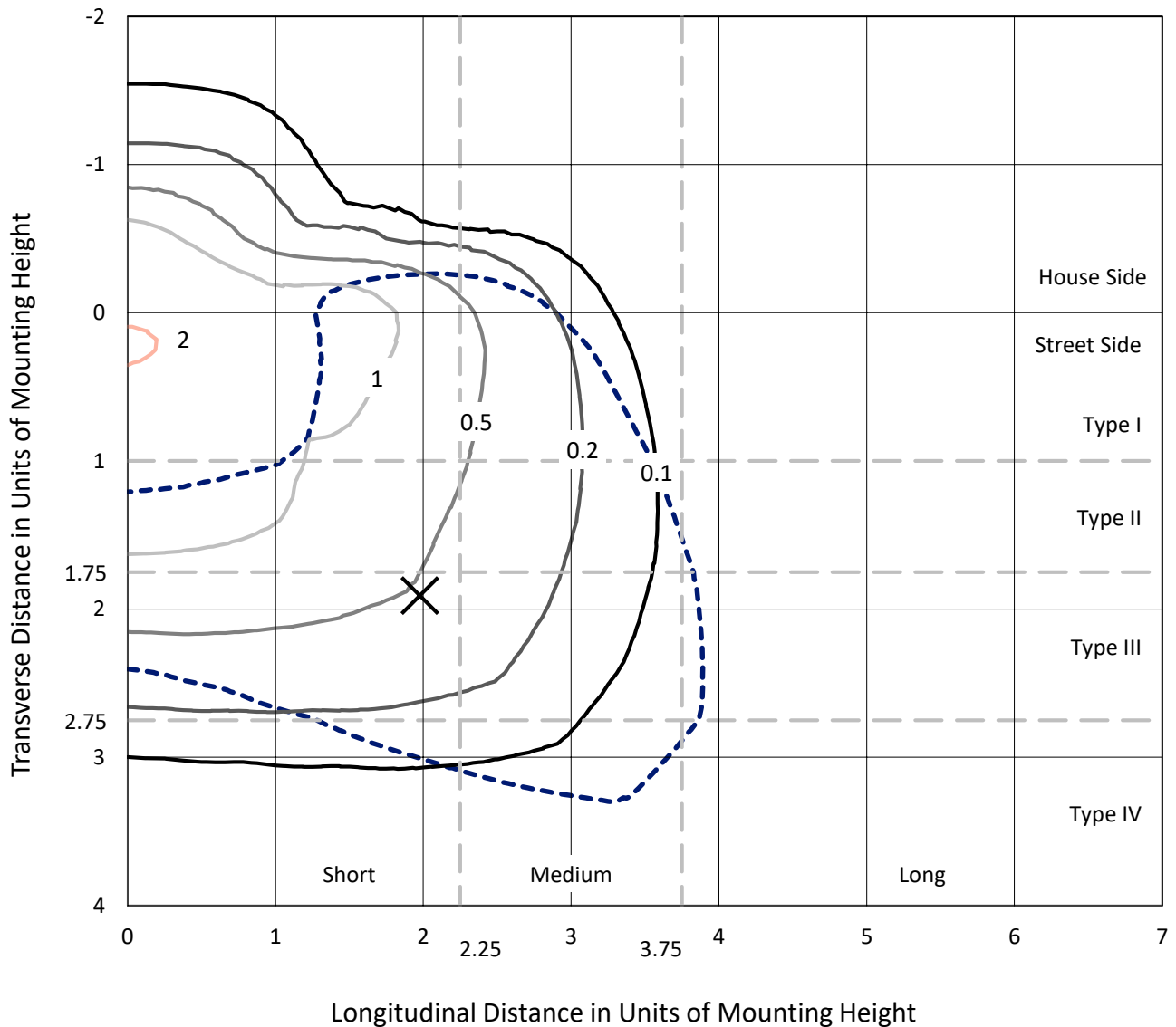
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

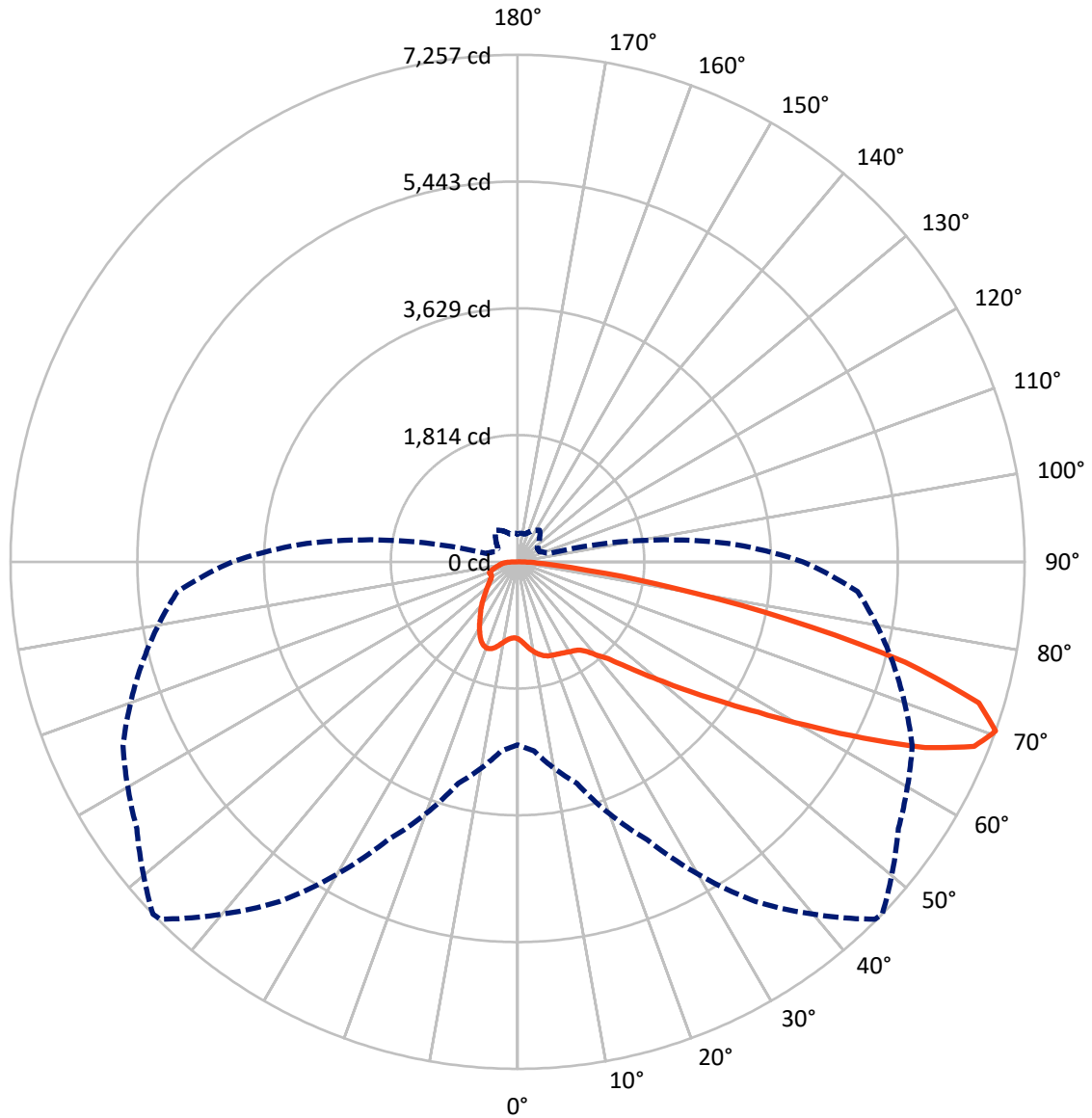
✕ Max cd
 - - - 1/2 Max cd



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

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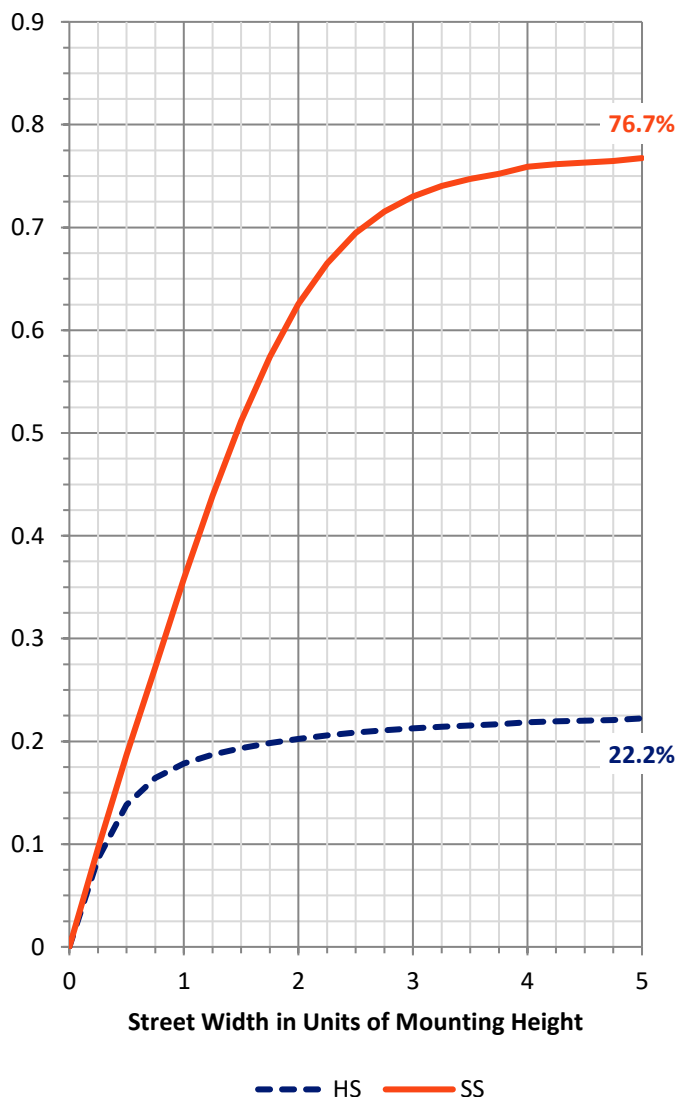
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2478.8	0.0	2478.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	8336.4	0.0	8336.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	10815.3	0.0	10815.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	1.0
10°-20°	374.2	3.5
20°-30°	624.0	5.8
30°-40°	885.5	8.2
40°-50°	1302.5	12.0
50°-60°	2205.8	20.4
60°-70°	3131.1	29.0
70°-80°	1902.2	17.6
80°-90°	277.6	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°	10815.3	100.0
0°-180°	10815.3	100.0

Coefficient of Utilization

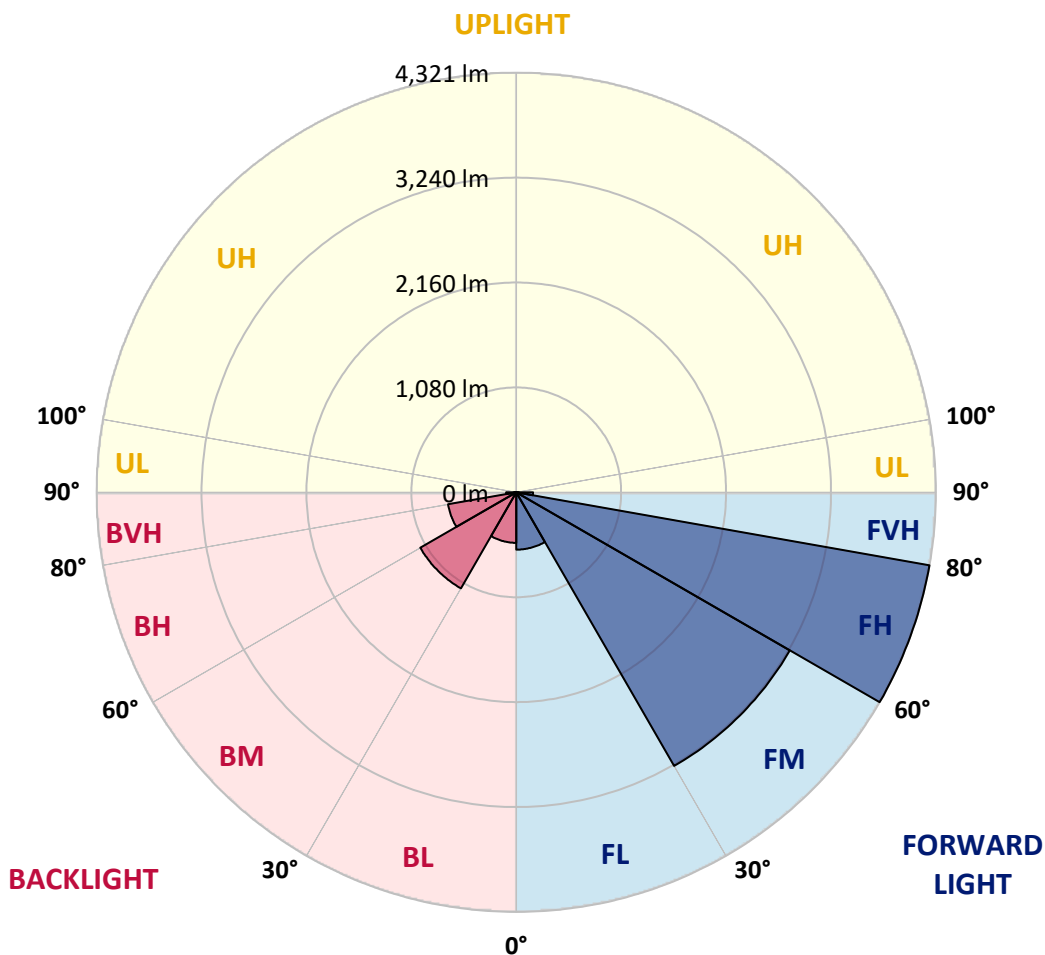


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	590.1	5.5			
FM (30°-60°)	3252.7	30.1			
FH (60°-80°)	4320.6	39.9			G2/5000
FVH (80°-90°)	172.9	1.6			G2/225
BL (0°-30°)	520.4	4.8	B2/1000		
BM (30°-60°)	1141.1	10.6	B2/2500		
BH (60°-80°)	712.6	6.6	B2/1000		G2/1000
BVH (80°-90°)	104.7	1.0			G2/225
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°	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8
2.5°	1157.0	1157.7	1159.2	1155.5	1145.2	1142.2	1141.1	1130.3	1123.4	1113.0	1104.1
5°	1249.6	1250.3	1248.1	1237.7	1214.7	1197.7	1196.2	1171.8	1149.6	1126.0	1108.2
7.5°	1346.2	1347.3	1340.2	1320.6	1288.4	1258.8	1256.9	1223.7	1190.0	1154.1	1127.4
10°	1431.6	1427.2	1415.8	1388.4	1350.2	1313.9	1312.5	1277.7	1238.8	1195.5	1160.0
12.5°	1488.6	1485.0	1470.2	1436.8	1395.0	1361.7	1358.8	1326.5	1288.8	1241.4	1198.8
15°	1520.1	1522.7	1502.7	1465.0	1424.2	1396.1	1393.5	1370.6	1336.9	1289.2	1240.3
17.5°	1524.2	1526.4	1507.2	1469.8	1436.4	1417.3	1416.1	1401.0	1376.5	1330.6	1279.5
20°	1500.4	1501.9	1486.1	1455.4	1433.5	1427.6	1427.2	1420.5	1402.4	1361.7	1312.1
22.5°	1466.1	1467.2	1455.7	1433.5	1426.1	1435.3	1437.9	1435.3	1422.4	1384.3	1337.6
25°	1457.6	1456.8	1445.0	1422.4	1428.7	1448.3	1451.6	1452.7	1443.9	1410.5	1370.2
27.5°	1498.7	1496.1	1473.4	1437.2	1441.3	1465.0	1469.4	1480.1	1474.5	1445.3	1407.2
30°	1617.4	1613.0	1566.8	1493.5	1473.4	1485.7	1491.2	1508.3	1509.4	1485.0	1456.5
32.5°	1818.1	1812.5	1729.6	1598.5	1527.9	1506.8	1512.0	1537.5	1551.2	1532.3	1501.6
35°	2071.6	2065.3	1956.5	1777.3	1618.9	1547.1	1550.8	1571.1	1598.5	1571.9	1531.2
37.5°	2335.9	2320.7	2216.0	1987.5	1763.6	1633.4	1633.4	1636.0	1648.9	1593.4	1566.0
40°	2598.6	2583.5	2488.7	2234.8	1950.9	1769.2	1760.7	1703.3	1693.0	1645.2	1636.0
42.5°	2842.9	2838.5	2782.6	2514.2	2170.8	1902.8	1890.9	1793.6	1795.8	1766.2	1766.6
45°	3102.8	3102.8	3057.2	2796.3	2426.9	2117.5	2105.7	1962.4	1984.6	1970.9	2003.9
47.5°	3314.8	3321.5	3315.2	3090.2	2724.9	2390.3	2368.8	2196.3	2258.5	2305.5	2401.3
50°	3531.4	3541.7	3542.9	3412.5	3085.0	2714.5	2690.0	2506.9	2645.7	2780.4	2968.7
52.5°	3845.6	3868.9	3776.0	3734.2	3526.2	3099.4	3075.4	2906.2	3137.9	3327.0	3651.7
55°	4136.9	4116.5	4050.3	4076.2	3998.5	3537.6	3519.5	3371.1	3686.4	3932.2	4353.8
57.5°	4294.5	4293.1	4359.7	4470.8	4507.8	4078.0	4062.9	3918.6	4305.0	4489.6	5012.9
60°	4479.6	4482.2	4647.3	4899.4	5051.9	4750.9	4744.3	4634.7	4905.6	5010.0	5530.0
62.5°	4505.5	4552.2	4836.4	5270.2	5561.2	5537.1	5551.9	5279.8	5443.0	5425.3	5916.1
65°	4207.6	4269.0	4783.5	5382.4	6067.4	6396.8	6410.5	5928.6	5866.9	5780.3	6054.1
67.5°	3596.9	3687.9	4246.8	5138.4	6234.4	7032.3	7051.6	6431.7	6218.5	5900.5	5721.8
70°	2617.6	2718.5	3281.2	4388.6	5936.8	7235.6	7257.4	6654.1	6231.8	5558.2	4884.6
72.5°	1581.2	1660.4	2124.1	3230.8	5010.8	6865.5	6904.4	6372.1	5689.6	4708.0	3606.9
75°	694.4	746.2	1027.1	1861.7	3587.3	5680.3	5728.8	5454.2	4622.9	3421.5	2131.9
77.5°	295.8	310.6	421.2	808.8	2027.9	3881.5	3948.1	3985.2	3136.4	1861.7	900.9
80°	184.4	190.2	238.4	366.1	949.0	2180.0	2251.8	2344.7	1557.5	684.4	314.6
82.5°	112.2	118.8	158.5	221.3	494.1	988.3	1022.7	1088.1	604.4	295.8	162.8
85°	67.4	72.2	97.0	139.9	281.3	388.6	388.3	429.4	284.6	190.2	85.9
87.5°	32.2	35.9	51.8	72.6	141.8	145.8	136.6	154.7	172.9	124.7	43.3
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°	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8
2.5°	1101.1	1099.6	1094.8	1091.1	1090.4	1088.1	1086.3	1087.4	1088.9	1089.3	1089.3
5°	1100.7	1096.7	1090.4	1087.8	1091.1	1095.6	1101.1	1108.5	1113.0	1116.3	1118.5
7.5°	1118.5	1110.8	1103.7	1102.2	1108.9	1120.7	1133.3	1148.9	1159.6	1167.0	1168.4
10°	1148.1	1138.5	1131.5	1132.9	1144.8	1161.8	1179.6	1199.6	1215.9	1225.8	1226.6
12.5°	1182.2	1172.9	1166.3	1172.5	1192.2	1212.9	1231.4	1248.8	1263.6	1273.6	1273.6
15°	1221.4	1214.7	1207.0	1221.4	1248.1	1266.5	1274.4	1282.8	1291.0	1298.4	1296.9
17.5°	1259.2	1252.8	1248.8	1265.8	1293.5	1302.1	1296.9	1290.7	1290.7	1294.7	1295.4
20°	1291.8	1286.2	1288.8	1305.5	1319.9	1311.0	1291.8	1271.7	1263.6	1265.8	1268.0
22.5°	1320.3	1317.7	1325.4	1333.2	1322.8	1291.8	1256.2	1229.2	1219.2	1218.5	1219.2
25°	1353.5	1353.2	1362.8	1348.7	1302.9	1245.5	1197.7	1171.4	1165.9	1170.3	1177.8
27.5°	1395.0	1399.1	1403.8	1352.4	1262.2	1175.5	1127.0	1108.9	1114.4	1125.2	1132.2
30°	1447.9	1459.0	1448.6	1343.2	1203.7	1095.6	1049.3	1044.1	1059.3	1074.4	1081.9
32.5°	1499.4	1516.7	1491.6	1319.2	1128.1	1010.8	974.9	973.5	991.9	1006.7	1017.1
35°	1540.9	1575.2	1523.8	1271.4	1040.8	932.8	906.4	896.4	903.1	920.5	932.4
37.5°	1594.9	1652.3	1546.0	1198.4	946.1	868.3	837.6	814.6	808.8	815.8	821.7
40°	1693.7	1769.6	1556.3	1096.7	853.5	803.9	772.8	739.2	715.8	698.8	699.1
42.5°	1855.1	1922.4	1549.7	973.1	768.0	741.0	705.8	667.0	629.2	590.7	587.7
45°	2117.1	2149.7	1529.7	842.0	692.9	675.1	642.2	603.3	553.0	509.3	505.2
47.5°	2536.5	2464.3	1498.7	727.6	626.7	619.2	588.8	544.1	490.8	455.6	452.6
50°	3108.3	2918.4	1483.5	636.6	568.2	570.4	545.6	498.2	447.9	421.9	419.0
52.5°	3792.3	3447.4	1512.7	566.3	521.1	528.9	510.4	466.0	423.8	403.5	400.5
55°	4501.8	3995.1	1544.1	515.2	476.8	491.9	485.6	449.0	410.8	392.0	389.4
57.5°	5109.3	4404.2	1481.3	473.8	437.1	460.8	466.3	438.2	404.2	387.2	384.2
60°	5491.6	4568.9	1316.2	434.9	405.7	436.0	455.2	435.3	406.8	405.3	403.1
62.5°	5672.9	4554.4	1068.6	404.2	386.0	425.3	463.4	451.9	436.3	449.7	450.8
65°	5591.5	4336.7	795.7	383.8	372.0	429.4	487.9	483.4	444.9	458.2	460.1
67.5°	5055.5	3817.5	589.2	366.1	356.4	440.8	532.3	493.7	428.2	437.8	432.0
70°	4086.2	3026.5	454.5	346.1	340.5	439.3	552.2	487.5	410.1	412.3	396.4
72.5°	2817.7	2063.8	369.7	327.5	317.6	400.5	538.2	471.9	394.9	377.9	356.8
75°	1532.3	1107.8	314.2	308.3	277.2	351.7	512.3	460.8	381.2	358.6	346.8
77.5°	602.9	459.7	272.8	282.1	242.4	310.6	483.4	439.7	362.4	332.7	326.8
80°	246.1	234.7	226.2	243.9	208.4	271.6	448.6	414.9	339.7	308.7	296.9
82.5°	139.5	145.8	175.8	192.5	169.2	250.2	432.0	394.9	312.7	276.5	262.4
85°	71.4	85.5	122.5	138.1	124.4	212.9	397.9	345.7	251.0	211.7	212.9
87.5°	34.5	47.8	77.3	86.6	80.7	154.0	297.3	250.6	195.4	154.7	149.9
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)