

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: P319105

Luminaire Tested: **GAN-SA1A-760-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4845 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

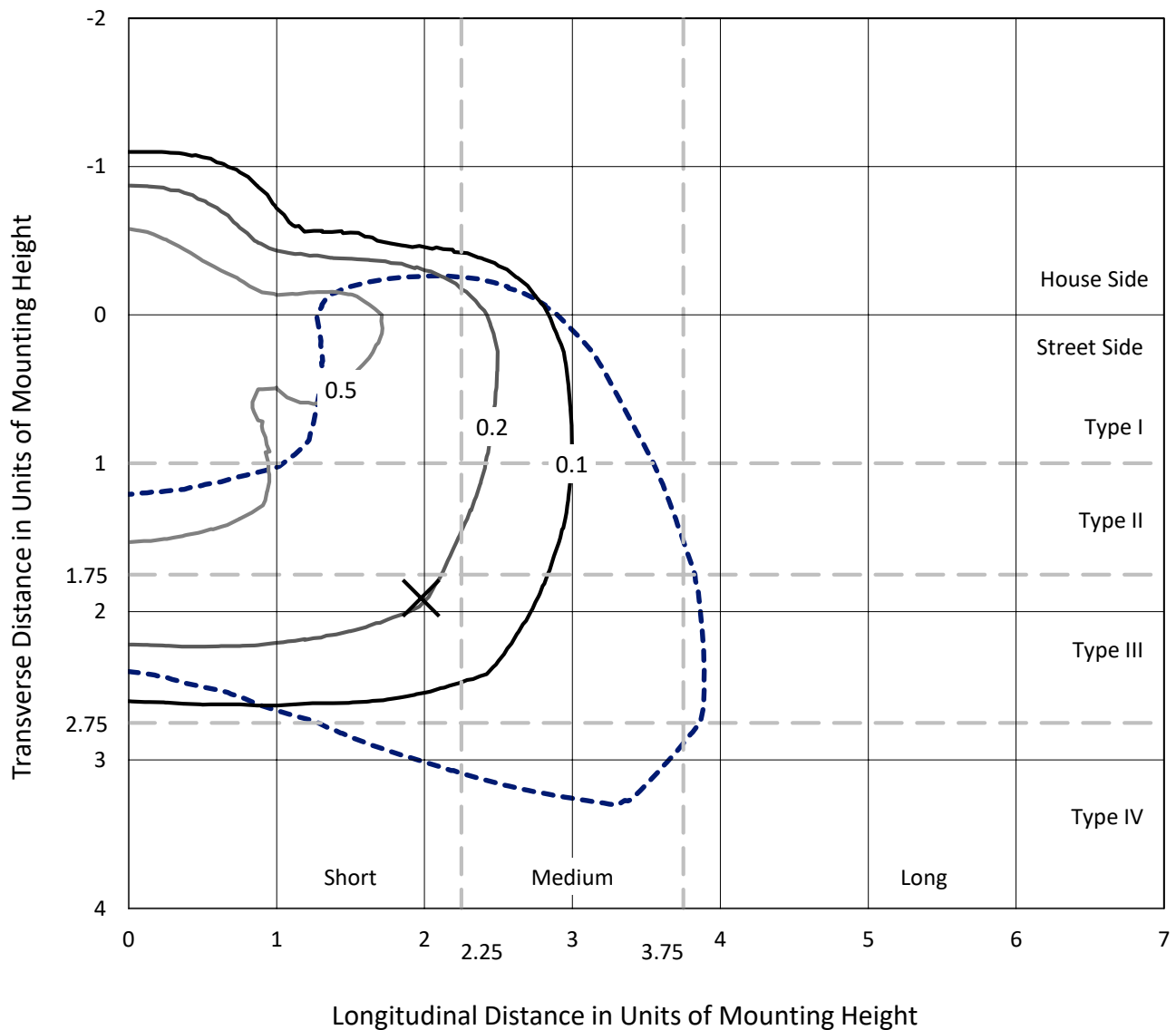
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

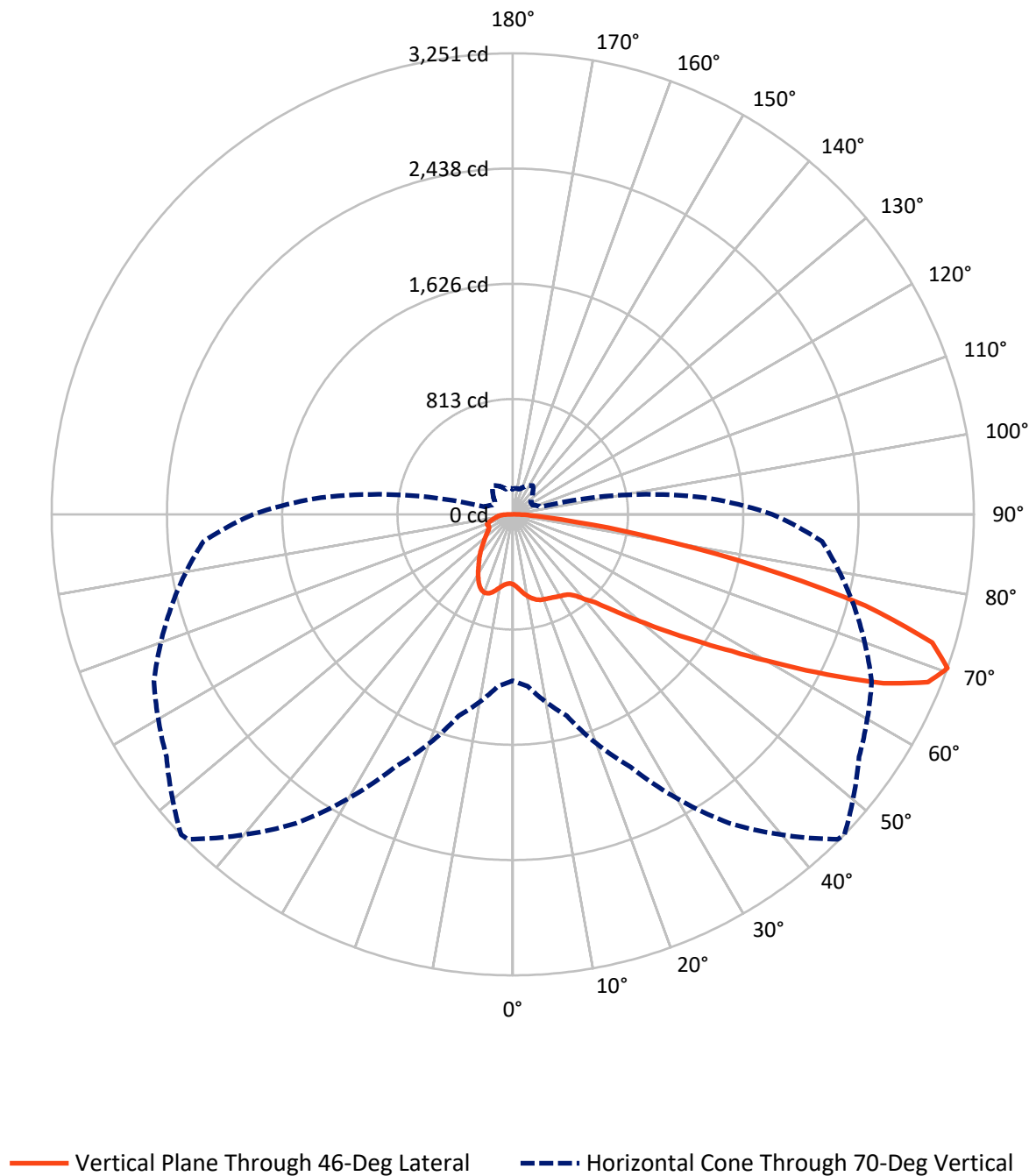
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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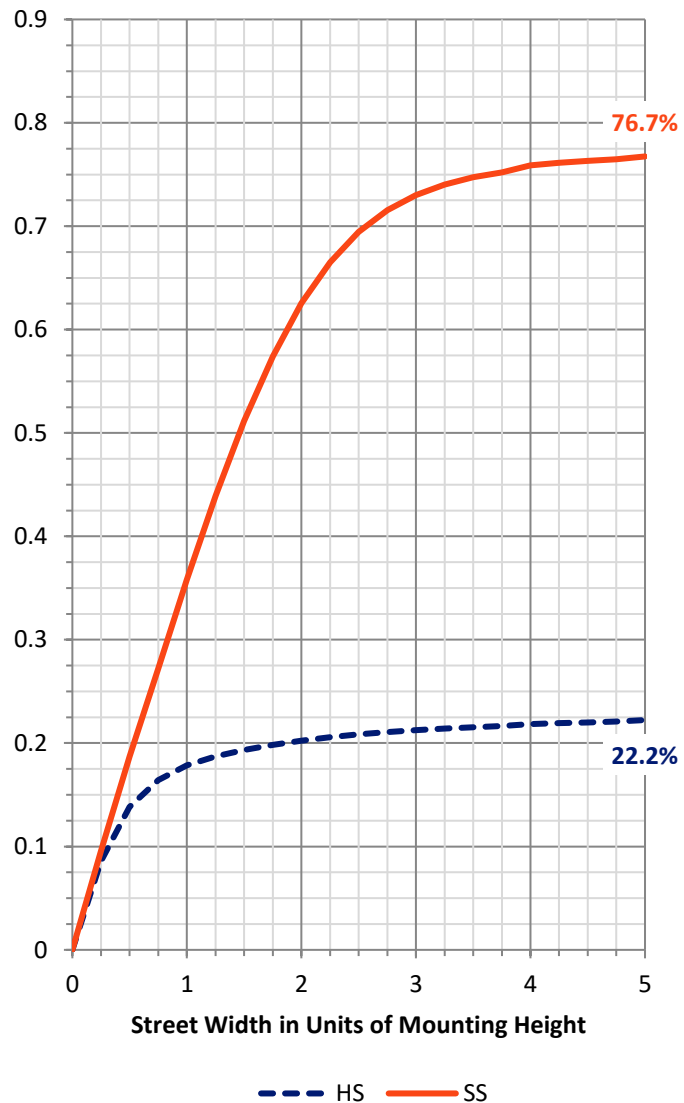
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1110.5	0.0	1110.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3734.5	0.0	3734.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	4845.0	0.0	4845.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.3	1.0
10°-20°	167.7	3.5
20°-30°	279.5	5.8
30°-40°	396.7	8.2
40°-50°	583.5	12.0
50°-60°	988.2	20.4
60°-70°	1402.7	29.0
70°-80°	852.1	17.6
80°-90°	124.4	2.6
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°	4845.0	100.0
0°-180°	4845.0	100.0

Coefficient of Utilization



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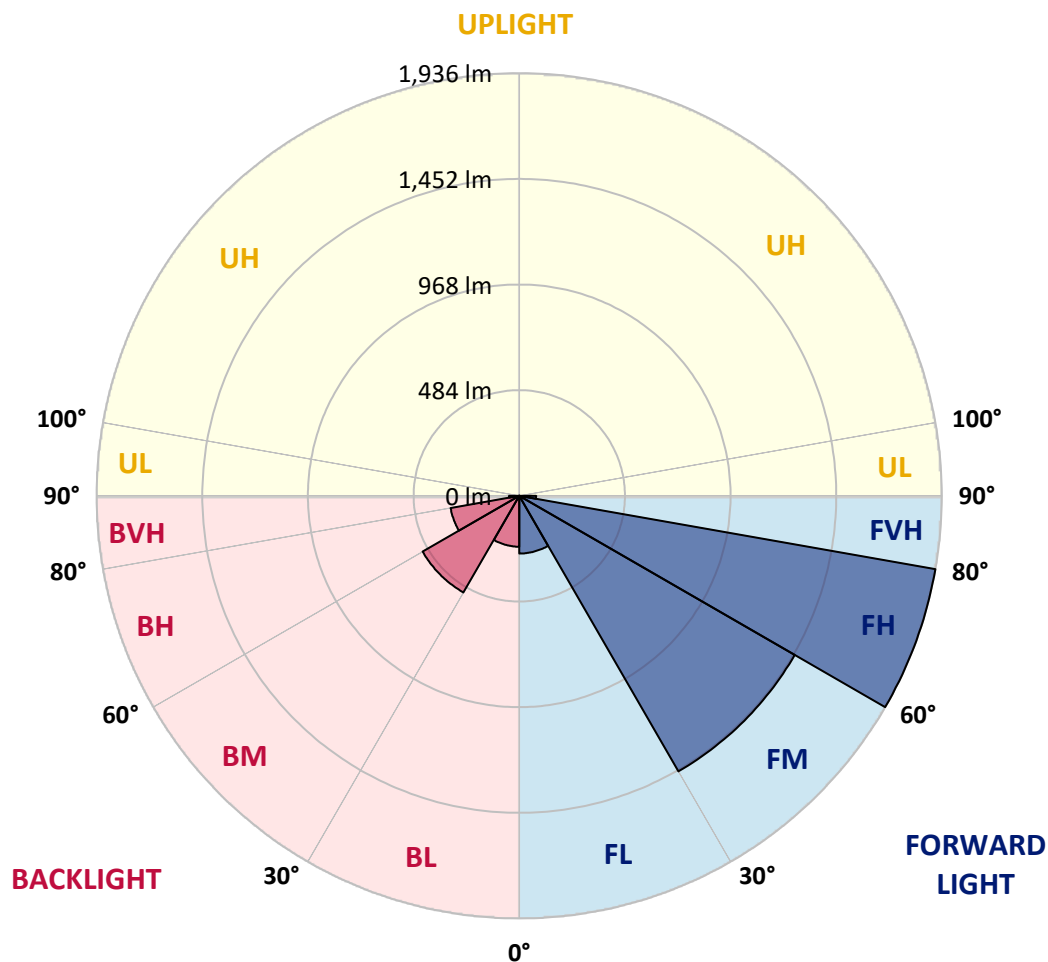
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	264.4	5.5			
FM	(30°-60°)	1457.2	30.1			
FH	(60°-80°)	1935.6	39.9			G2/5000
FVH	(80°-90°)	77.5	1.6			G1/100
BL	(0°-30°)	233.1	4.8	B1/500		
BM	(30°-60°)	511.2	10.6	B1/1000		
BH	(60°-80°)	319.2	6.6	B1/500		G1/500
BVH	(80°-90°)	46.9	1.0			G1/100
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°	35°	45°	46°	55°	65°	75°	85°
0°	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6
2.5°	518.3	518.6	519.3	517.7	513.0	511.7	511.2	506.4	503.2	498.6	494.6
5°	559.8	560.1	559.1	554.5	544.2	536.6	535.9	524.9	515.0	504.4	496.4
7.5°	603.0	603.5	600.4	591.6	577.2	563.9	563.1	548.2	533.1	517.0	505.1
10°	641.3	639.4	634.2	621.9	604.9	588.6	588.0	572.4	555.0	535.6	519.6
12.5°	666.9	665.2	658.6	643.7	624.9	610.0	608.7	594.3	577.3	556.1	537.1
15°	681.0	682.1	673.2	656.3	638.0	625.4	624.3	614.0	598.9	577.5	555.6
17.5°	682.8	683.8	675.2	658.4	643.5	634.9	634.4	627.6	616.6	596.1	573.2
20°	672.2	672.8	665.7	652.0	642.2	639.5	639.4	636.4	628.2	610.0	587.8
22.5°	656.8	657.3	652.1	642.2	638.9	643.0	644.2	643.0	637.2	620.1	599.2
25°	653.0	652.6	647.3	637.2	640.0	648.8	650.3	650.8	646.8	631.9	613.8
27.5°	671.4	670.2	660.1	643.8	645.7	656.3	658.3	663.1	660.6	647.5	630.4
30°	724.6	722.6	701.9	669.0	660.1	665.6	668.0	675.7	676.2	665.2	652.5
32.5°	814.4	812.0	774.8	716.1	684.5	675.0	677.3	688.8	694.9	686.4	672.7
35°	928.0	925.2	876.5	796.2	725.2	693.1	694.7	703.9	716.1	704.2	685.9
37.5°	1046.4	1039.6	992.7	890.4	790.1	731.7	731.7	732.9	738.7	713.8	701.5
40°	1164.1	1157.3	1114.9	1001.1	874.0	792.6	788.7	763.0	758.4	737.0	732.9
42.5°	1273.6	1271.6	1246.5	1126.3	972.5	852.4	847.1	803.5	804.5	791.2	791.4
45°	1390.0	1390.0	1369.6	1252.7	1087.2	948.6	943.3	879.1	889.1	882.9	897.7
47.5°	1485.0	1488.0	1485.1	1384.3	1220.7	1070.8	1061.2	983.9	1011.8	1032.8	1075.8
50°	1582.0	1586.6	1587.1	1528.8	1382.0	1216.0	1205.1	1123.0	1185.2	1245.6	1329.9
52.5°	1722.7	1733.2	1691.6	1672.8	1579.7	1388.5	1377.7	1301.9	1405.7	1490.4	1635.9
55°	1853.2	1844.1	1814.4	1826.0	1791.2	1584.8	1576.7	1510.2	1651.4	1761.5	1950.4
57.5°	1923.9	1923.2	1953.1	2002.8	2019.4	1826.9	1820.1	1755.4	1928.5	2011.3	2245.7
60°	2006.8	2007.9	2081.9	2194.8	2263.1	2128.3	2125.3	2076.2	2197.6	2244.4	2477.3
62.5°	2018.4	2039.3	2166.6	2360.9	2491.3	2480.5	2487.1	2365.3	2438.4	2430.4	2650.3
65°	1884.9	1912.4	2142.9	2411.2	2718.1	2865.7	2871.8	2655.9	2628.2	2589.4	2712.1
67.5°	1611.3	1652.1	1902.5	2301.9	2792.9	3150.4	3159.0	2881.2	2785.7	2643.3	2563.2
70°	1172.6	1217.9	1469.9	1966.0	2659.6	3241.4	3251.2	2980.9	2791.7	2489.9	2188.2
72.5°	708.3	743.8	951.6	1447.3	2244.7	3075.6	3093.0	2854.6	2548.8	2109.1	1615.8
75°	311.1	334.3	460.1	834.0	1607.0	2544.7	2566.4	2443.3	2070.9	1532.7	955.1
77.5°	132.5	139.1	188.7	362.3	908.5	1738.8	1768.7	1785.3	1405.1	834.0	403.6
80°	82.6	85.2	106.8	164.0	425.1	976.6	1008.8	1050.4	697.7	306.6	140.9
82.5°	50.2	53.2	71.0	99.2	221.4	442.7	458.1	487.5	270.8	132.5	73.0
85°	30.2	32.3	43.4	62.7	126.0	174.1	173.9	192.3	127.5	85.2	38.5
87.5°	14.4	16.1	23.2	32.5	63.5	65.3	61.2	69.3	77.4	55.9	19.4
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°	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6
2.5°	493.3	492.6	490.5	488.8	488.5	487.5	486.6	487.1	487.8	488.0	488.0
5°	493.1	491.3	488.5	487.3	488.8	490.8	493.3	496.6	498.6	500.1	501.1
7.5°	501.1	497.6	494.4	493.8	496.8	502.1	507.7	514.7	519.5	522.8	523.5
10°	514.3	510.0	506.9	507.5	512.8	520.5	528.4	537.4	544.7	549.2	549.5
12.5°	529.6	525.4	522.5	525.3	534.1	543.4	551.6	559.4	566.1	570.5	570.5
15°	547.2	544.2	540.7	547.2	559.1	567.4	570.9	574.7	578.3	581.7	581.0
17.5°	564.1	561.3	559.4	567.1	579.5	583.3	581.0	578.2	578.2	580.0	580.3
20°	578.7	576.2	577.3	584.8	591.3	587.3	578.7	569.7	566.1	567.1	568.1
22.5°	591.4	590.3	593.8	597.2	592.6	578.7	562.8	550.6	546.2	545.8	546.2
25°	606.4	606.2	610.5	604.2	583.6	557.9	536.6	524.8	522.3	524.3	527.6
27.5°	624.9	626.8	628.9	605.9	565.4	526.6	504.9	496.8	499.2	504.1	507.2
30°	648.6	653.6	649.0	601.7	539.2	490.8	470.1	467.7	474.5	481.3	484.7
32.5°	671.7	679.5	668.2	590.9	505.4	452.8	436.7	436.1	444.4	451.0	455.6
35°	690.3	705.7	682.6	569.6	466.3	417.8	406.1	401.6	404.6	412.4	417.7
37.5°	714.5	740.2	692.6	536.9	423.8	389.0	375.2	364.9	362.3	365.4	368.1
40°	758.7	792.7	697.2	491.3	382.4	360.1	346.2	331.1	320.7	313.0	313.2
42.5°	831.0	861.2	694.2	435.9	344.1	331.9	316.2	298.8	281.9	264.6	263.3
45°	948.4	963.0	685.3	377.2	310.4	302.4	287.7	270.3	247.7	228.2	226.3
47.5°	1136.3	1104.0	671.4	326.0	280.7	277.4	263.8	243.7	219.9	204.1	202.8
50°	1392.5	1307.4	664.6	285.2	254.5	255.5	244.4	223.2	200.6	189.0	187.7
52.5°	1698.9	1544.3	677.7	253.7	233.5	236.9	228.6	208.8	189.9	180.7	179.4
55°	2016.7	1789.7	691.8	230.8	213.6	220.4	217.5	201.1	184.0	175.6	174.4
57.5°	2288.8	1973.0	663.6	212.2	195.8	206.4	208.9	196.3	181.1	173.4	172.1
60°	2460.1	2046.7	589.6	194.8	181.7	195.3	203.9	195.0	182.2	181.6	180.6
62.5°	2541.3	2040.3	478.7	181.1	172.9	190.5	207.6	202.5	195.5	201.5	202.0
65°	2504.9	1942.8	356.5	171.9	166.6	192.3	218.5	216.5	199.3	205.3	206.1
67.5°	2264.8	1710.1	264.0	164.0	159.7	197.5	238.4	221.2	191.8	196.2	193.5
70°	1830.5	1355.8	203.6	155.0	152.5	196.8	247.4	218.4	183.7	184.7	177.6
72.5°	1262.3	924.5	165.6	146.7	142.3	179.4	241.1	211.4	176.9	169.3	159.8
75°	686.4	496.3	140.8	138.1	124.2	157.5	229.5	206.4	170.8	160.7	155.4
77.5°	270.1	205.9	122.2	126.3	108.6	139.1	216.5	197.0	162.3	149.1	146.4
80°	110.3	105.1	101.3	109.3	93.3	121.7	201.0	185.9	152.2	138.3	133.0
82.5°	62.5	65.3	78.8	86.2	75.8	112.1	193.5	176.9	140.1	123.9	117.6
85°	32.0	38.3	54.9	61.8	55.7	95.3	178.2	154.9	112.4	94.8	95.3
87.5°	15.4	21.4	34.7	38.8	36.1	69.0	133.1	112.3	87.5	69.3	67.2
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)