

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: P317425

Luminaire Tested: **GAN-SA1A-740-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317425  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1A-740-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5083 lumens  
Efficiency: N/A  
Efficacy: 149.5 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

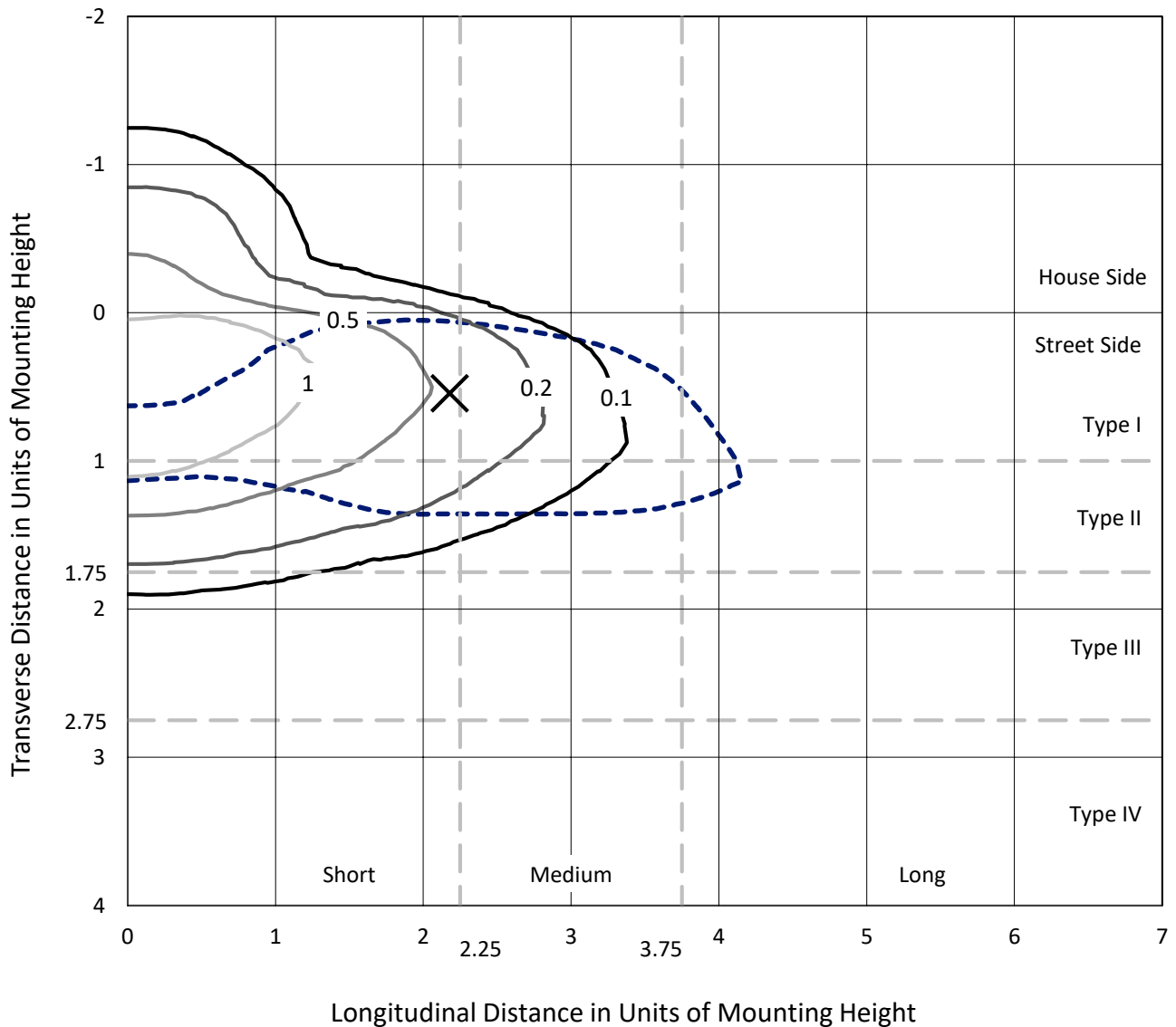
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

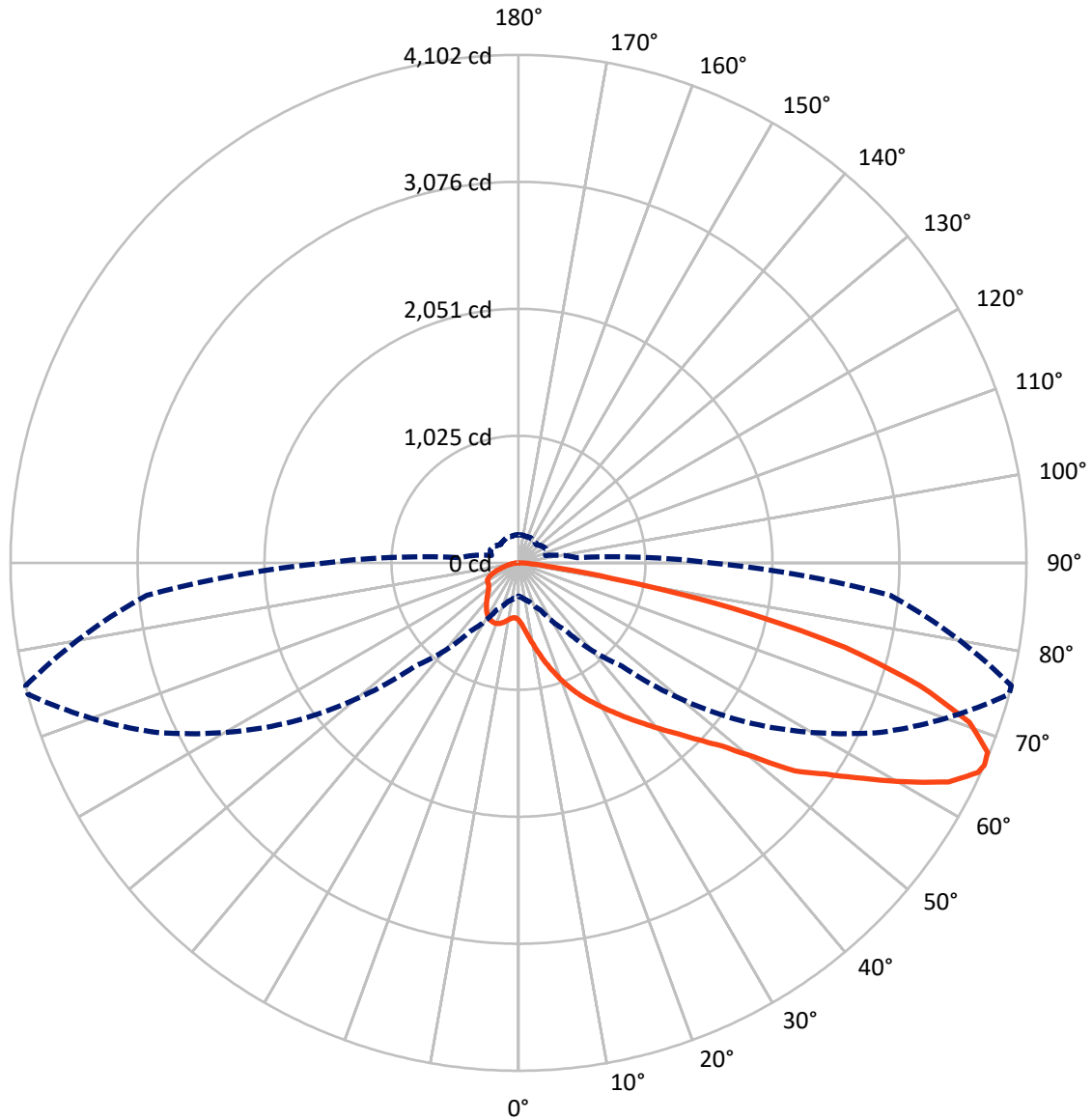
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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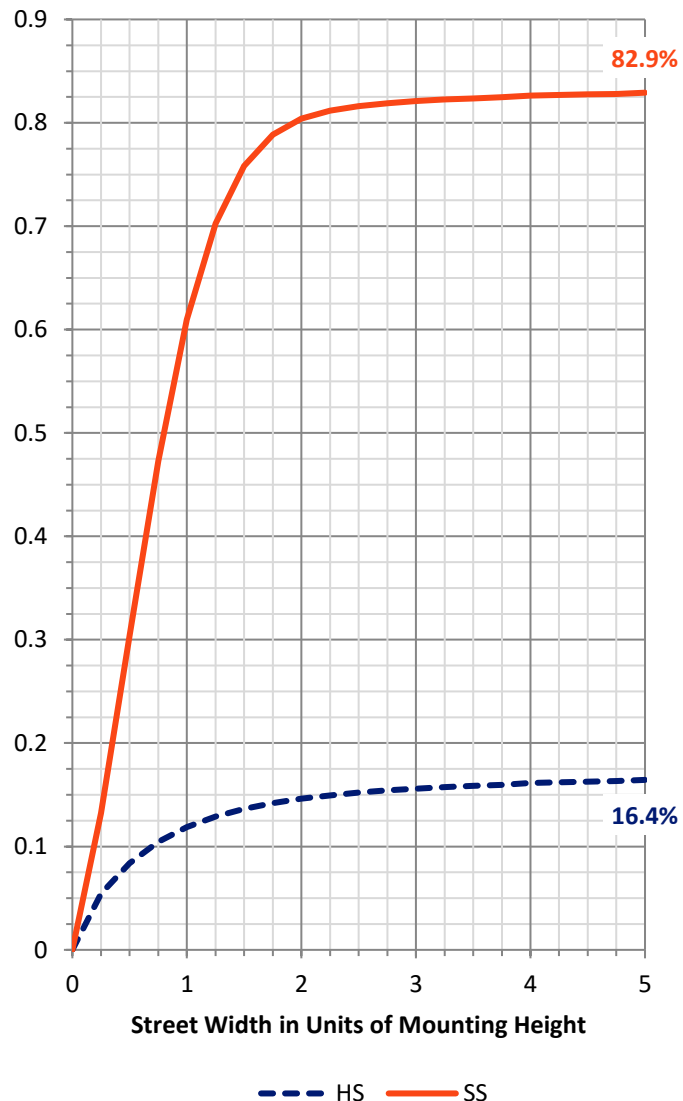
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	855.3	0.0	855.3
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	4227.7	0.0	4227.7
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	5083.0	0.0	5083.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.1	1.1
10°-20°	221.7	4.4
20°-30°	430.8	8.5
30°-40°	703.1	13.8
40°-50°	960.6	18.9
50°-60°	1118.9	22.0
60°-70°	1003.1	19.7
70°-80°	506.9	10.0
80°-90°	81.9	1.6
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°	5083.0	100.0
0°-180°	5083.0	100.0

**Coefficient of Utilization**

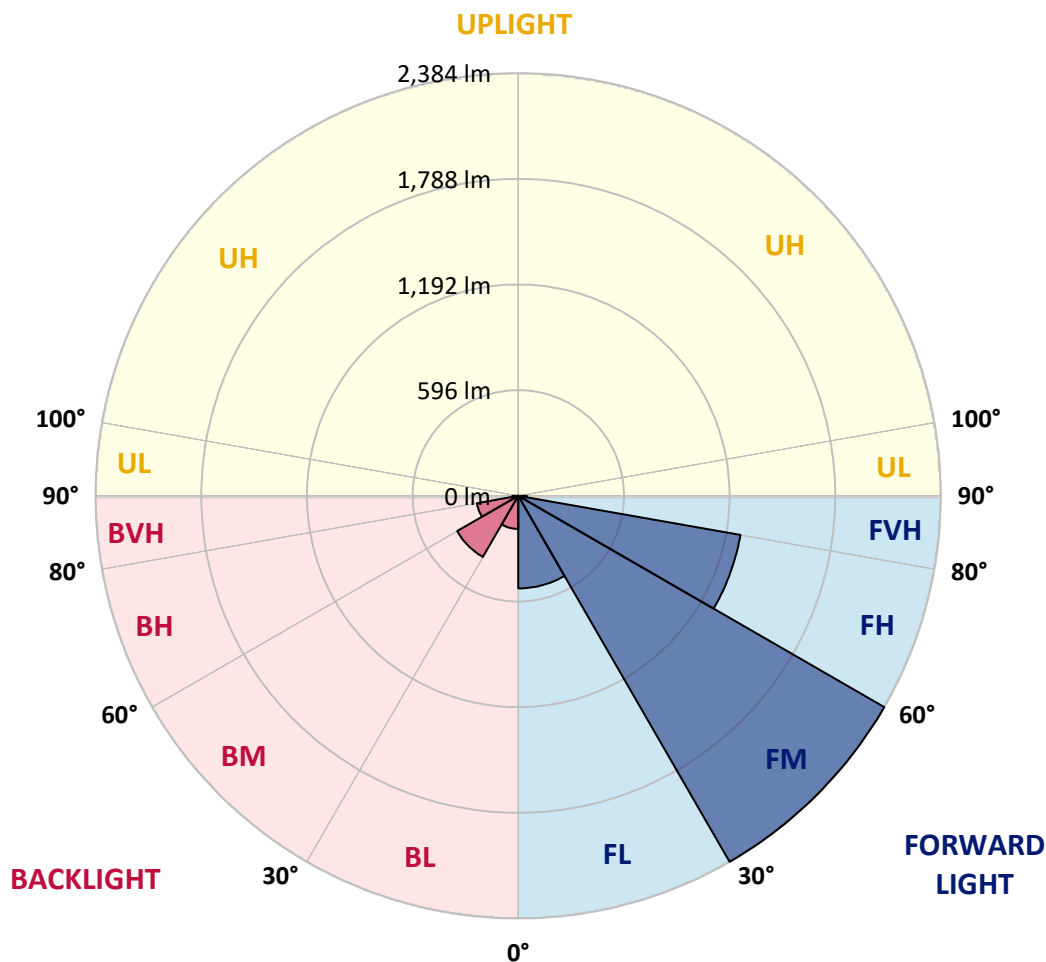


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	522.0	10.3			
FM (30°-60°)	2384.3	46.9			
FH (60°-80°)	1273.1	25.0			G1/1800
FVH (80°-90°)	48.3	1.0			G1/100
BL (0°-30°)	186.5	3.7	B1/500		
BM (30°-60°)	398.3	7.8	B1/1000		
BH (60°-80°)	237.0	4.7	B1/500		G1/500
BVH (80°-90°)	33.5	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°	65°	75°	76°	85°
0°	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2
2.5°	616.2	606.9	606.0	592.4	589.3	563.2	544.1	524.1	501.3	496.8	478.9
5°	791.5	790.7	778.8	756.5	739.1	694.6	650.6	604.0	552.9	544.6	504.2
7.5°	949.3	947.9	938.7	914.8	889.6	834.9	772.0	700.6	617.8	605.5	538.6
10°	1069.0	1068.5	1065.4	1047.8	1026.4	973.9	904.6	807.1	693.2	676.4	581.5
12.5°	1161.5	1162.6	1164.6	1158.4	1148.2	1103.5	1032.4	919.9	773.6	757.0	629.3
15°	1224.2	1227.3	1238.0	1246.8	1252.1	1224.7	1155.8	1035.4	863.7	843.8	682.3
17.5°	1255.7	1259.2	1277.7	1304.2	1328.7	1326.0	1271.3	1145.5	950.1	931.0	739.3
20°	1283.0	1285.6	1306.3	1338.2	1381.5	1400.7	1370.0	1251.4	1044.9	1022.1	799.7
22.5°	1362.0	1365.3	1371.5	1389.6	1428.0	1463.2	1448.3	1351.7	1131.7	1110.4	856.9
25°	1514.6	1518.5	1505.1	1489.7	1497.0	1521.5	1524.2	1443.1	1219.7	1195.7	918.5
27.5°	1698.4	1704.1	1681.1	1641.6	1607.1	1597.6	1594.3	1518.0	1303.7	1275.9	979.5
30°	1878.3	1888.2	1858.3	1807.1	1743.7	1699.2	1666.3	1591.4	1386.5	1360.0	1036.9
32.5°	2054.2	2050.2	2006.9	1956.9	1882.7	1826.9	1747.2	1670.1	1479.7	1449.2	1094.0
35°	2174.6	2176.0	2135.8	2076.4	2005.7	1962.9	1855.6	1755.0	1574.8	1546.7	1158.9
37.5°	2277.1	2270.7	2225.2	2169.8	2108.9	2090.6	1982.4	1848.5	1677.8	1647.1	1228.0
40°	2311.3	2303.9	2274.0	2234.2	2185.3	2183.8	2122.3	1954.4	1794.3	1763.9	1305.8
42.5°	2290.6	2281.1	2268.8	2258.0	2243.0	2249.9	2253.8	2078.7	1922.3	1888.3	1395.9
45°	2214.1	2199.8	2208.5	2232.1	2264.7	2303.7	2372.6	2216.2	2065.7	2037.3	1501.6
47.5°	2096.6	2083.7	2110.6	2161.2	2249.9	2348.6	2484.9	2368.1	2236.9	2208.6	1652.3
50°	1931.3	1935.1	1973.6	2065.6	2199.7	2369.3	2623.3	2569.1	2485.8	2459.4	1857.8
52.5°	1660.0	1660.7	1769.1	1920.1	2110.6	2358.6	2700.1	2826.1	2825.5	2793.6	2053.5
55°	1408.1	1423.5	1509.2	1709.9	1966.3	2315.8	2753.7	2951.0	3048.7	3011.2	2235.9
57.5°	1162.0	1171.0	1252.3	1453.8	1760.5	2201.7	2808.8	3100.9	3305.8	3282.1	2462.6
60°	882.1	895.9	980.0	1166.2	1497.2	1999.3	2814.0	3257.5	3613.1	3589.3	2715.8
62.5°	572.6	596.4	675.1	849.5	1178.6	1708.2	2693.9	3359.8	3904.4	3895.9	2940.5
65°	329.1	347.0	401.7	536.3	813.1	1342.7	2408.3	3320.4	4083.7	4078.9	3024.5
66°	268.9	280.1	322.0	419.2	670.9	1179.1	2242.3	3237.4	4101.5	4101.6	3014.8
67.5°	215.0	220.0	238.8	300.1	495.1	934.6	1945.6	3054.4	4079.4	4085.4	2952.5
70°	177.9	180.5	186.4	201.2	270.2	563.6	1381.0	2578.6	3857.6	3862.3	2709.4
72.5°	159.6	161.2	163.4	165.5	190.7	314.9	843.5	2062.8	3382.2	3388.3	2338.9
75°	144.6	145.5	145.1	145.3	160.0	200.7	435.9	1540.1	2734.8	2722.7	1791.7
77.5°	127.0	127.9	126.1	126.5	141.5	154.3	216.9	1078.2	1845.6	1760.3	1009.5
80°	107.3	108.0	107.3	108.5	123.2	116.5	126.1	606.6	816.0	771.9	358.9
82.5°	81.1	84.0	86.1	90.9	101.5	82.8	84.4	236.2	248.5	236.6	110.1
85°	35.5	43.3	64.9	69.5	76.3	49.7	55.4	96.3	101.1	98.0	40.0
87.5°	9.3	10.2	32.1	40.4	42.3	22.4	28.8	43.8	46.2	43.8	13.3
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°	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2
2.5°	469.4	460.9	445.7	432.3	422.1	415.2	408.3	404.8	402.8	400.7	401.0
5°	484.4	467.3	441.2	422.8	412.4	405.9	402.4	401.0	400.2	398.1	398.1
7.5°	507.0	482.8	446.9	428.0	419.8	414.8	412.8	412.1	411.0	408.6	409.0
10°	535.5	501.6	458.8	440.4	433.0	427.4	424.5	423.5	421.6	418.8	419.2
12.5°	568.9	524.9	474.5	455.2	446.2	438.8	434.0	431.1	427.8	424.2	424.3
15°	605.5	550.3	491.5	468.5	456.3	445.9	438.1	433.1	428.0	423.5	423.3
17.5°	642.6	574.8	504.4	475.8	459.2	445.6	435.0	427.3	420.9	415.4	414.8
20°	682.7	596.9	511.6	475.1	453.7	437.4	423.5	413.8	406.7	401.2	400.3
22.5°	723.4	617.6	512.9	468.0	441.4	421.6	406.9	396.2	389.0	383.3	381.2
25°	760.7	633.6	507.9	454.4	424.3	402.9	388.6	377.7	371.9	365.1	363.1
27.5°	794.6	644.9	497.8	436.9	405.2	384.1	370.7	361.3	355.0	349.8	348.1
30°	825.2	650.9	481.4	416.2	385.5	366.3	355.0	348.6	343.1	336.5	335.3
32.5°	854.2	650.9	460.4	393.6	366.0	350.6	343.9	339.9	333.7	327.4	325.6
35°	883.2	646.9	435.5	370.0	348.1	339.4	339.1	334.4	324.9	316.3	314.1
37.5°	913.7	638.8	407.6	347.9	333.4	334.4	337.4	327.0	313.5	301.3	298.0
40°	948.2	627.6	378.6	328.7	321.1	332.2	332.7	316.3	290.1	278.9	275.9
42.5°	988.8	616.4	351.7	311.8	311.5	325.5	323.9	293.2	277.5	271.8	270.2
45°	1042.1	610.0	326.1	295.8	303.9	314.6	308.9	280.4	273.9	270.6	269.2
47.5°	1126.1	613.3	302.7	283.0	296.3	303.7	280.9	275.2	270.6	266.6	265.2
50°	1231.4	611.4	283.7	274.2	287.7	292.3	268.3	268.5	266.1	261.6	259.5
52.5°	1310.6	596.5	271.4	269.2	280.1	272.1	260.4	261.9	260.7	254.2	251.9
55°	1387.1	583.8	265.2	267.3	274.5	246.9	251.1	254.9	253.7	247.3	246.2
57.5°	1482.1	581.4	261.4	267.8	269.9	234.3	242.1	247.1	246.2	243.5	243.0
60°	1598.6	582.1	258.0	268.7	264.7	225.0	233.6	240.0	240.6	240.0	239.7
62.5°	1662.6	563.2	249.4	266.3	255.6	216.9	224.8	234.2	234.3	235.4	235.2
65°	1608.3	507.0	233.3	257.8	240.2	210.2	217.3	227.4	224.8	229.5	229.5
66°	1555.5	474.5	225.4	252.3	233.6	207.6	214.8	224.0	220.7	227.1	227.1
67.5°	1447.6	419.8	211.0	240.6	224.3	204.0	212.1	218.3	213.8	223.3	222.6
70°	1250.6	324.8	182.2	214.0	209.0	198.6	208.3	206.9	200.3	214.8	212.1
72.5°	1054.4	246.8	146.3	179.1	185.7	191.9	202.9	192.4	184.1	194.3	188.3
75°	818.1	185.5	115.6	139.3	156.9	181.4	196.5	175.7	163.8	162.7	159.4
77.5°	442.3	127.4	91.6	106.3	124.6	168.2	192.2	157.7	139.8	135.6	133.0
80°	175.2	82.8	66.6	80.6	87.1	149.3	181.9	136.8	115.3	111.1	107.2
82.5°	72.3	49.0	43.0	54.0	56.8	127.7	163.2	112.2	89.0	123.2	130.8
85°	31.1	26.9	25.5	28.0	32.1	89.6	129.9	85.6	96.1	85.8	68.2
87.5°	9.3	11.4	10.9	10.7	11.7	21.4	69.2	47.6	70.6	26.7	20.0
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)