

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: P317735

Luminaire Tested: **GAN-SA1D-730-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7565 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

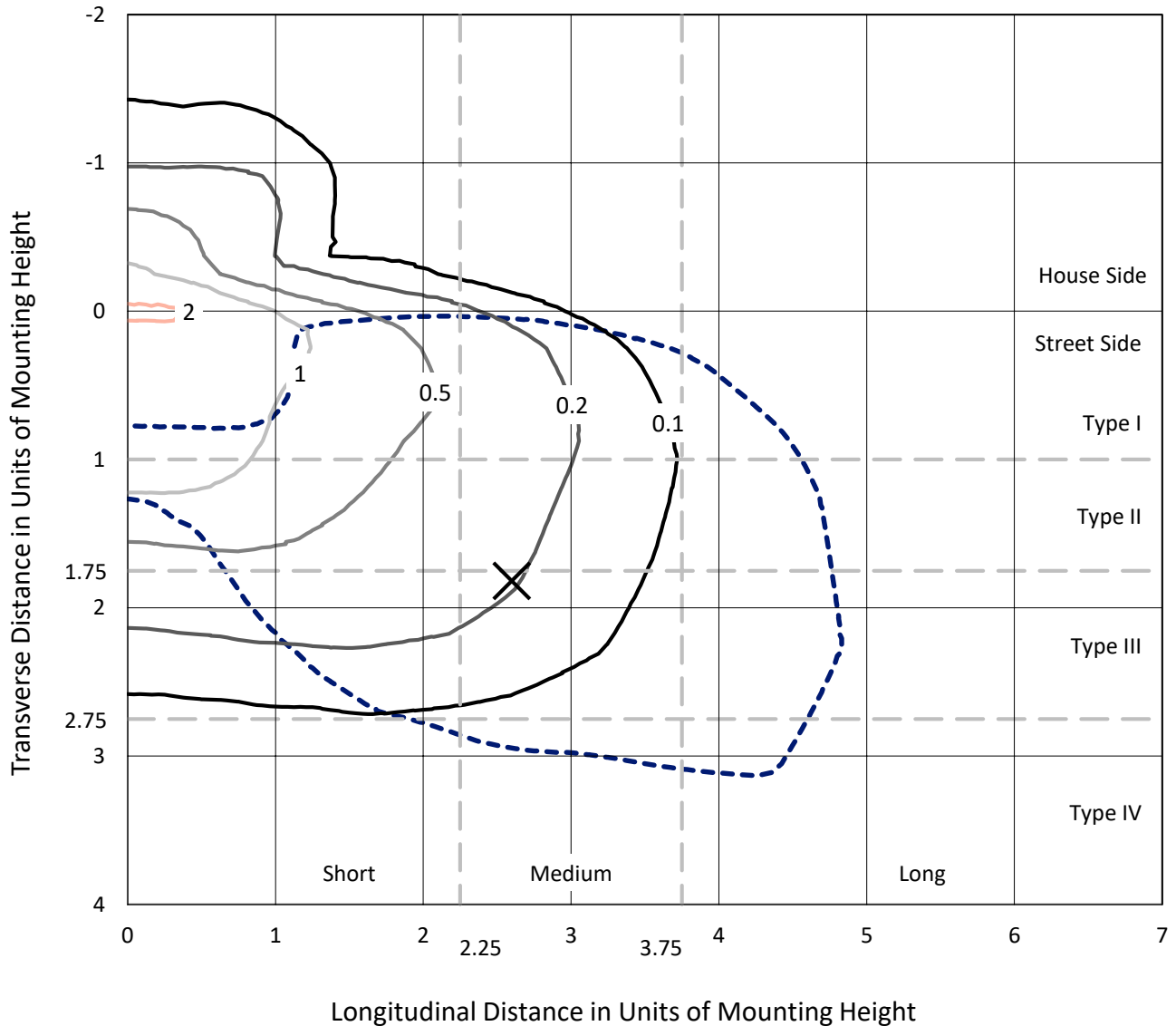
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317735
 CATALOG NUMBER: GAN-SA1D-730-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

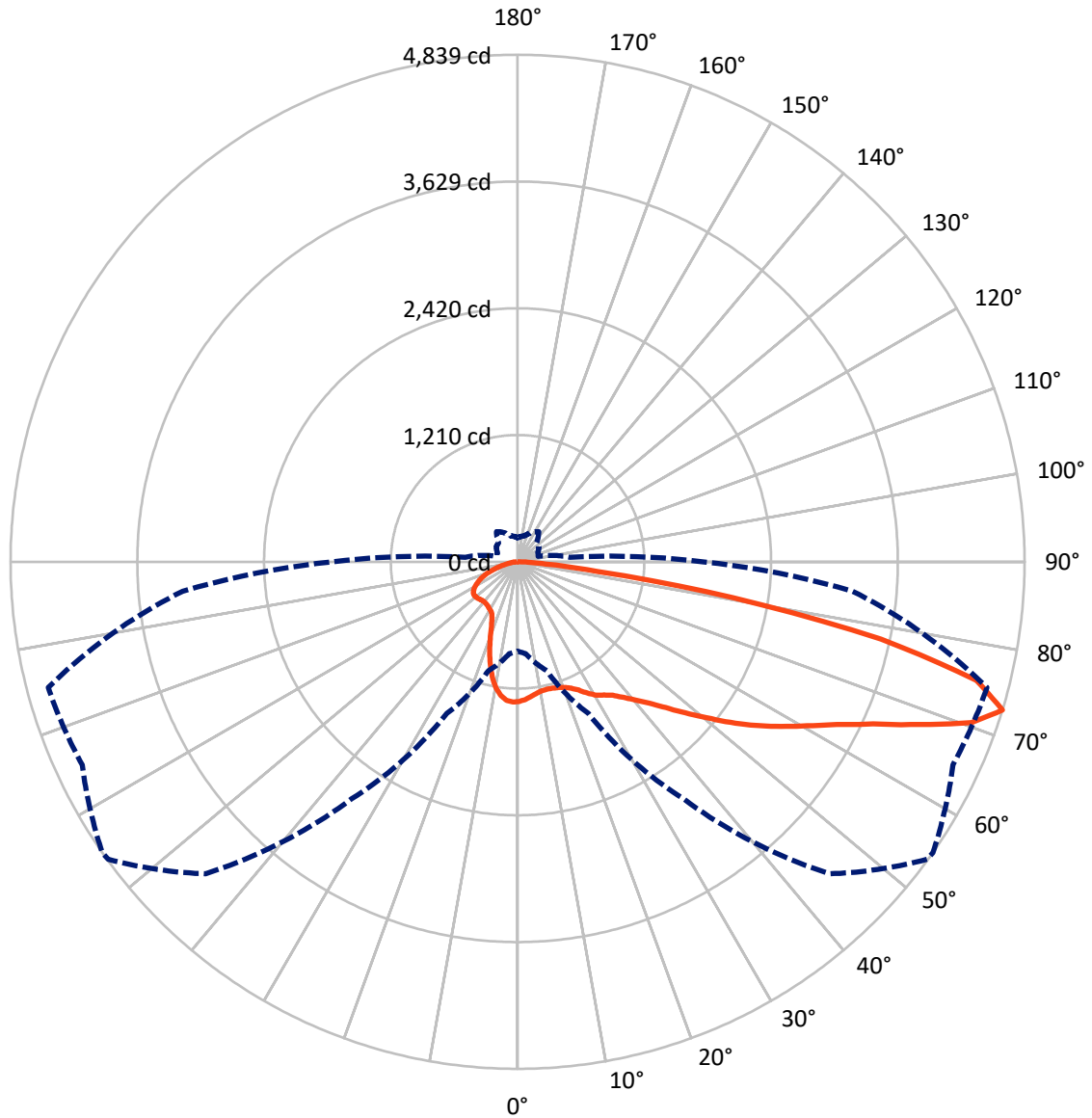
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Medium - N/A

REPORT NUMBER: P317735
CATALOG NUMBER: GAN-SA1D-730-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P317735
 CATALOG NUMBER: GAN-SA1D-730-U-T3R

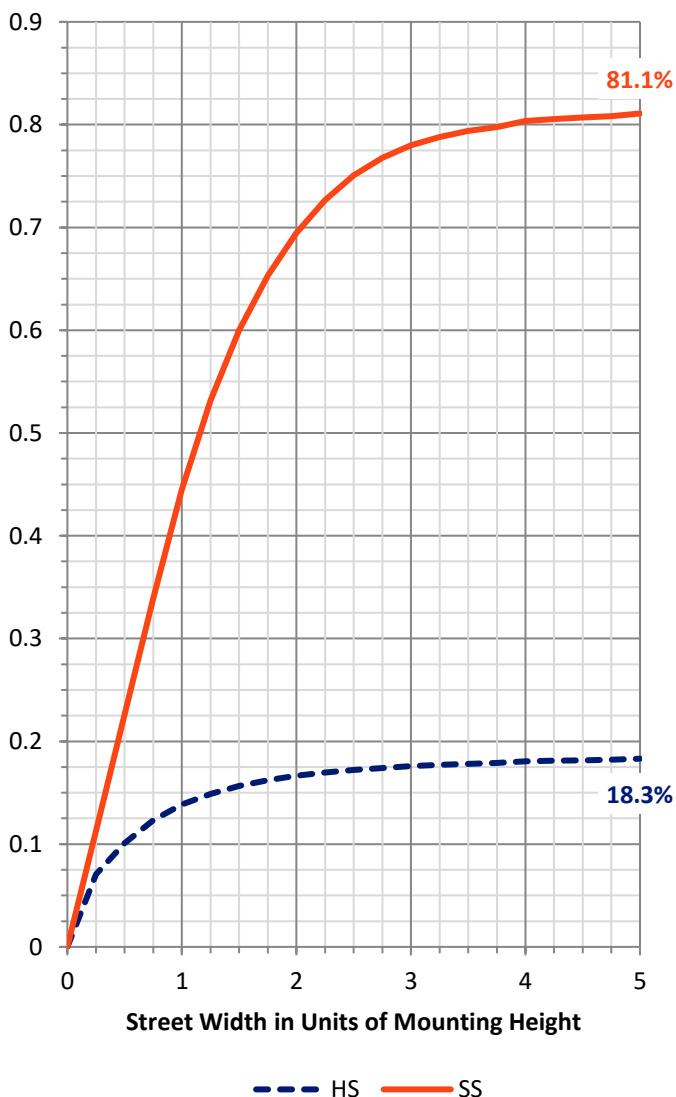
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1406.1	0.0	1406.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	6158.9	0.0	6158.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	7565.0	0.0	7565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.7	1.6
10°-20°	321.5	4.2
20°-30°	530.0	7.0
30°-40°	784.0	10.4
40°-50°	1094.3	14.5
50°-60°	1424.8	18.8
60°-70°	1751.0	23.1
70°-80°	1372.6	18.1
80°-90°	166.1	2.2
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°	7565.0	100.0
0°-180°	7565.0	100.0

Coefficient of Utilization

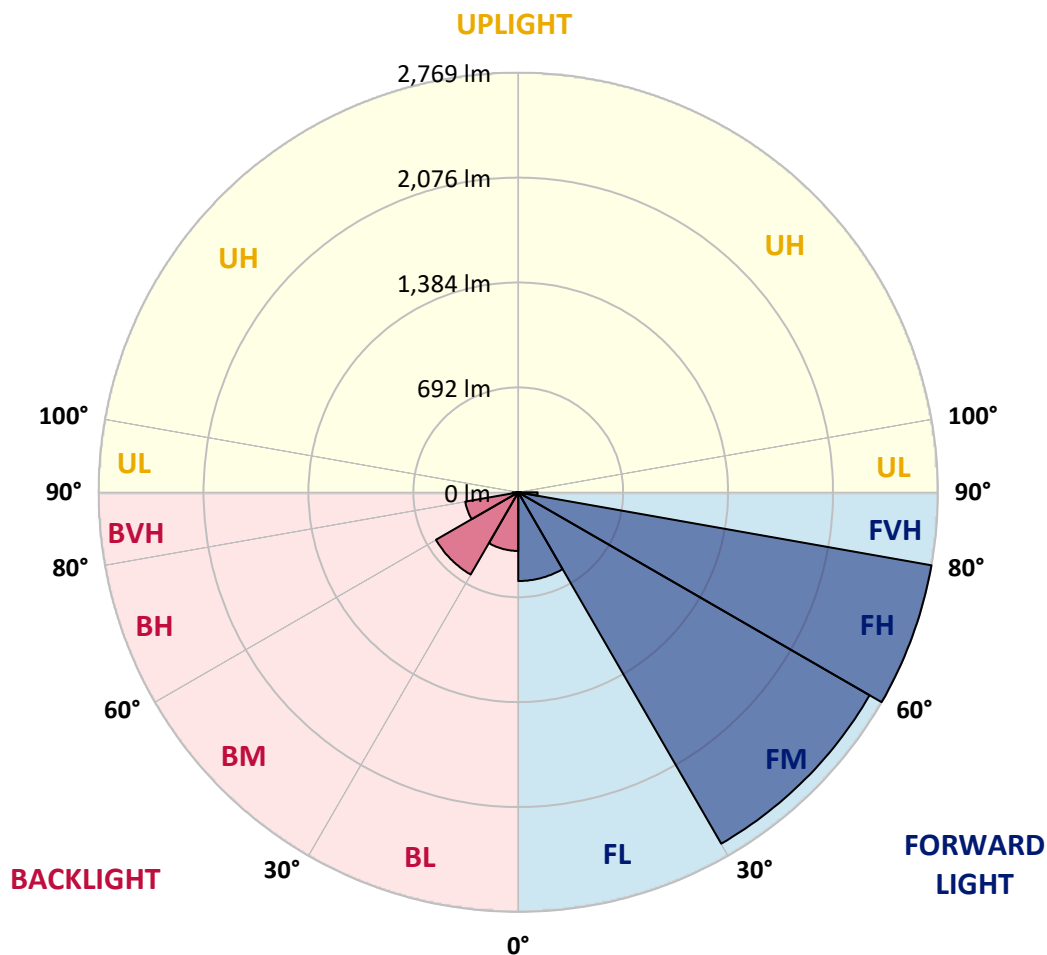


REPORT NUMBER: P317735
 CATALOG NUMBER: GAN-SA1D-730-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	585.3	7.7			
FM (30°-60°)	2676.6	35.4			
FH (60°-80°)	2768.5	36.6			G2/5000
FVH (80°-90°)	128.4	1.7			G2/225
BL (0°-30°)	386.9	5.1	B1/500		
BM (30°-60°)	626.4	8.3	B1/1000		
BH (60°-80°)	355.1	4.7	B1/500		G1/500
BVH (80°-90°)	37.7	0.5			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 IV Medium





REPORT NUMBER: P317735
 CATALOG NUMBER: GAN-SA1D-730-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3
2.5°	1290.9	1287.8	1291.6	1297.0	1302.9	1310.8	1315.4	1317.4	1325.4	1328.4	1335.1
5°	1231.1	1229.5	1235.9	1245.1	1258.2	1276.6	1291.4	1294.2	1315.1	1330.0	1343.5
7.5°	1187.6	1187.6	1195.0	1206.0	1220.6	1245.4	1266.3	1270.2	1305.7	1337.6	1362.7
10°	1153.1	1154.4	1163.1	1176.1	1193.3	1219.6	1247.4	1251.8	1303.1	1355.5	1395.4
12.5°	1130.1	1133.2	1141.1	1152.9	1174.1	1206.0	1241.3	1247.2	1308.5	1381.1	1434.7
15°	1144.7	1149.8	1150.6	1155.4	1167.2	1201.9	1244.9	1251.0	1320.0	1407.1	1479.4
17.5°	1208.6	1210.4	1202.5	1192.2	1186.6	1208.8	1255.6	1262.0	1333.8	1432.9	1522.4
20°	1305.7	1304.7	1287.5	1259.9	1231.3	1234.9	1273.2	1279.9	1352.4	1455.7	1565.3
22.5°	1428.3	1424.8	1398.4	1347.6	1298.8	1278.3	1304.2	1309.8	1380.6	1488.1	1611.3
25°	1577.0	1569.1	1534.4	1466.1	1394.3	1341.7	1350.7	1356.0	1421.4	1524.4	1653.4
27.5°	1733.9	1726.0	1681.8	1599.3	1503.7	1421.7	1414.8	1419.4	1467.9	1551.2	1684.6
30°	1898.0	1889.5	1849.2	1756.7	1619.7	1504.5	1474.6	1476.4	1500.6	1565.8	1710.2
32.5°	2062.8	2054.9	2009.6	1902.3	1745.7	1593.4	1517.8	1515.5	1520.3	1580.9	1739.0
35°	2229.9	2233.0	2180.1	2061.2	1885.2	1692.3	1568.9	1564.0	1553.3	1611.8	1779.9
37.5°	2408.7	2406.7	2338.2	2214.0	2031.1	1799.6	1642.2	1641.4	1604.4	1670.3	1844.1
40°	2528.3	2529.6	2488.0	2370.4	2178.5	1918.4	1736.2	1734.4	1685.9	1757.9	1928.1
42.5°	2575.1	2583.5	2594.3	2519.6	2332.9	2056.1	1848.4	1845.8	1799.6	1883.7	2027.0
45°	2578.4	2595.3	2661.7	2652.3	2489.2	2213.8	1991.7	1984.6	1951.4	2050.8	2145.1
47.5°	2549.8	2567.2	2677.5	2731.2	2629.0	2380.1	2159.4	2153.7	2125.1	2259.8	2272.8
50°	2487.2	2503.8	2644.8	2769.8	2744.0	2540.1	2352.5	2337.7	2322.4	2501.2	2419.0
52.5°	2369.9	2401.8	2601.2	2779.0	2812.7	2682.1	2555.7	2546.0	2554.4	2756.0	2565.4
55°	2092.2	2127.9	2488.5	2771.3	2863.6	2801.5	2758.8	2758.3	2802.0	3023.3	2722.5
57.5°	1936.6	1961.8	2259.0	2758.3	2923.9	2920.0	2959.9	2964.7	3049.8	3314.3	2887.1
60°	1848.7	1875.2	2142.8	2710.0	3017.4	3073.3	3165.1	3174.8	3301.8	3636.5	3085.1
62.5°	1768.7	1797.8	2070.7	2611.6	3127.5	3292.6	3410.9	3419.6	3568.5	3967.6	3276.5
65°	1632.0	1664.9	1965.2	2547.0	3227.7	3578.5	3723.4	3729.3	3874.9	4314.6	3422.9
67.5°	1438.8	1469.0	1766.1	2404.1	3301.8	3925.7	4138.8	4142.2	4178.7	4559.7	3497.8
70°	1213.2	1224.7	1482.5	2109.3	3214.1	4250.5	4594.2	4594.9	4455.7	4716.6	3485.5
72.5°	852.4	879.5	1076.2	1596.7	2762.1	4210.9	4830.5	4839.2	4584.5	4637.4	3207.0
75°	522.8	551.4	675.1	967.6	1752.3	3311.7	4463.1	4523.4	4343.0	4134.8	2619.8
77.5°	349.5	360.3	440.5	564.2	793.9	1905.4	3431.3	3544.8	3607.9	3015.3	1675.4
80°	195.0	215.4	292.1	350.6	353.1	757.1	2057.4	2084.0	2007.3	1200.7	516.9
82.5°	103.2	114.5	195.0	205.9	192.7	253.5	766.8	767.6	641.3	321.9	153.6
85°	80.0	89.4	133.6	125.7	98.4	112.4	253.0	266.8	218.2	131.8	50.1
87.5°	39.9	49.6	90.7	79.7	38.6	32.2	90.5	96.6	86.1	51.6	18.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P317735
 CATALOG NUMBER: GAN-SA1D-730-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3
2.5°	1337.6	1339.9	1342.7	1339.7	1338.6	1334.6	1327.7	1326.1	1322.5	1322.8	1324.8
5°	1349.4	1353.2	1351.7	1339.9	1325.9	1306.2	1285.8	1268.4	1256.9	1256.1	1255.3
7.5°	1371.9	1374.4	1362.4	1328.9	1289.6	1244.1	1201.2	1163.6	1140.9	1135.3	1134.0
10°	1407.1	1406.6	1373.7	1306.2	1227.8	1146.5	1077.5	1025.4	995.0	986.0	983.7
12.5°	1446.5	1440.6	1377.5	1264.8	1140.4	1027.7	940.3	882.3	850.6	840.4	837.8
15°	1487.1	1472.5	1368.0	1203.0	1033.1	899.7	807.9	754.3	737.2	731.5	730.5
17.5°	1524.9	1496.8	1340.9	1119.2	910.7	772.2	700.6	679.2	683.2	690.7	690.9
20°	1562.0	1513.2	1297.5	1013.4	781.6	667.2	642.9	658.7	678.1	693.2	695.3
22.5°	1598.5	1524.7	1241.6	891.2	666.1	608.1	625.2	654.1	676.4	692.7	695.5
25°	1629.2	1527.5	1164.4	760.9	585.9	585.9	616.8	644.2	666.1	682.2	685.0
27.5°	1640.4	1508.6	1055.5	640.3	545.5	575.7	605.1	627.8	646.5	663.6	666.6
30°	1644.8	1473.6	929.8	543.5	528.9	564.7	589.2	608.6	626.3	642.4	645.2
32.5°	1645.5	1431.4	796.4	488.5	517.4	553.2	569.5	586.7	605.6	612.0	613.0
35°	1650.4	1381.6	655.9	460.4	506.7	542.5	555.5	567.8	537.1	539.4	541.4
37.5°	1664.4	1332.3	538.4	444.6	499.8	536.8	552.4	508.0	483.9	478.3	477.6
40°	1690.7	1279.6	451.2	431.8	497.2	539.6	532.8	474.2	432.8	401.9	397.3
42.5°	1727.3	1222.9	395.5	423.4	499.0	553.2	505.4	441.8	373.1	353.1	350.6
45°	1768.4	1163.4	365.4	417.5	505.2	563.7	499.8	398.6	345.2	330.1	328.8
47.5°	1808.3	1090.5	349.8	415.0	513.6	555.2	476.0	385.3	331.9	324.0	324.8
50°	1854.0	1024.9	340.3	412.1	521.0	549.9	449.2	378.4	326.8	336.5	346.7
52.5°	1892.6	956.9	331.9	406.5	523.8	540.4	442.3	379.7	326.8	345.5	355.2
55°	1938.3	905.5	322.2	394.8	518.4	513.6	437.4	387.4	330.6	318.9	319.9
57.5°	1997.4	888.7	311.5	376.4	500.6	474.5	435.1	394.8	328.3	320.9	323.5
60°	2079.1	906.6	307.1	352.4	472.7	443.8	435.4	390.9	312.2	299.5	299.7
62.5°	2157.1	926.5	306.9	337.3	438.5	416.5	429.5	378.4	304.1	296.7	299.5
65°	2182.6	906.3	294.6	320.4	399.9	383.8	418.8	365.1	297.9	286.7	286.2
67.5°	2148.4	843.7	269.8	293.1	355.7	345.7	404.7	349.3	288.2	279.0	277.5
70°	2046.7	703.9	239.2	257.0	305.3	302.8	382.5	330.9	275.2	267.3	260.6
72.5°	1773.0	501.6	201.6	213.9	248.6	256.8	351.8	306.9	256.8	239.7	229.5
75°	1456.2	371.3	165.6	168.1	188.8	211.1	309.7	278.8	235.1	205.9	198.0
77.5°	891.7	227.2	131.8	132.9	135.4	168.4	255.0	247.3	207.5	171.7	166.1
80°	288.7	123.9	95.3	100.2	92.5	123.4	197.3	210.5	178.1	143.6	137.5
82.5°	109.9	72.3	64.4	67.7	64.1	82.8	143.9	168.6	145.9	118.0	96.1
85°	53.1	40.9	38.1	42.7	39.6	42.4	92.0	124.2	110.6	76.9	71.5
87.5°	18.9	18.1	14.6	19.7	16.9	15.1	28.1	62.6	73.1	52.9	47.3
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)