

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: P322547

Luminaire Tested: **GAN-SA3A-740-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10104 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

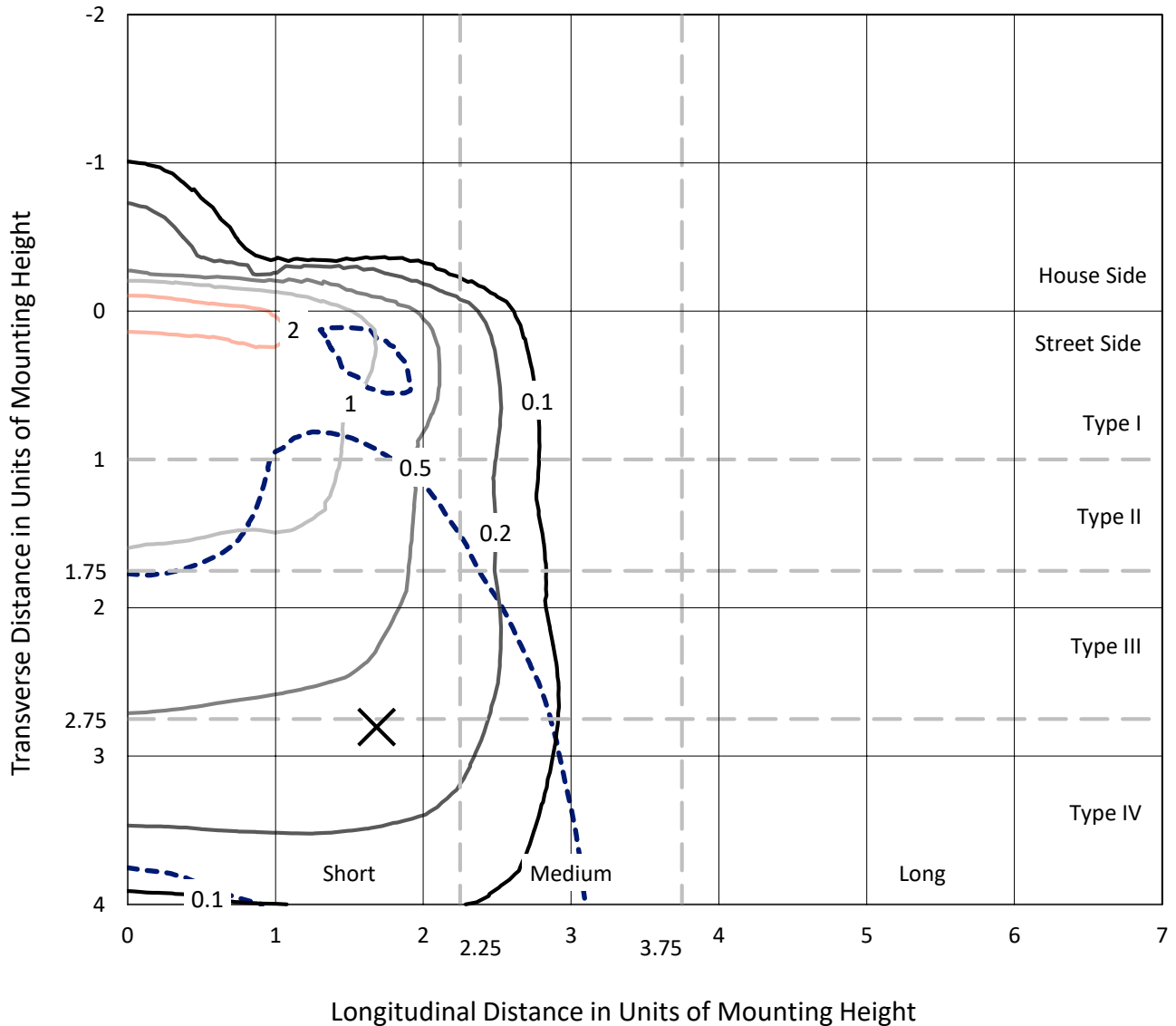
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

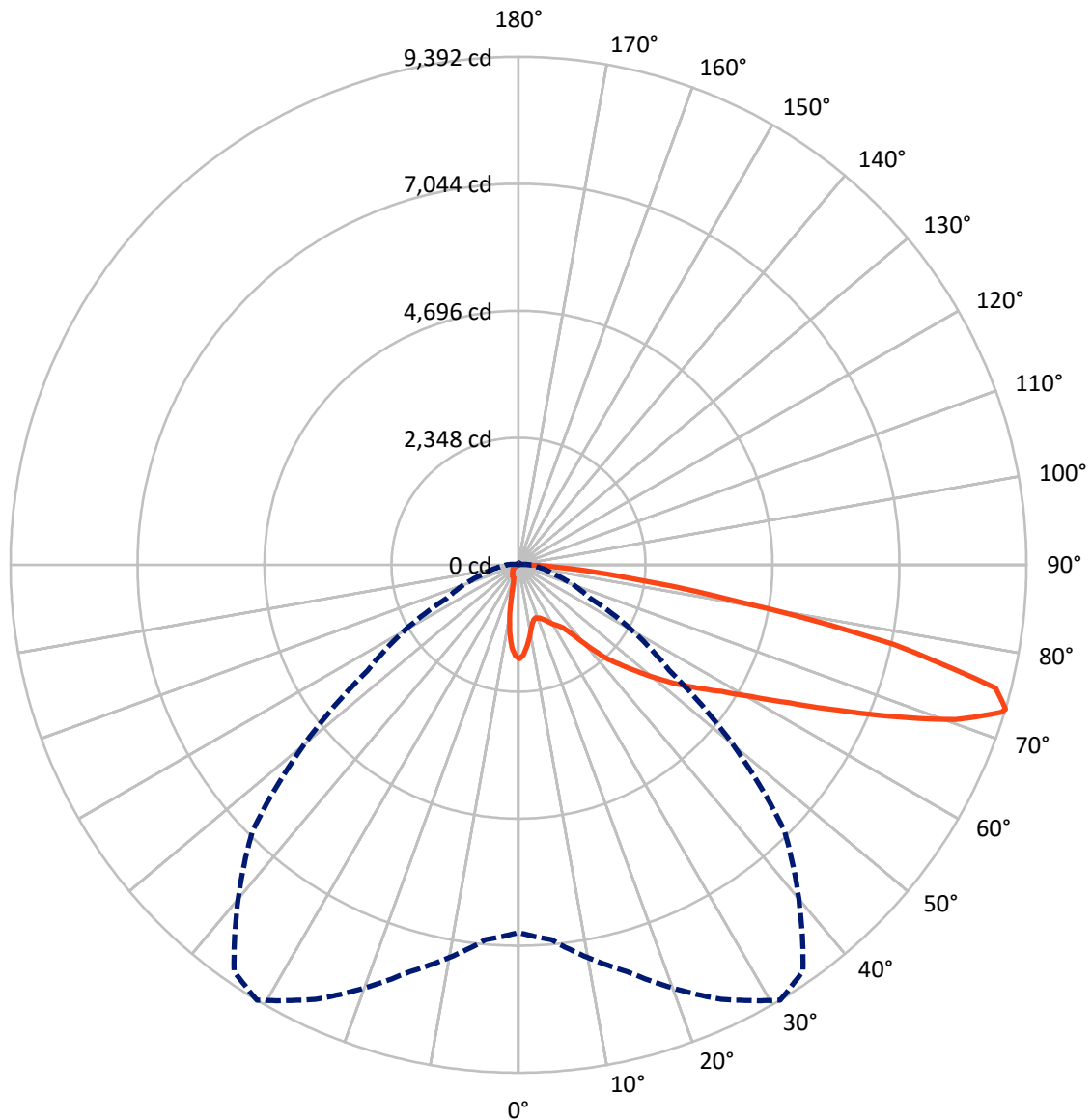
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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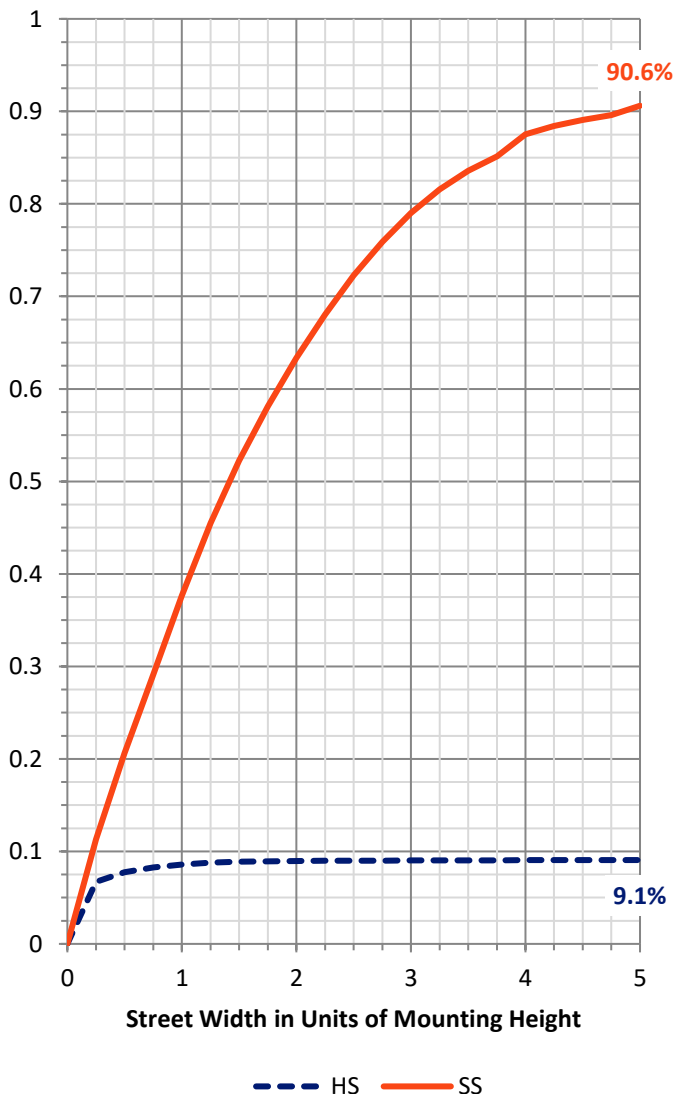
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	921.0	0.0	921.0
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	9183.0	0.0	9183.0
	% Fixture	90.9	0.0	90.9
Total	Lumens	10104.0	0.0	10104.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	1.4
10°-20°	313.0	3.1
20°-30°	468.9	4.6
30°-40°	746.0	7.4
40°-50°	1332.2	13.2
50°-60°	2067.2	20.5
60°-70°	2748.1	27.2
70°-80°	2067.1	20.5
80°-90°	217.2	2.1
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°	10104.0	100.0
0°-180°	10104.0	100.0

Coefficient of Utilization

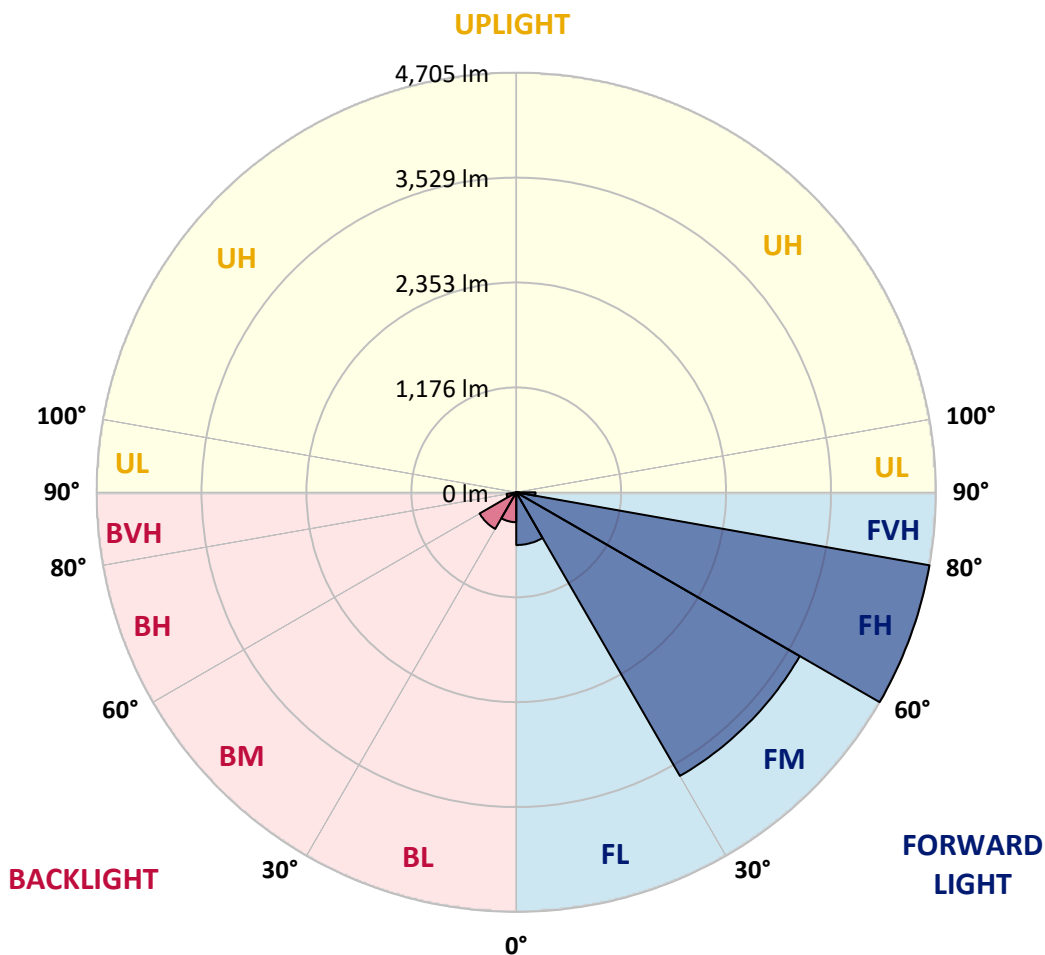


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	591.1	5.9			
FM (30°-60°)	3671.4	36.3			
FH (60°-80°)	4705.1	46.6			G2/5000
FVH (80°-90°)	215.4	2.1			G2/225
BL (0°-30°)	334.9	3.3	B1/500		
BM (30°-60°)	474.1	4.7	B1/1000		
BH (60°-80°)	110.2	1.1	B1/500		G1/500
BVH (80°-90°)	1.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1738.4	1738.4	1738.4	1738.4	1738.4	1738.4	1738.4	1738.4	1738.4	1738.4	1738.4
2.5°	1647.4	1654.4	1661.8	1663.3	1675.6	1676.1	1693.9	1707.3	1720.6	1733.5	1737.9
5°	1478.3	1489.7	1503.1	1516.4	1542.6	1553.0	1596.5	1641.0	1683.5	1724.1	1743.9
7.5°	1297.9	1310.7	1329.5	1362.6	1391.8	1412.1	1480.8	1559.9	1639.0	1713.7	1756.7
10°	1133.2	1145.1	1164.9	1200.0	1245.0	1272.7	1365.1	1474.9	1591.1	1704.3	1776.0
12.5°	1028.4	1034.8	1045.7	1083.3	1123.8	1155.0	1263.8	1399.7	1551.5	1703.8	1807.1
15°	1009.1	1011.1	1002.2	1019.0	1050.7	1080.8	1191.1	1338.9	1521.4	1711.7	1847.7
17.5°	1039.8	1038.8	1009.1	1007.2	1032.4	1057.1	1155.5	1296.9	1500.1	1730.0	1900.1
20°	1086.3	1082.8	1031.4	1022.0	1048.7	1071.9	1153.0	1281.1	1492.2	1760.7	1963.9
22.5°	1148.1	1142.1	1061.5	1051.7	1080.3	1104.6	1183.7	1296.4	1499.1	1801.7	2038.0
25°	1224.7	1215.8	1113.5	1102.6	1131.7	1156.0	1238.5	1340.4	1519.9	1851.6	2132.0
27.5°	1311.2	1298.4	1196.5	1168.3	1201.5	1226.7	1311.7	1407.6	1552.5	1904.5	2247.2
30°	1392.8	1376.0	1284.0	1237.6	1278.1	1306.3	1390.8	1487.7	1604.9	1986.1	2404.9
32.5°	1474.9	1456.1	1362.2	1306.8	1343.4	1374.0	1472.4	1598.0	1703.3	2110.7	2614.5
35°	1663.8	1644.0	1528.8	1437.3	1436.8	1454.1	1586.6	1748.8	1833.3	2284.3	2864.7
37.5°	1981.7	1970.3	1860.5	1687.0	1640.5	1621.2	1742.4	1928.8	2020.2	2523.1	3147.0
40°	2329.8	2319.9	2196.7	2039.5	1968.8	1921.4	1965.9	2179.4	2284.3	2814.8	3435.3
42.5°	2722.8	2675.9	2456.3	2409.4	2346.1	2310.0	2269.9	2488.5	2608.6	3132.2	3721.1
45°	3079.8	3000.7	2715.9	2644.7	2630.4	2639.3	2661.5	2903.8	2973.5	3509.5	4005.9
47.5°	3292.4	3230.1	3011.6	2943.3	2939.4	2998.2	3166.3	3373.0	3336.9	3838.3	4256.5
50°	3494.6	3438.3	3256.8	3273.6	3291.9	3372.0	3739.4	3855.6	3668.7	4136.4	4486.5
52.5°	3658.3	3572.3	3477.3	3571.8	3661.7	3790.8	4330.7	4288.7	3904.0	4373.7	4683.2
55°	3752.7	3713.7	3759.6	3854.6	4023.7	4233.3	4888.9	4649.1	4076.1	4590.3	4814.3
57.5°	4098.8	4022.2	4113.7	4195.7	4416.2	4709.4	5367.0	4917.6	4200.2	4724.3	4844.4
60°	4517.6	4455.8	4509.7	4646.2	4943.8	5288.4	5814.0	5136.6	4264.9	4810.3	4766.3
62.5°	5184.1	5102.5	5068.9	5221.7	5616.2	5992.5	6153.2	5288.4	4250.6	4772.2	4498.3
65°	6077.0	5992.5	5842.2	5980.6	6482.5	6748.0	6532.4	5320.6	4151.7	4464.2	3821.0
67.5°	6991.7	6930.4	6801.9	7035.2	7488.1	7573.7	6933.4	5242.4	3833.3	3619.7	2699.6
70°	7595.9	7569.7	7653.3	8169.5	8573.4	8548.7	7301.2	4822.7	2987.8	2225.9	1335.5
72.5°	7160.3	7285.9	7903.0	8838.9	9332.4	9130.6	7112.4	3703.3	1707.8	856.4	386.1
73°	6799.4	6960.1	7790.7	8864.1	9392.2	9171.2	6953.7	3399.2	1455.6	675.9	292.7
75°	4730.2	4927.5	6449.8	8255.5	9112.3	8738.1	5796.2	2080.6	674.4	299.6	118.2
77.5°	2296.6	2442.5	3551.5	5964.8	7086.7	6827.1	3608.3	775.3	304.6	187.4	54.4
80°	857.3	953.3	1541.6	3035.8	4095.4	4202.7	1587.1	293.2	202.7	150.8	27.7
82.5°	224.5	250.2	568.6	1353.7	2098.9	2196.7	500.4	147.8	148.3	124.1	16.8
85°	71.7	82.1	177.5	607.7	988.9	868.2	130.5	71.7	107.8	92.5	9.4
87.5°	8.9	11.4	56.4	142.9	218.0	121.1	20.3	21.3	46.0	51.4	5.4
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°	1738.4	1738.4	1738.4	1738.4	1738.4	1738.4	1738.4	1738.4	1738.4	1738.4	1738.4
2.5°	1742.4	1739.9	1740.4	1727.5	1719.1	1702.3	1685.0	1677.1	1668.7	1665.2	1668.7
5°	1751.3	1746.8	1734.0	1694.4	1652.4	1598.0	1547.1	1508.5	1460.1	1446.7	1460.5
7.5°	1765.1	1756.2	1718.6	1638.0	1544.6	1440.8	1324.1	1239.0	1169.3	1124.3	1140.6
10°	1785.4	1768.6	1692.9	1556.0	1388.9	1204.9	1039.3	910.2	818.8	781.2	779.7
12.5°	1819.5	1787.9	1661.3	1449.2	1198.5	953.3	736.2	596.3	522.1	474.2	473.2
15°	1857.1	1810.6	1621.2	1321.1	977.0	682.8	474.2	367.9	319.9	304.6	302.6
17.5°	1903.1	1836.8	1569.3	1163.4	745.1	452.4	309.5	278.9	276.9	275.4	275.4
20°	1960.9	1868.0	1502.6	982.9	528.5	302.1	263.0	265.0	266.0	264.0	264.5
22.5°	2028.1	1899.6	1423.0	789.1	357.5	252.7	251.7	254.1	255.1	254.1	254.6
25°	2106.3	1936.2	1326.1	585.9	258.1	239.8	242.3	245.7	248.2	248.2	248.2
27.5°	2203.2	1980.7	1209.4	408.9	223.0	226.4	233.4	239.8	243.3	244.2	244.2
30°	2329.3	2036.1	1069.5	280.3	202.7	208.6	221.5	233.9	240.3	241.3	241.8
32.5°	2488.5	2098.4	907.3	207.2	185.4	189.9	203.7	224.5	236.8	238.8	238.8
35°	2670.9	2170.5	732.7	180.5	173.1	174.5	185.4	209.1	230.9	236.3	236.8
37.5°	2870.7	2241.7	557.2	168.6	162.7	162.7	170.6	190.8	216.6	233.4	235.3
40°	3057.1	2284.8	390.6	159.2	153.3	153.3	160.2	175.0	199.3	224.5	229.9
42.5°	3229.1	2299.6	271.9	150.3	144.4	145.9	151.8	163.7	182.0	207.2	212.1
45°	3406.1	2297.1	198.3	139.9	135.5	139.9	144.4	153.3	166.6	181.0	182.0
47.5°	3539.6	2276.4	157.2	130.0	127.1	133.0	137.0	142.9	150.3	149.3	149.3
50°	3664.7	2225.9	126.6	116.7	118.7	125.6	127.6	129.5	130.0	120.6	119.7
52.5°	3759.6	2147.3	101.4	102.3	110.3	117.2	115.2	112.2	107.3	95.9	93.9
55°	3791.3	1996.0	79.6	84.5	97.9	106.8	99.4	93.0	83.6	74.2	72.2
57.5°	3733.9	1800.7	64.8	65.8	82.6	90.0	81.6	74.2	63.8	55.9	54.4
60°	3612.3	1583.7	53.4	49.4	63.8	70.2	64.8	57.4	48.0	42.0	41.5
62.5°	3371.0	1352.3	44.0	38.6	48.5	53.9	50.4	45.0	37.1	33.1	32.6
65°	2863.7	1081.8	35.6	31.1	37.6	42.0	39.1	35.1	29.2	26.2	25.7
67.5°	1999.0	731.3	29.2	25.7	29.7	33.1	30.7	28.7	23.2	22.7	23.2
70°	964.1	352.5	24.2	20.8	23.2	25.7	24.7	23.2	22.2	25.7	29.7
72.5°	276.4	118.2	19.3	17.3	18.8	20.3	21.3	20.8	24.2	31.1	36.1
73°	212.6	95.4	18.3	16.3	17.8	19.8	20.8	20.3	24.7	31.6	36.1
75°	91.0	46.0	13.8	13.3	14.8	17.3	18.3	18.3	24.7	32.1	34.6
77.5°	41.0	24.7	8.9	10.4	12.9	13.8	15.3	15.3	19.8	24.7	24.7
80°	23.2	13.3	6.9	7.9	9.4	9.4	9.4	8.4	8.9	9.9	10.9
82.5°	14.8	8.9	5.4	6.4	5.9	4.9	4.0	4.0	3.5	4.0	4.9
85°	8.4	4.9	4.9	4.0	2.5	2.0	2.5	2.0	0.5	0.0	0.5
87.5°	4.9	3.0	1.5	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)