

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: P321546

Luminaire Tested: **GAN-SA2A-730-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6679 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

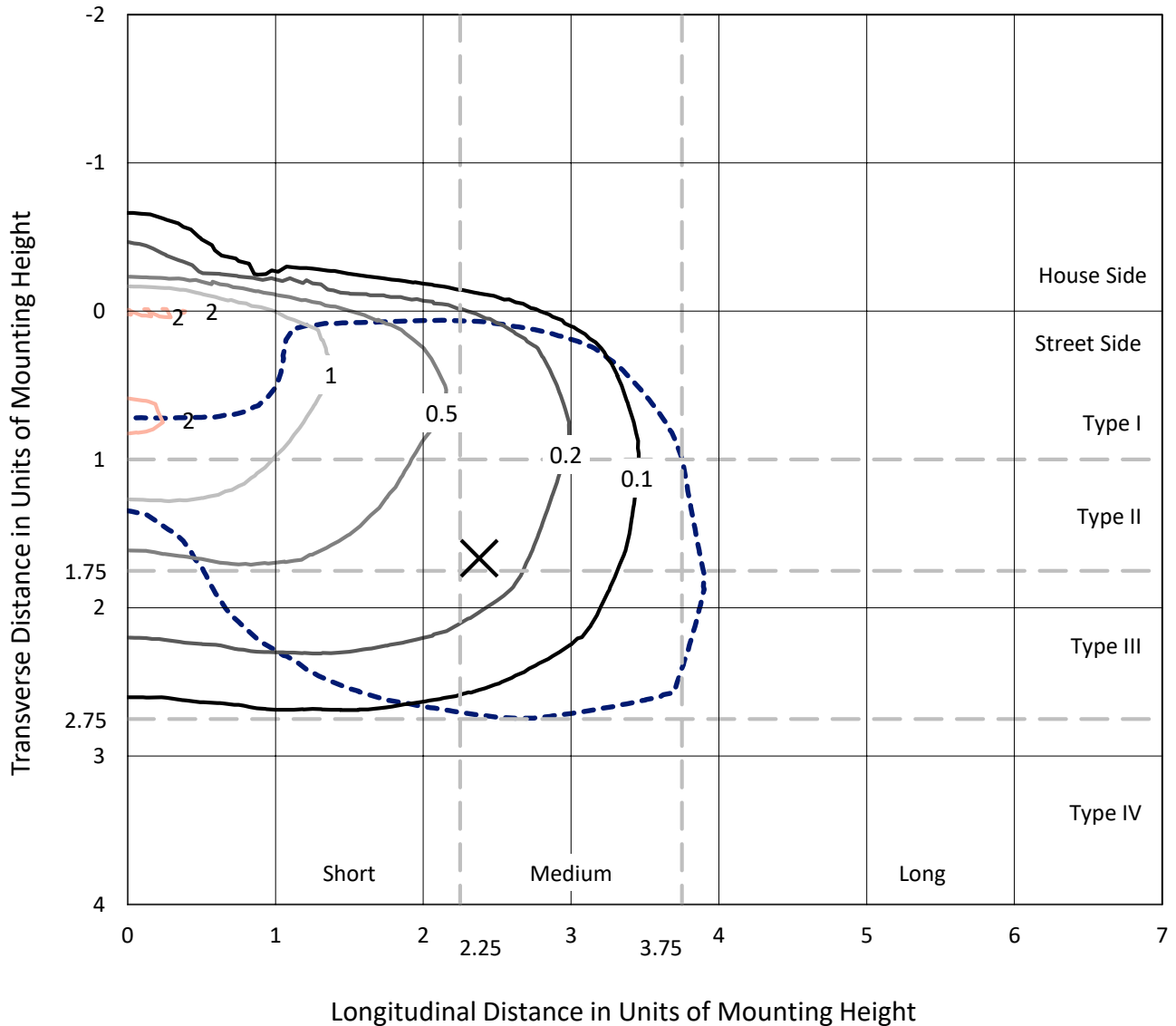
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

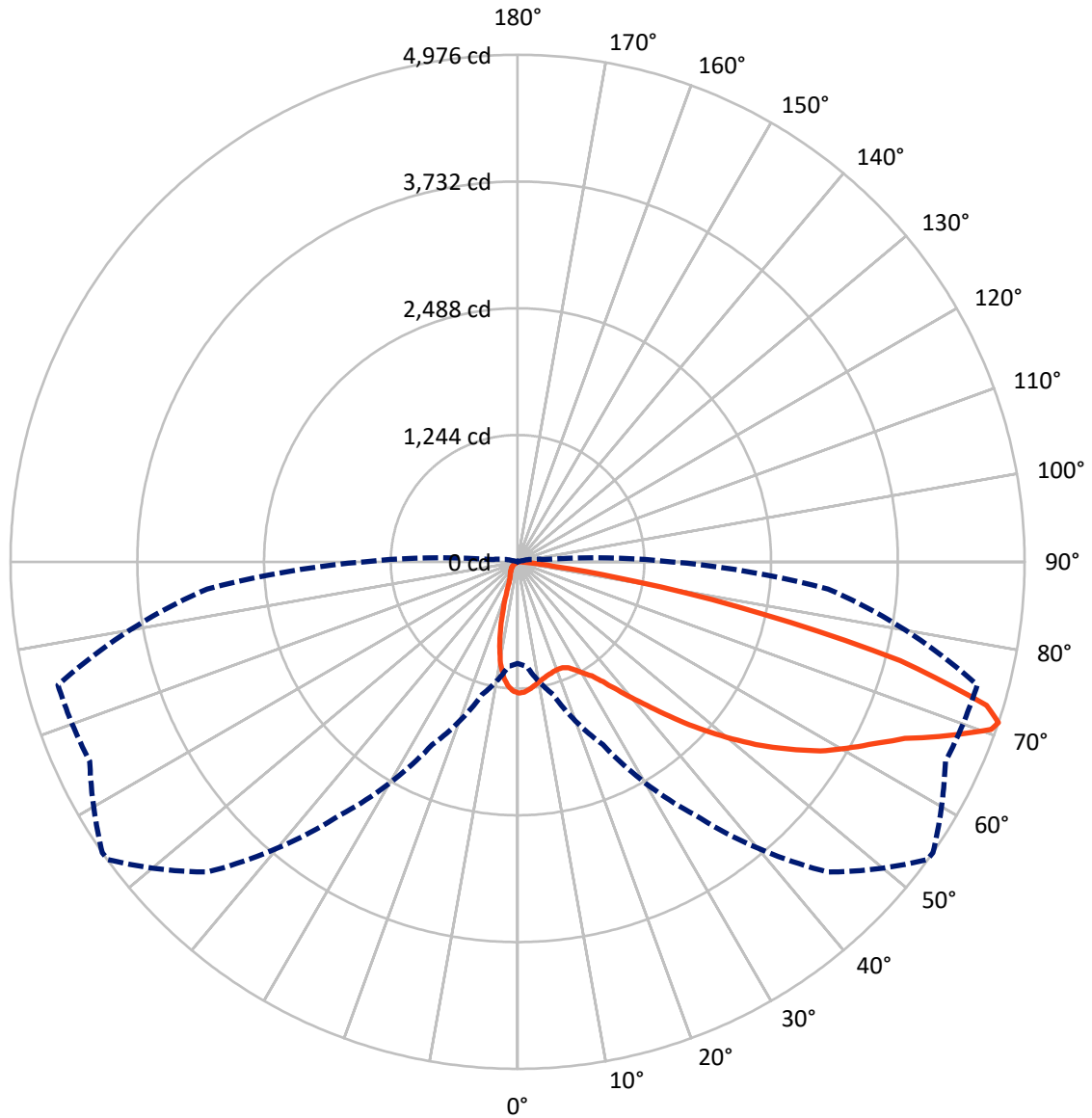
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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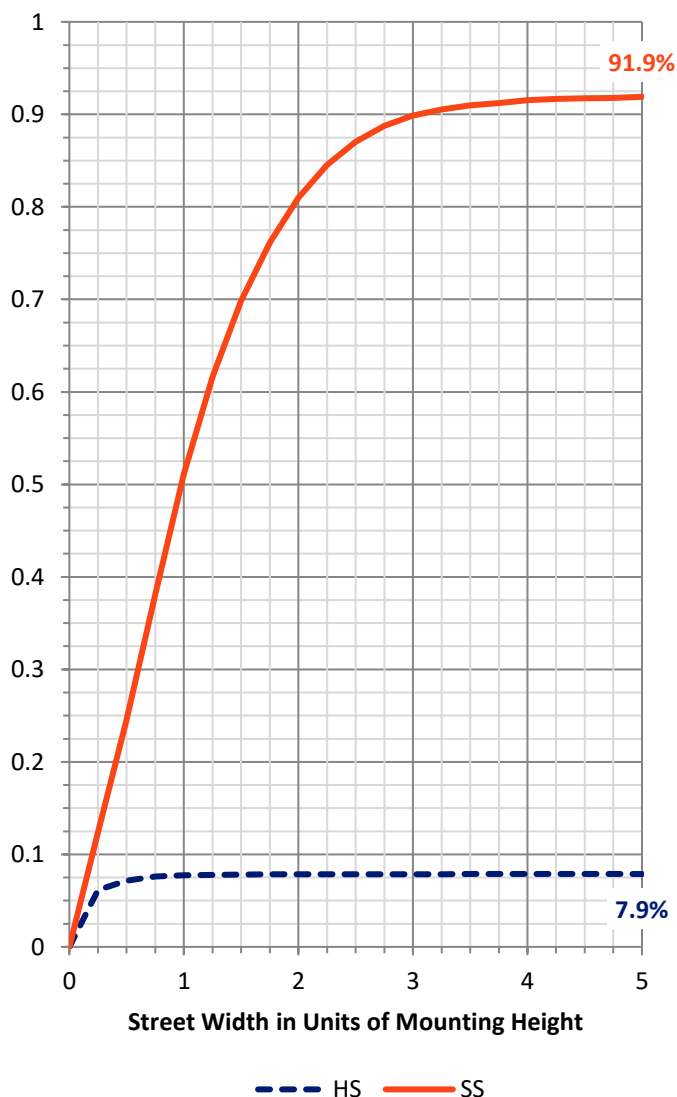
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	528.8	0.0	528.8
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	6150.2	0.0	6150.2
	% Fixture	92.1	0.0	92.1
Total	Lumens	6679.0	0.0	6679.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	1.6
10°-20°	247.9	3.7
20°-30°	398.4	6.0
30°-40°	677.0	10.1
40°-50°	1050.8	15.7
50°-60°	1412.7	21.2
60°-70°	1728.2	25.9
70°-80°	1010.4	15.1
80°-90°	43.7	0.7
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°	6679.0	100.0
0°-180°	6679.0	100.0

Coefficient of Utilization

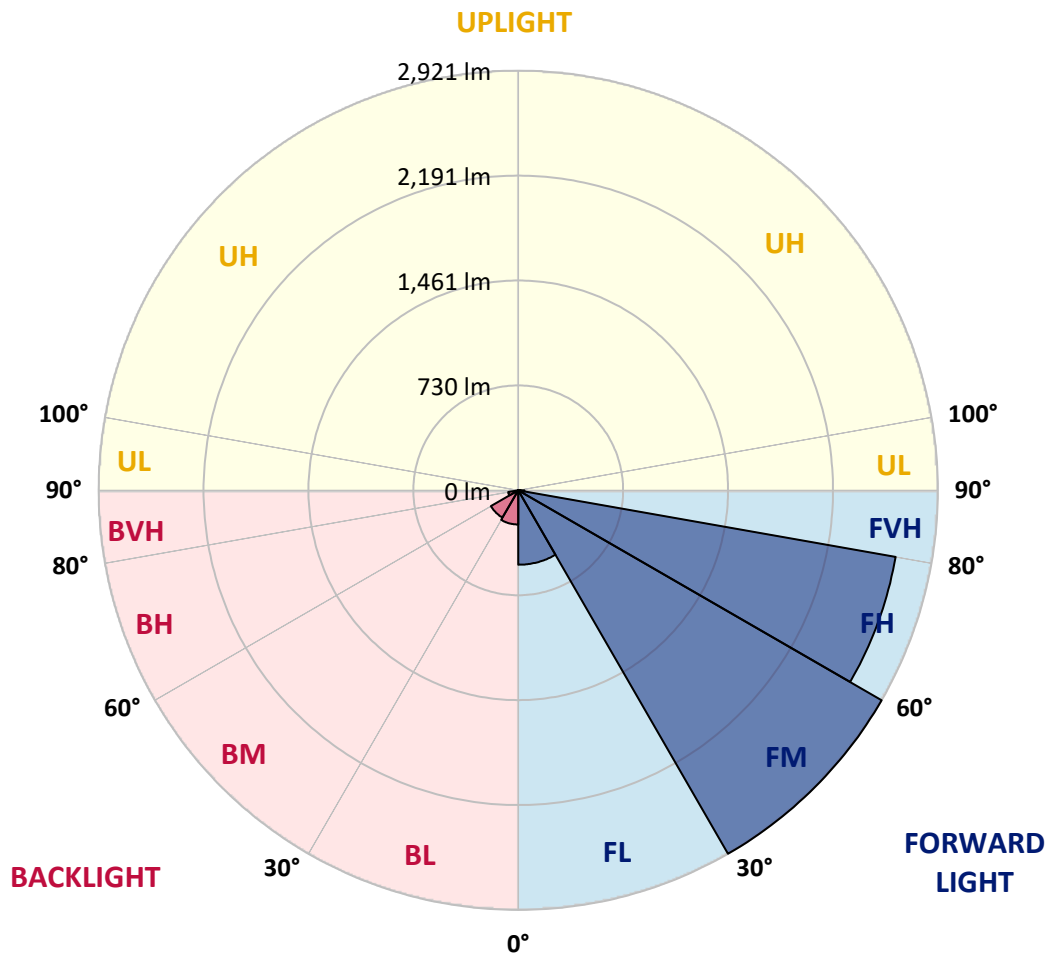


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	518.2	7.8			
FM (30°-60°)	2921.2	43.7			
FH (60°-80°)	2667.8	39.9			G2/5000
FVH (80°-90°)	43.0	0.6			G1/100
BL (0°-30°)	238.0	3.6	B1/500		
BM (30°-60°)	219.3	3.3	B0/220		
BH (60°-80°)	70.8	1.1	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
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°	54°	55°	65°	75°	85°
0°	1288.1	1288.1	1288.1	1288.1	1288.1	1288.1	1288.1	1288.1	1288.1	1288.1	1288.1
2.5°	1250.3	1251.8	1257.2	1259.6	1265.3	1274.9	1279.7	1280.0	1287.8	1290.8	1293.2
5°	1161.8	1170.8	1179.8	1189.4	1206.8	1229.9	1252.7	1254.8	1280.0	1298.6	1308.5
7.5°	1085.6	1093.7	1104.5	1119.8	1144.4	1180.7	1218.8	1223.3	1271.0	1313.3	1335.5
10°	1007.4	1014.0	1029.6	1052.0	1085.9	1134.5	1185.8	1193.3	1262.9	1333.1	1372.0
12.5°	923.7	927.6	946.5	978.9	1028.7	1090.4	1157.9	1167.8	1257.8	1355.8	1415.2
15°	860.1	861.9	879.9	913.5	970.5	1050.8	1136.3	1148.3	1259.0	1383.1	1462.3
17.5°	843.9	844.8	854.4	877.5	927.9	1015.5	1119.2	1133.9	1262.6	1409.8	1509.7
20°	909.6	903.3	893.4	889.8	911.4	994.2	1109.0	1125.5	1267.4	1433.5	1552.3
22.5°	1089.8	1071.2	1030.2	975.3	942.0	995.7	1111.7	1128.2	1282.7	1462.6	1601.5
25°	1357.3	1331.6	1261.7	1153.7	1049.9	1038.9	1134.2	1151.0	1312.4	1497.4	1648.5
27.5°	1661.7	1636.3	1550.8	1396.6	1219.7	1124.3	1185.8	1201.4	1356.4	1528.3	1684.5
30°	1953.2	1946.0	1845.3	1670.1	1433.2	1262.9	1252.4	1265.6	1389.1	1546.9	1713.0
32.5°	2200.4	2189.0	2108.0	1937.7	1677.6	1429.3	1330.7	1334.6	1413.7	1570.9	1750.2
35°	2429.5	2415.4	2344.3	2183.3	1928.4	1632.7	1451.2	1445.5	1467.4	1619.2	1804.2
37.5°	2629.5	2642.4	2563.5	2410.3	2153.3	1844.1	1613.8	1596.7	1551.4	1697.7	1882.5
40°	2796.9	2796.9	2755.8	2628.0	2396.2	2062.7	1797.6	1775.1	1677.6	1818.9	1981.7
42.5°	2857.1	2870.0	2885.3	2813.1	2613.6	2290.0	2002.4	1979.0	1855.5	1990.7	2107.1
45°	2860.7	2881.1	2959.4	2959.1	2810.1	2515.9	2233.4	2222.3	2083.4	2211.5	2262.4
47.5°	2810.1	2835.6	2964.5	3037.7	2965.7	2726.1	2485.9	2472.1	2351.2	2482.0	2425.0
50°	2731.8	2760.0	2909.9	3068.6	3071.6	2909.0	2751.9	2731.2	2646.0	2791.2	2592.9
52.5°	2591.7	2646.3	2861.0	3075.8	3141.1	3067.1	3005.0	2996.0	2975.9	3089.0	2726.7
55°	2292.1	2352.7	2738.4	3078.2	3205.6	3207.1	3242.2	3244.6	3285.1	3367.3	2826.3
57.5°	2150.6	2184.8	2524.3	3089.6	3301.3	3366.1	3483.9	3502.5	3565.2	3631.5	2939.9
60°	2061.5	2102.0	2418.7	3074.0	3451.5	3574.5	3708.0	3714.3	3781.4	3904.1	3093.8
62.5°	1990.4	2030.3	2352.1	3014.0	3620.4	3825.2	3926.9	3927.5	3977.9	4228.9	3268.6
65°	1815.0	1848.6	2217.5	2946.5	3732.0	4073.2	4181.2	4177.3	4218.4	4571.4	3471.6
67.5°	1561.3	1587.1	1942.5	2690.7	3690.0	4298.8	4565.1	4552.2	4502.4	4867.4	3551.4
70°	1207.1	1216.4	1531.0	2242.3	3296.5	4385.4	4936.0	4929.5	4676.6	4814.3	3259.0
71°	997.8	1028.4	1349.2	1979.0	3032.9	4305.4	4972.0	4975.9	4632.9	4669.7	3057.8
72.5°	579.4	605.5	978.0	1519.9	2574.9	3971.3	4785.5	4813.7	4428.3	4247.5	2611.8
75°	124.2	132.9	362.6	735.7	1416.4	2783.4	3777.2	3877.7	3609.3	2889.5	1574.2
77.5°	86.4	93.3	155.3	333.8	468.1	1375.3	2346.4	2459.8	2156.3	1085.9	503.8
80°	68.4	76.2	121.2	164.9	126.6	443.6	1099.1	1168.4	719.2	242.3	84.9
82.5°	38.1	45.3	94.5	89.1	48.6	84.3	307.7	347.9	144.0	48.9	20.1
85°	11.1	13.5	60.9	64.8	20.7	16.2	52.5	65.1	27.3	12.9	9.0
87.5°	0.0	0.0	29.4	24.9	6.0	2.4	4.8	5.4	5.4	5.4	6.0
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°	1288.1	1288.1	1288.1	1288.1	1288.1	1288.1	1288.1	1288.1	1288.1	1288.1	1288.1
2.5°	1293.2	1295.3	1287.8	1277.9	1267.4	1254.5	1241.0	1230.5	1230.2	1225.1	1220.0
5°	1309.1	1307.9	1287.2	1255.7	1218.5	1179.8	1142.9	1101.2	1087.4	1070.3	1064.6
7.5°	1338.5	1330.1	1286.3	1217.3	1135.7	1054.7	971.1	886.8	850.8	818.4	812.7
10°	1375.3	1359.4	1280.6	1159.7	1010.1	860.7	734.5	619.9	569.5	530.8	529.0
12.5°	1413.7	1389.4	1264.7	1072.7	845.4	635.5	490.0	377.3	335.3	308.3	310.7
15°	1453.9	1417.6	1230.5	955.5	658.0	431.3	301.1	234.8	218.0	211.1	212.9
17.5°	1495.0	1437.1	1182.8	814.2	472.9	278.3	208.4	189.8	189.8	191.3	191.9
20°	1530.7	1447.6	1112.6	655.9	320.6	202.7	182.3	179.6	181.1	183.5	183.8
22.5°	1566.1	1448.2	1021.2	495.4	224.3	177.5	173.6	172.4	173.3	176.0	176.3
25°	1594.9	1441.0	906.6	352.4	179.0	167.3	165.5	164.9	165.5	168.8	168.8
27.5°	1606.6	1414.9	766.8	247.7	160.4	155.9	155.3	155.9	156.8	159.2	159.5
30°	1607.8	1369.3	614.5	179.3	145.5	140.7	141.9	144.0	143.1	142.5	143.1
32.5°	1610.8	1316.6	466.0	147.6	132.9	125.4	123.9	123.9	120.3	118.2	117.0
35°	1620.7	1254.5	338.0	132.6	120.0	111.3	105.6	99.0	92.1	88.5	87.6
37.5°	1636.3	1189.4	242.0	122.7	108.6	98.7	87.9	76.2	66.3	63.6	63.6
40°	1664.7	1122.2	179.0	114.9	99.6	87.3	71.1	55.8	46.8	45.3	45.3
42.5°	1709.7	1051.4	142.8	108.0	91.8	75.6	54.3	40.5	33.9	33.0	32.7
45°	1756.5	973.5	124.8	101.4	83.4	62.1	40.2	30.0	26.1	25.2	25.2
47.5°	1803.3	890.4	116.1	95.1	75.3	48.3	30.0	23.7	21.9	21.9	22.2
50°	1842.9	803.7	109.8	88.2	64.8	36.6	23.7	20.1	19.5	20.7	21.0
52.5°	1852.8	718.6	102.0	79.5	51.9	27.9	19.5	17.7	17.7	17.7	17.7
55°	1846.8	652.6	91.8	68.7	38.4	22.2	16.8	15.6	15.3	15.3	15.3
57.5°	1867.2	613.6	73.5	53.4	27.6	18.0	14.7	13.8	13.2	12.9	12.9
60°	1908.3	588.1	52.5	38.4	20.7	15.0	12.6	11.7	10.8	10.2	10.2
62.5°	1962.8	565.9	39.0	28.5	15.9	12.0	10.5	9.6	8.4	7.8	7.8
65°	2004.8	526.3	29.7	21.3	12.0	9.6	8.1	7.8	6.0	5.4	5.1
67.5°	1940.7	439.4	24.0	15.6	9.0	7.5	6.3	6.0	3.6	3.0	3.0
70°	1664.4	305.9	19.2	11.4	6.6	6.0	5.1	3.9	2.7	2.4	2.4
71°	1509.4	255.5	17.4	9.6	5.7	5.7	4.8	3.3	2.4	2.1	2.1
72.5°	1253.9	181.4	14.7	7.5	5.1	6.0	5.1	3.0	2.4	2.1	1.8
75°	727.9	75.9	10.2	5.1	3.9	7.2	6.6	2.7	1.8	1.5	1.5
77.5°	218.9	27.9	5.7	3.3	3.0	6.3	7.5	2.4	0.9	0.3	0.3
80°	39.9	12.0	3.6	2.1	2.1	3.9	5.7	1.2	0.0	0.0	0.0
82.5°	14.1	6.0	2.1	1.2	0.9	1.8	2.7	0.0	0.0	0.0	0.0
85°	8.1	4.2	1.2	0.6	0.0	0.3	0.6	0.0	0.0	0.0	0.0
87.5°	5.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)