

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: P320985

Luminaire Tested: **GAN-SA1A-750-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320985  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1A-750-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5006 lumens  
Efficiency: N/A  
Efficacy: 147.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

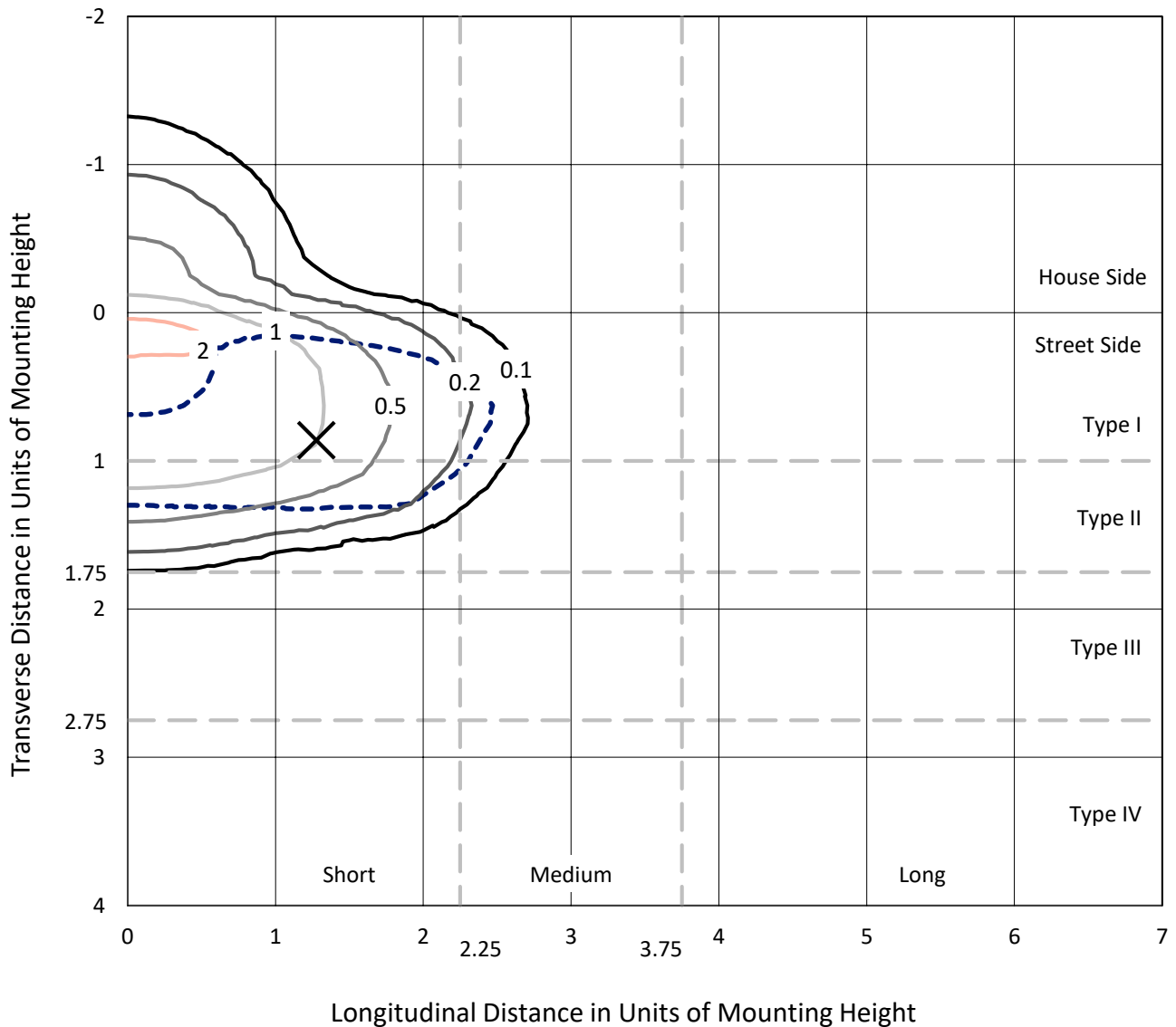
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

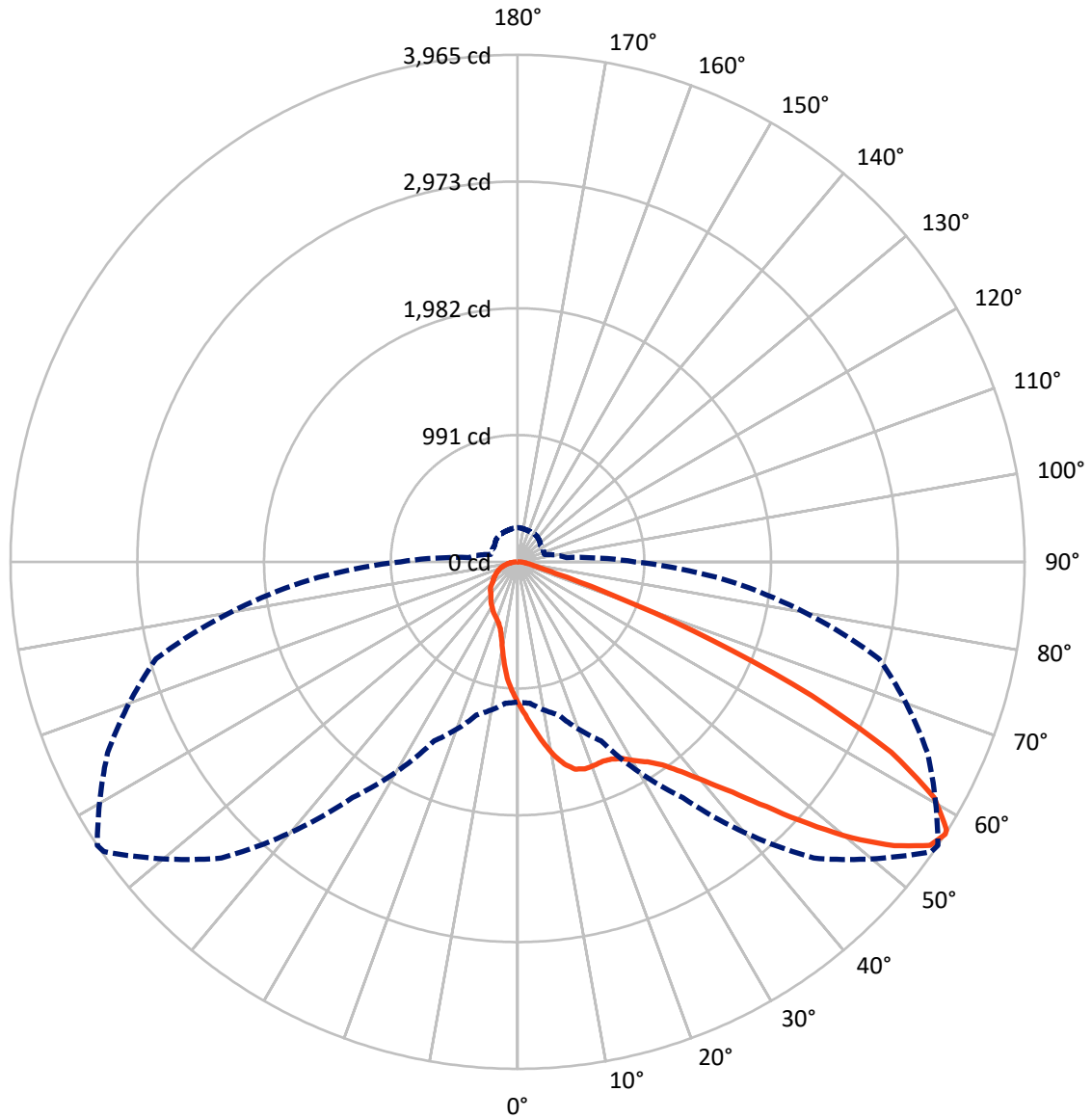
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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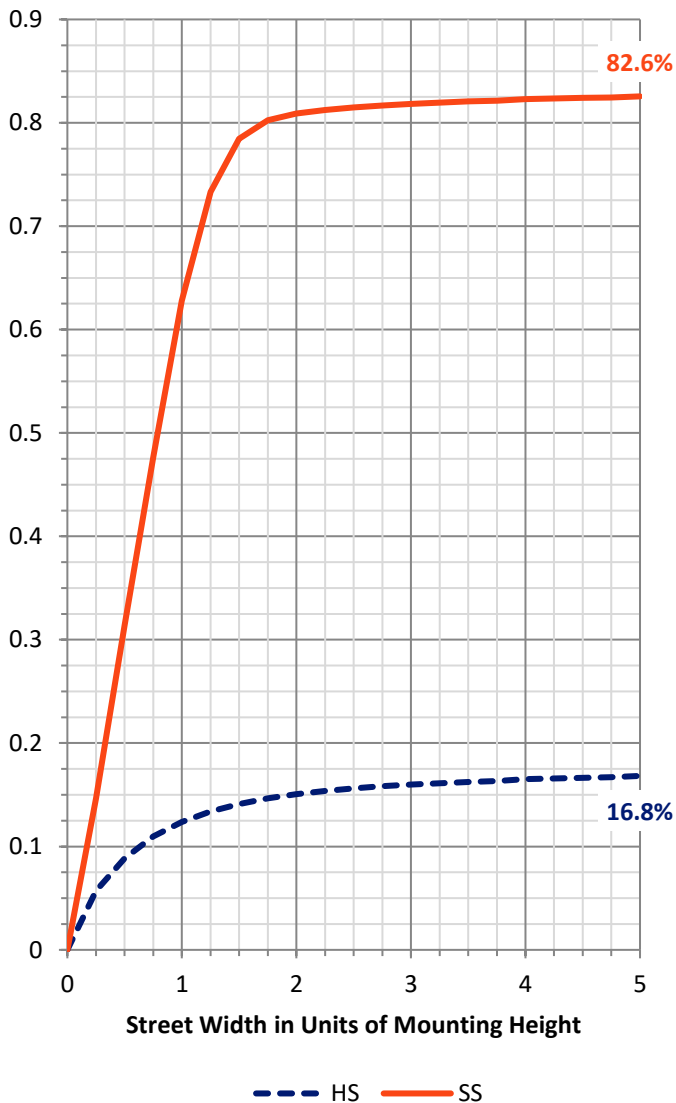
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	862.9	0.0	862.9
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	4143.1	0.0	4143.1
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	5006.0	0.0	5006.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.1	2.1
10°-20°	299.9	6.0
20°-30°	488.4	9.8
30°-40°	730.1	14.6
40°-50°	1107.5	22.1
50°-60°	1241.3	24.8
60°-70°	733.2	14.6
70°-80°	240.2	4.8
80°-90°	59.3	1.2
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°	5006.0	100.0
0°-180°	5006.0	100.0

**Coefficient of Utilization**

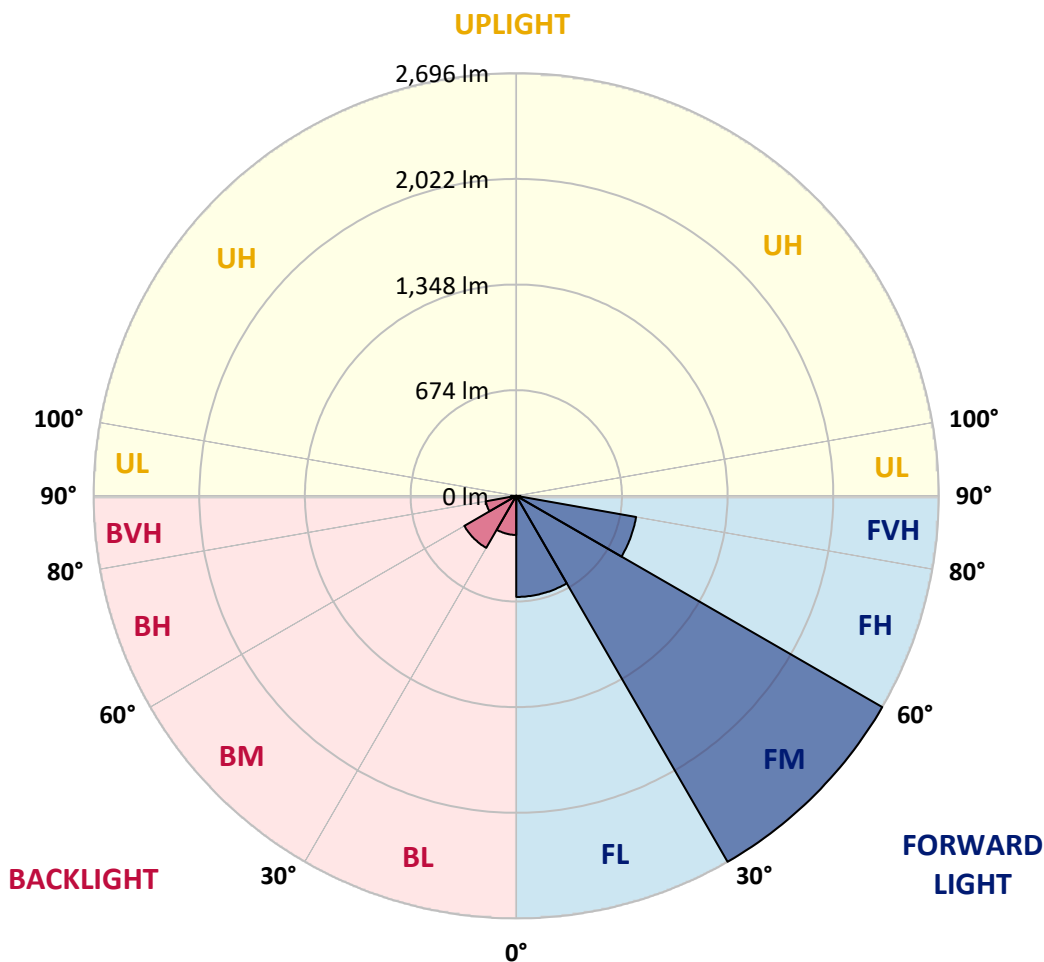


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	644.8	12.9			
FM (30°-60°)	2695.9	53.9			
FH (60°-80°)	776.2	15.5			G1/1800
FVH (80°-90°)	26.1	0.5			G1/100
BL (0°-30°)	249.5	5.0	B1/500		
BM (30°-60°)	383.0	7.7	B1/1000		
BH (60°-80°)	197.2	3.9	B1/500		G1/500
BVH (80°-90°)	33.2	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3
2.5°	1275.0	1286.7	1281.5	1263.6	1249.9	1230.4	1208.7	1202.2	1179.3	1153.7	1122.9
5°	1476.8	1470.9	1462.5	1434.6	1405.2	1371.0	1316.6	1308.0	1257.1	1199.1	1137.9
7.5°	1591.7	1591.2	1586.2	1569.8	1543.0	1498.3	1432.7	1422.6	1345.7	1252.4	1157.5
10°	1575.0	1573.8	1582.1	1599.1	1607.2	1597.9	1542.7	1532.5	1438.1	1311.4	1180.2
12.5°	1480.2	1480.9	1494.2	1529.9	1578.6	1637.1	1628.2	1623.2	1533.9	1378.2	1207.7
15°	1406.4	1408.0	1418.5	1449.6	1507.1	1613.2	1680.1	1681.8	1626.6	1451.8	1239.9
17.5°	1374.1	1377.3	1382.2	1404.0	1456.6	1565.5	1692.5	1701.8	1707.8	1528.2	1270.8
20°	1384.4	1387.5	1388.9	1402.8	1446.0	1536.6	1683.9	1700.6	1770.1	1600.1	1301.8
22.5°	1430.7	1432.6	1433.4	1437.0	1470.6	1544.9	1678.2	1695.8	1815.2	1664.6	1325.2
25°	1507.4	1506.0	1500.5	1495.9	1518.4	1577.6	1691.3	1708.0	1851.8	1723.1	1340.5
27.5°	1599.3	1597.5	1586.9	1574.2	1587.1	1628.5	1729.0	1742.2	1884.7	1777.8	1348.3
30°	1709.5	1705.1	1684.9	1669.8	1674.8	1704.9	1791.1	1803.1	1935.4	1839.9	1355.8
32.5°	1837.0	1832.2	1803.1	1778.0	1778.0	1803.1	1855.1	1865.1	1978.4	1910.1	1368.0
35°	1996.7	1990.7	1952.8	1910.7	1898.8	1911.5	1942.3	1949.4	2055.9	1998.6	1390.2
37.5°	2184.9	2176.8	2127.8	2071.3	2045.4	2044.7	2066.9	2081.3	2179.6	2114.7	1427.9
40°	2373.6	2367.9	2325.1	2280.7	2229.8	2213.4	2247.7	2252.2	2341.3	2258.9	1476.1
42.5°	2519.5	2518.5	2510.6	2516.4	2464.3	2431.2	2458.1	2461.7	2538.8	2414.9	1527.4
45°	2596.6	2598.3	2636.7	2721.6	2740.9	2716.8	2730.1	2731.1	2764.5	2572.3	1574.3
47.5°	2534.8	2543.8	2640.8	2830.9	2988.6	3068.6	3046.6	3059.4	2983.3	2707.5	1611.1
50°	2294.1	2305.1	2470.3	2782.2	3104.3	3409.1	3397.6	3394.7	3159.8	2806.6	1631.1
52.5°	1996.0	2004.6	2140.8	2529.1	3019.4	3597.3	3703.1	3688.0	3316.7	2880.8	1634.9
55°	1542.0	1555.4	1686.0	2024.0	2676.4	3525.4	3927.8	3914.2	3459.7	2919.7	1630.4
57°	1096.2	1110.3	1240.1	1544.7	2251.5	3276.5	3950.2	3964.6	3536.9	2926.2	1635.4
57.5°	978.2	992.7	1121.2	1417.1	2119.0	3186.5	3930.9	3955.0	3550.9	2925.2	1638.1
60°	492.5	498.1	579.9	791.0	1339.5	2576.1	3679.6	3741.7	3563.4	2874.6	1650.0
62.5°	306.2	302.3	299.7	364.4	651.7	1708.3	3160.9	3280.4	3323.1	2752.1	1621.3
65°	269.2	261.8	233.5	228.3	287.8	829.7	2380.3	2529.1	2809.6	2559.1	1552.8
67.5°	252.9	245.7	213.7	194.4	194.6	328.9	1477.8	1645.4	2188.7	2232.7	1391.3
70°	236.0	229.5	199.6	176.9	165.7	182.2	679.9	807.0	1426.7	1755.0	1162.8
72.5°	214.4	209.9	181.5	158.1	146.2	136.4	260.3	307.4	826.0	1178.6	807.5
75°	191.7	187.5	163.3	140.9	126.4	107.4	146.6	157.9	419.6	603.0	397.6
77.5°	166.7	164.3	145.2	124.6	113.0	88.9	103.7	109.2	180.0	258.6	199.4
80°	132.6	137.3	127.0	111.0	100.3	71.2	73.5	77.1	104.8	126.3	113.2
82.5°	86.4	94.4	99.4	90.1	82.6	56.1	52.8	54.4	68.3	77.1	49.2
85°	36.0	40.4	65.4	59.0	54.9	40.9	35.4	36.1	42.3	43.9	20.1
87.5°	16.0	17.0	28.7	27.0	23.2	14.1	15.1	16.5	22.5	21.3	7.7
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°	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3
2.5°	1111.4	1096.9	1072.1	1044.8	1022.4	1004.5	986.5	974.1	959.6	951.9	947.9
5°	1112.2	1083.8	1031.7	978.2	930.4	886.7	845.1	813.1	783.1	766.9	762.5
7.5°	1115.8	1073.2	988.9	900.8	815.8	738.2	678.3	640.8	613.8	601.8	598.3
10°	1118.8	1060.6	935.9	805.5	689.9	611.3	564.8	543.8	534.5	533.0	531.4
12.5°	1125.6	1047.7	880.1	706.0	592.0	537.6	521.4	520.1	522.7	526.4	526.4
15°	1136.5	1035.0	816.5	620.7	529.7	510.6	513.9	521.4	528.5	534.4	535.2
17.5°	1144.4	1019.3	748.0	552.4	496.5	501.7	513.4	524.0	531.3	536.9	537.4
20°	1150.1	995.1	674.9	500.3	477.4	493.4	508.0	517.5	522.5	528.2	529.0
22.5°	1147.2	962.6	610.0	463.0	461.9	481.4	495.3	506.7	502.9	497.4	501.0
25°	1133.0	917.8	543.3	435.1	445.6	465.2	482.4	474.8	462.1	459.7	461.1
27.5°	1107.9	860.7	481.5	409.3	426.7	450.2	449.2	441.6	437.1	434.1	435.9
30°	1080.9	798.8	427.5	386.7	405.7	425.1	421.1	421.0	416.5	411.5	413.9
32.5°	1054.3	736.5	384.7	368.2	389.8	392.4	401.0	403.6	394.8	384.3	383.6
35°	1031.0	677.7	352.2	351.3	370.7	371.1	383.6	380.0	358.2	347.3	347.3
37.5°	1013.6	619.0	327.4	336.2	345.6	354.6	360.9	346.0	342.4	336.3	336.2
40°	1006.1	567.4	311.9	324.6	327.9	339.3	322.9	328.8	330.5	327.4	327.4
42.5°	998.2	522.5	298.5	315.9	315.3	313.8	305.5	313.1	320.0	320.2	319.6
45°	990.3	483.8	286.6	297.1	304.3	287.6	289.2	297.3	306.9	310.4	310.4
47.5°	981.5	453.1	275.8	277.3	288.5	277.3	276.1	282.3	293.7	299.2	300.4
50°	962.2	425.6	263.4	259.9	263.0	266.8	267.9	270.8	283.3	292.1	294.2
52.5°	935.5	401.0	247.6	244.0	244.0	258.2	263.0	263.9	274.6	285.1	287.1
55°	913.4	385.4	231.2	230.5	229.8	249.1	257.4	258.7	266.1	274.4	275.4
57°	914.9	384.2	218.7	219.3	219.2	239.8	252.0	255.0	258.7	265.8	267.0
57.5°	915.8	385.0	215.9	216.3	216.1	237.2	250.5	253.8	256.7	264.1	265.3
60°	928.7	387.3	204.7	200.9	201.8	223.5	241.7	245.8	247.7	257.5	259.1
62.5°	909.6	377.3	195.8	186.7	186.7	209.0	229.5	236.0	239.0	252.2	254.8
65°	854.2	349.2	185.3	170.5	172.2	194.6	214.9	225.5	230.0	246.5	249.3
67.5°	768.7	316.7	174.1	156.0	157.8	179.4	199.7	211.3	218.3	240.3	242.6
70°	657.4	277.0	159.0	140.7	142.8	162.9	181.8	194.9	205.4	234.5	235.2
72.5°	484.6	227.1	137.8	123.9	126.1	143.7	163.8	178.9	193.0	219.9	219.5
75°	288.2	177.5	114.4	106.8	108.4	124.7	147.4	165.8	187.0	214.2	217.5
77.5°	174.8	133.7	93.2	89.5	91.4	108.0	135.7	155.4	184.4	202.0	200.9
80°	105.6	95.5	74.5	72.1	74.0	92.4	125.6	147.4	161.2	172.6	172.6
82.5°	55.2	58.3	54.7	52.8	55.4	75.0	114.2	128.7	142.4	122.3	114.2
85°	22.5	30.5	33.2	33.0	34.6	52.0	98.6	110.1	91.9	87.2	89.3
87.5°	7.6	12.9	16.2	13.9	14.6	32.7	68.3	53.2	63.1	44.0	41.8
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)