

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: P322236

Luminaire Tested: **GAN-SA2B-740-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322236  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2B-740-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8522 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

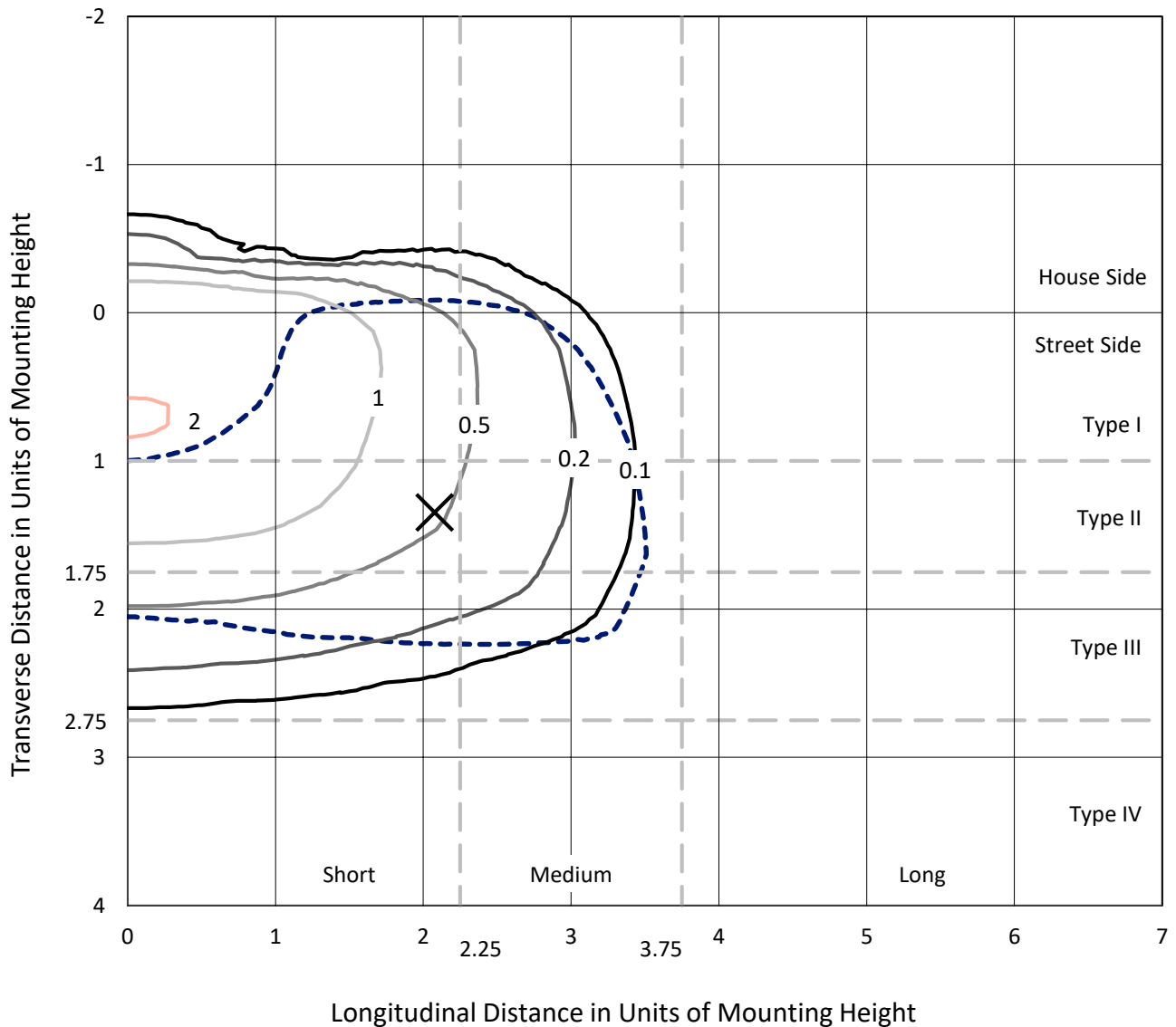
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

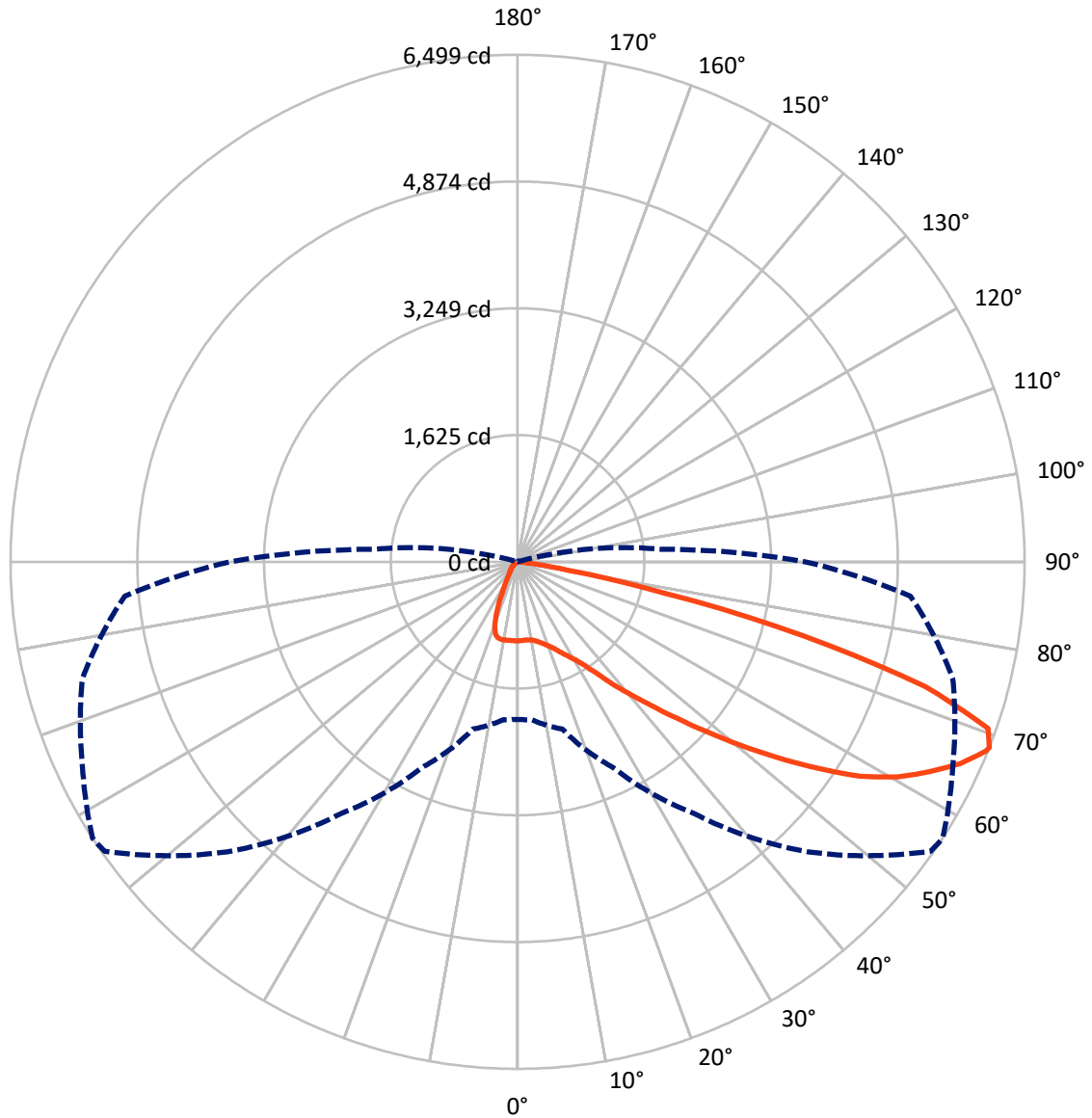
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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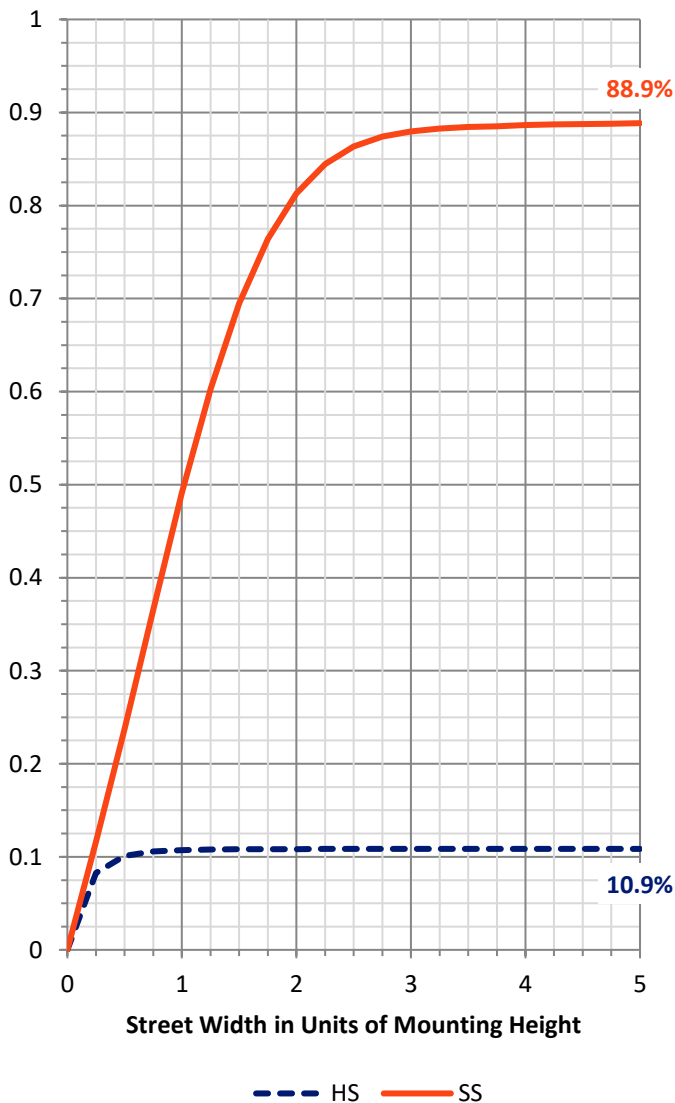
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	934.5	0.0	934.5
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	7587.5	0.0	7587.5
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	8522.0	0.0	8522.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.8	1.1
10°-20°	262.6	3.1
20°-30°	453.0	5.3
30°-40°	781.9	9.2
40°-50°	1337.5	15.7
50°-60°	2139.8	25.1
60°-70°	2472.3	29.0
70°-80°	944.7	11.1
80°-90°	35.4	0.4
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°	8522.0	100.0
0°-180°	8522.0	100.0

**Coefficient of Utilization**



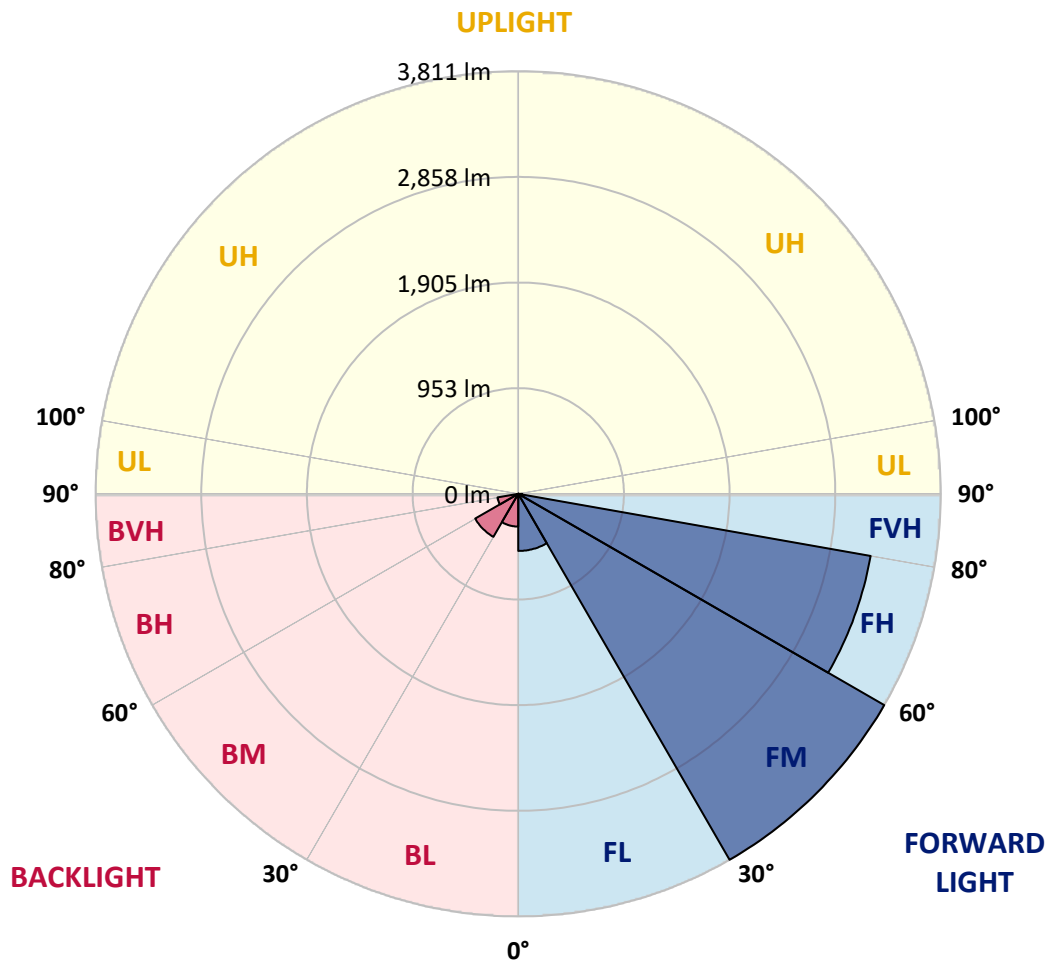
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	515.1	6.0			
FM (30°-60°)	3811.0	44.7			
FH (60°-80°)	3226.7	37.9			G2/5000
FVH (80°-90°)	34.8	0.4			G1/100
BL (0°-30°)	295.3	3.5	B1/500		
BM (30°-60°)	448.2	5.3	B1/1000		
BH (60°-80°)	190.3	2.2	B1/500		G1/500
BVH (80°-90°)	0.6	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1012.6	1012.6	1012.6	1012.6	1012.6	1012.6	1012.6	1012.6	1012.6	1012.6	1012.6
2.5°	988.9	993.3	996.5	998.5	1001.0	1006.2	1007.8	1010.2	1011.4	1011.4	1014.3
5°	949.8	954.6	961.5	967.1	978.4	992.9	1003.4	1007.4	1014.7	1021.1	1024.7
7.5°	913.5	919.2	927.2	940.5	959.9	983.2	1005.0	1010.6	1024.7	1038.4	1045.3
10°	890.1	894.6	905.0	924.0	949.4	982.0	1012.6	1019.5	1043.7	1066.6	1079.5
12.5°	882.1	886.1	897.0	918.3	949.8	988.1	1030.4	1040.4	1075.9	1109.3	1127.5
15°	893.8	894.6	906.3	926.4	957.4	1003.0	1059.8	1071.9	1116.6	1160.1	1182.7
17.5°	938.9	935.3	941.3	950.2	974.8	1022.7	1090.8	1108.9	1168.6	1219.8	1241.1
20°	1051.7	1051.7	1038.0	1013.8	1014.3	1053.3	1132.7	1153.3	1226.2	1285.4	1304.8
22.5°	1244.7	1241.1	1213.7	1154.5	1100.1	1106.1	1183.9	1210.5	1295.5	1358.8	1365.2
25°	1476.8	1472.4	1430.1	1346.7	1252.4	1191.6	1253.2	1283.8	1378.1	1434.1	1420.8
27.5°	1722.7	1719.0	1677.1	1573.6	1439.4	1327.8	1335.8	1364.8	1462.3	1517.5	1475.2
30°	1960.8	1962.0	1920.5	1814.1	1662.2	1501.4	1440.6	1457.5	1544.1	1600.2	1539.7
32.5°	2187.3	2188.9	2153.0	2034.1	1892.3	1703.3	1585.6	1581.2	1639.2	1694.4	1625.1
35°	2389.1	2393.2	2368.6	2276.3	2126.0	1928.2	1773.8	1763.4	1774.2	1836.7	1756.1
37.5°	2583.8	2586.2	2567.7	2489.9	2364.2	2175.2	2011.6	1996.7	1973.3	2021.2	1929.0
40°	2796.9	2790.9	2769.5	2699.0	2591.0	2448.0	2267.1	2241.3	2200.6	2243.3	2156.2
42.5°	2995.2	2988.4	2992.0	2912.2	2821.1	2728.4	2564.8	2520.5	2496.7	2545.9	2435.1
45°	3243.0	3239.4	3251.5	3182.2	3108.4	3041.1	2906.1	2857.8	2847.3	2904.9	2772.4
47.5°	3487.6	3496.5	3534.0	3504.5	3474.7	3415.5	3267.6	3245.8	3252.3	3322.0	3128.2
50°	3691.5	3702.0	3804.7	3838.6	3881.7	3847.1	3698.8	3685.5	3710.9	3773.7	3511.0
52.5°	3839.0	3860.4	3988.1	4144.0	4301.2	4324.6	4176.7	4164.6	4198.8	4208.5	3806.8
55°	3941.4	3960.3	4105.0	4390.2	4710.2	4810.9	4719.1	4672.3	4665.9	4570.4	4117.8
57.5°	3959.5	3957.5	4165.4	4549.4	5031.0	5290.9	5232.8	5186.9	5054.7	4904.8	4474.5
60°	3857.1	3868.8	4110.2	4604.6	5232.4	5653.9	5658.4	5598.7	5392.8	5230.0	4820.2
62.5°	3542.0	3589.6	3833.4	4460.0	5230.0	5800.2	5970.3	5924.7	5678.5	5496.4	5170.8
65°	3031.1	3048.0	3280.5	3964.3	4876.6	5739.0	6251.1	6234.2	5936.0	5755.1	5350.9
67.5°	2213.5	2176.8	2421.0	3121.7	4128.7	5381.9	6452.6	6474.0	6134.7	5808.3	5159.1
68°	2020.0	2030.9	2221.1	2913.4	3932.9	5255.8	6465.9	6498.5	6154.4	5773.6	5054.3
70°	1204.0	1225.0	1394.6	2005.9	2992.0	4542.2	6322.4	6397.0	6036.7	5416.2	4371.7
72.5°	307.5	332.4	492.8	897.8	1709.0	3200.3	5337.2	5463.3	5241.3	4393.9	2951.3
75°	126.5	133.0	176.1	295.8	636.7	1441.8	3517.8	3787.8	3633.5	2630.5	1333.8
77.5°	87.4	91.9	113.2	164.0	275.6	488.8	1724.7	1919.7	1729.5	897.8	290.9
80°	62.9	66.5	81.0	109.2	158.4	174.5	562.1	650.0	516.2	197.0	72.1
82.5°	37.5	40.3	60.4	77.8	96.3	83.4	139.8	158.8	149.5	97.9	32.2
85°	18.5	21.8	40.7	55.6	52.0	35.1	42.7	47.5	58.8	59.6	17.3
87.5°	1.2	2.4	23.8	33.4	14.5	8.1	12.5	15.3	21.0	29.4	7.3
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°	1012.6	1012.6	1012.6	1012.6	1012.6	1012.6	1012.6	1012.6	1012.6	1012.6	1012.6
2.5°	1015.5	1015.9	1013.0	1011.8	1012.6	1007.8	1005.8	1006.6	1006.6	1007.8	1005.8
5°	1025.5	1025.5	1020.7	1014.3	1010.6	1001.4	995.3	993.7	992.5	991.7	990.1
7.5°	1047.3	1044.9	1036.4	1022.3	1010.2	990.1	974.8	966.7	962.7	961.1	959.9
10°	1082.4	1077.9	1063.8	1037.6	1009.8	974.0	940.5	916.7	897.0	888.9	884.1
12.5°	1129.5	1123.0	1099.3	1055.8	1007.0	940.9	868.4	798.7	733.8	707.2	693.9
15°	1183.9	1174.6	1137.2	1071.1	990.5	866.4	708.8	586.7	496.8	463.0	448.5
17.5°	1239.1	1227.0	1170.2	1080.7	940.9	712.0	497.3	375.6	315.5	299.4	293.8
20°	1294.7	1277.0	1198.8	1073.5	828.9	513.4	328.0	274.4	257.1	252.3	250.6
22.5°	1347.5	1320.1	1224.6	1045.3	656.4	344.5	259.5	242.6	236.9	234.1	233.3
25°	1393.4	1355.2	1247.2	958.2	464.6	260.3	233.7	228.1	220.8	215.6	216.0
27.5°	1436.6	1390.2	1260.9	814.8	309.9	222.4	216.4	208.7	195.4	187.8	187.8
30°	1488.5	1437.0	1270.9	627.0	228.1	196.6	191.8	180.1	162.0	151.9	151.9
32.5°	1566.7	1507.9	1264.5	440.0	189.0	172.9	161.6	145.5	125.7	116.1	115.6
35°	1686.4	1617.5	1218.6	288.5	166.8	150.3	132.2	112.4	95.1	87.0	86.6
37.5°	1847.6	1764.2	1115.4	206.3	149.5	129.4	107.6	85.8	72.9	67.7	67.3
40°	2056.7	1934.6	967.9	167.2	133.4	109.2	83.0	66.5	57.6	53.6	54.0
42.5°	2307.8	2117.2	791.0	144.3	117.7	89.9	64.9	52.4	46.7	43.9	43.1
45°	2586.6	2297.3	605.6	128.5	101.9	72.5	50.8	41.5	37.1	35.5	35.5
47.5°	2893.3	2472.6	443.3	114.8	85.0	56.0	40.7	33.8	30.2	29.0	28.6
50°	3171.7	2594.3	319.5	100.3	69.7	44.3	33.0	28.2	25.8	24.2	24.2
52.5°	3403.8	2632.5	235.3	84.6	56.4	35.5	27.4	24.2	21.8	20.6	20.6
55°	3608.1	2616.8	174.9	69.7	45.5	29.0	23.4	20.6	18.5	17.3	17.3
57.5°	3803.9	2566.0	130.6	56.8	36.7	23.4	19.7	17.3	15.3	14.5	14.5
60°	3963.9	2481.4	97.1	45.9	29.4	18.9	16.5	14.1	12.5	11.3	11.3
62.5°	4093.7	2387.9	71.3	37.9	23.4	14.9	12.9	11.7	9.3	8.1	8.1
65°	4094.5	2232.8	53.6	31.4	18.1	11.7	9.7	9.3	6.0	4.8	4.4
67.5°	3798.3	1924.9	41.1	27.0	14.1	8.9	7.3	7.7	3.2	2.0	1.6
68°	3690.7	1846.8	38.7	26.6	13.3	8.5	6.9	7.7	2.8	1.6	1.2
70°	3111.7	1469.2	31.0	25.8	11.7	6.4	5.6	7.7	2.4	1.2	0.8
72.5°	1990.2	852.7	23.0	20.6	8.9	4.8	3.6	6.9	2.4	0.8	0.4
75°	847.0	264.3	15.7	14.5	5.2	3.6	2.4	4.4	1.6	0.4	0.0
77.5°	178.5	59.6	9.3	8.9	3.6	2.4	1.6	1.2	0.4	0.0	0.0
80°	45.9	17.3	4.8	4.4	2.0	1.2	0.8	0.0	0.0	0.0	0.0
82.5°	14.5	6.9	2.8	2.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.3	4.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	1.2	0.4	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)