

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: P318665

Luminaire Tested: **GAN-SA1A-730-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4471 lumens
Efficiency: N/A
Efficacy: 131.5 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

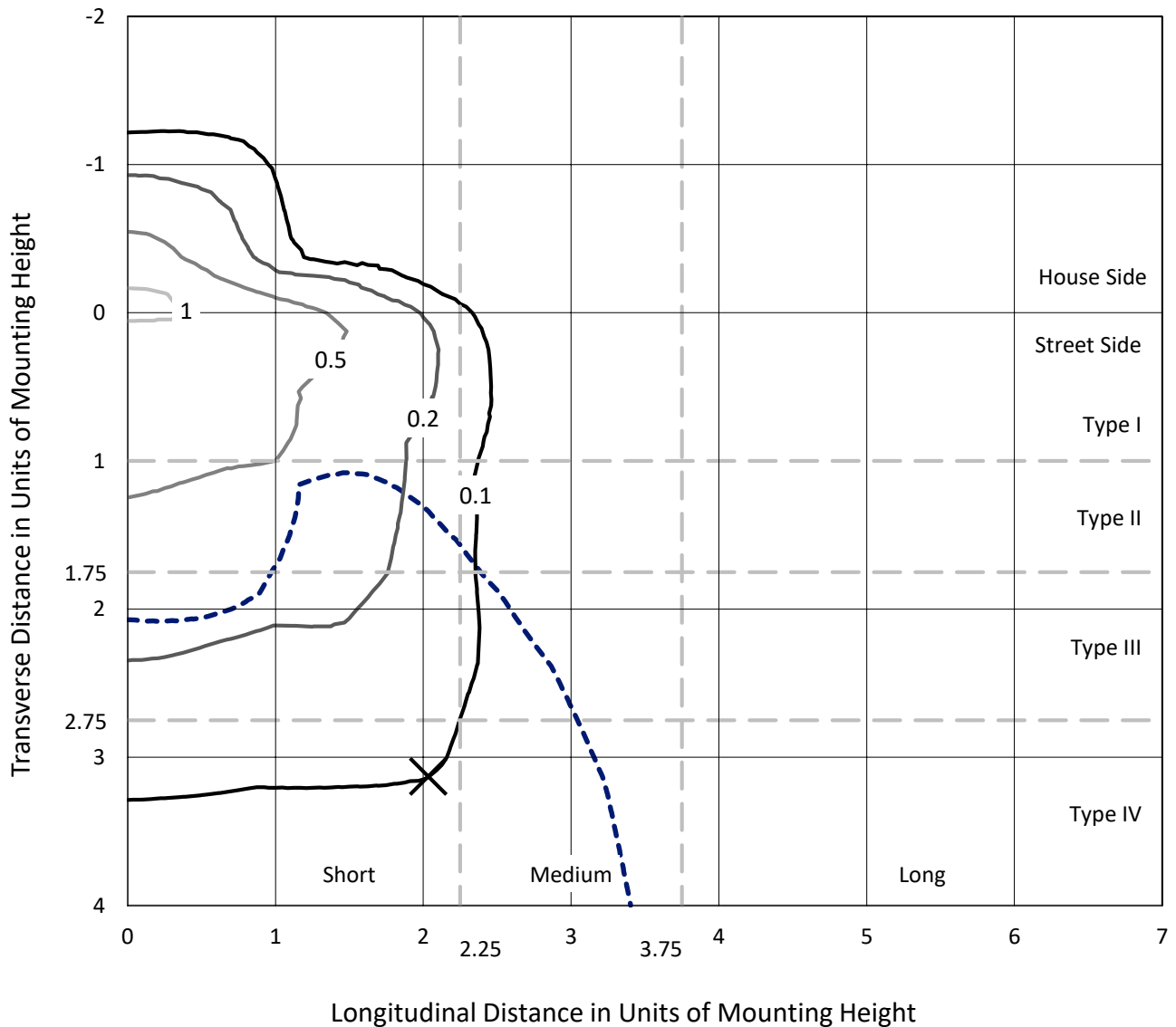
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

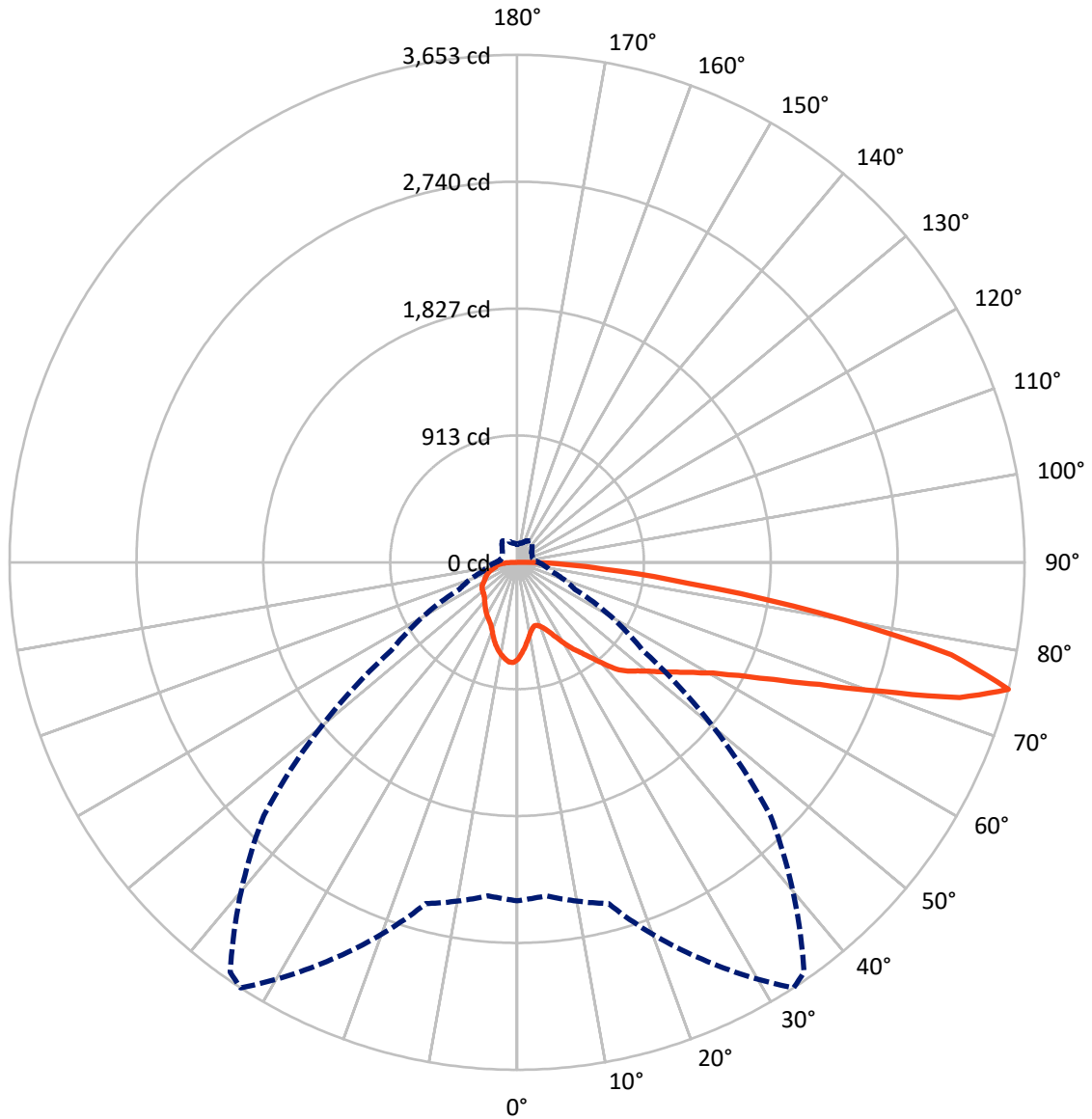
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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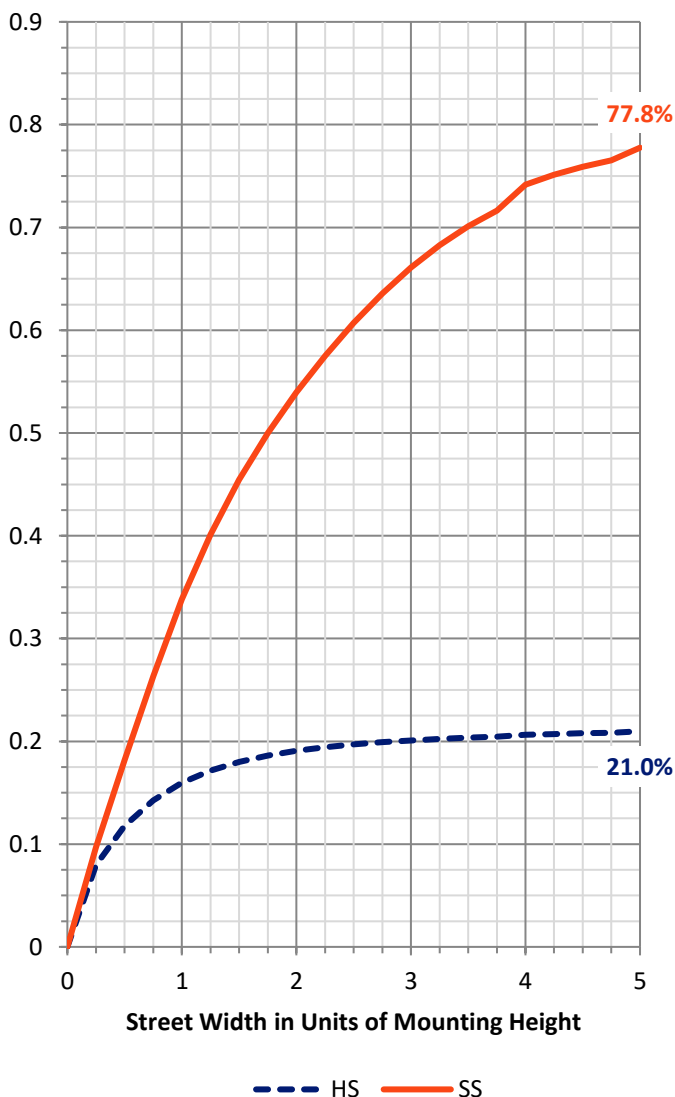
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	960.0	0.0	960.0
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	3511.0	0.0	3511.0
	% Fixture	78.5	0.0	78.5
Total	Lumens	4471.0	0.0	4471.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	1.4
10°-20°	171.2	3.8
20°-30°	279.6	6.3
30°-40°	416.3	9.3
40°-50°	597.1	13.4
50°-60°	819.8	18.3
60°-70°	1026.3	23.0
70°-80°	928.4	20.8
80°-90°	169.1	3.8
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°	4471.0	100.0
0°-180°	4471.0	100.0

Coefficient of Utilization



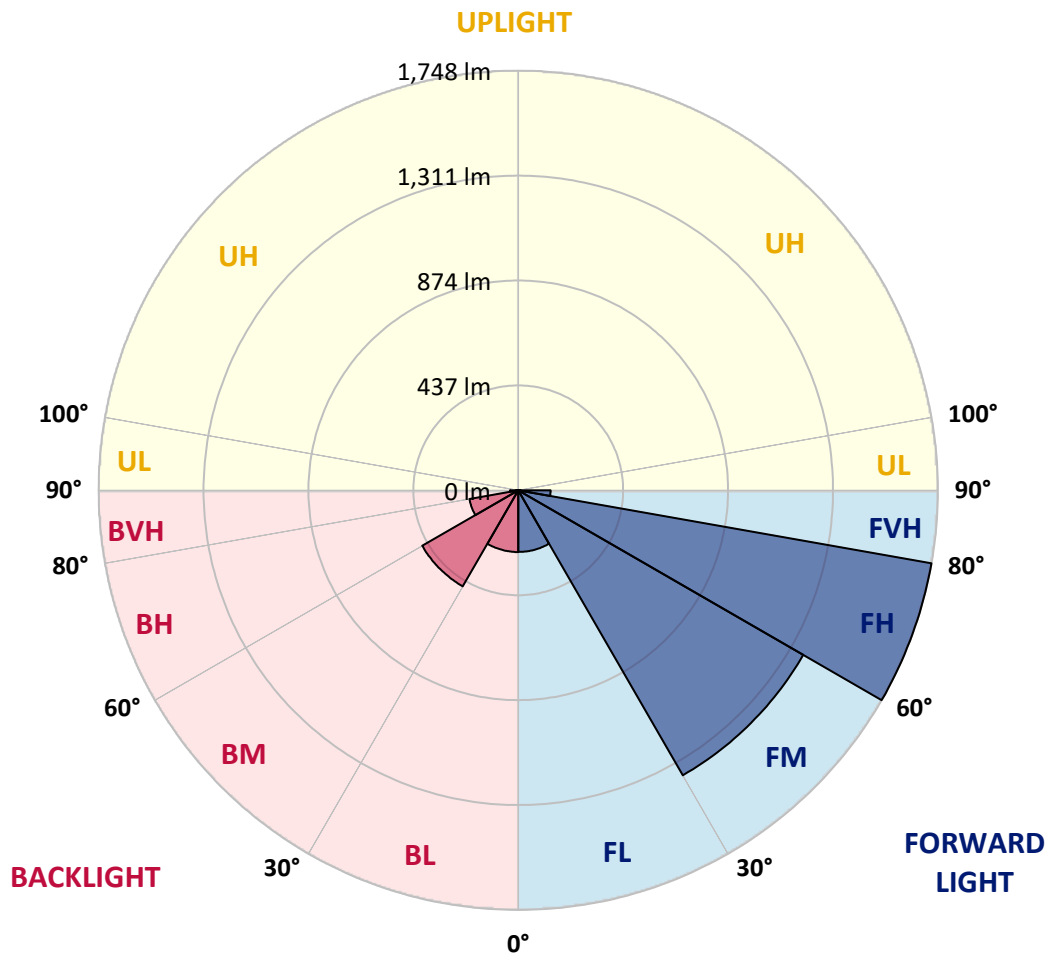
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	256.8	5.7			
FM (30°-60°)	1371.2	30.7			
FH (60°-80°)	1748.3	39.1			G1/1800
FVH (80°-90°)	134.7	3.0			G2/225
BL (0°-30°)	257.1	5.8	B1/500		
BM (30°-60°)	462.0	10.3	B1/1000		
BH (60°-80°)	206.4	4.6	B1/500		G1/500
BVH (80°-90°)	34.4	0.8			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°	33°	35°	45°	55°	65°	75°	85°
0°	698.8	698.8	698.8	698.8	698.8	698.8	698.8	698.8	698.8	698.8	698.8
2.5°	649.0	646.5	651.1	651.7	655.8	657.3	662.9	671.5	678.6	686.8	694.2
5°	590.1	588.4	594.9	599.5	608.3	612.0	625.2	643.6	659.9	678.5	695.3
7.5°	534.2	533.3	540.5	551.0	561.2	566.3	589.0	615.8	643.1	673.1	698.8
10°	487.1	486.8	493.7	504.1	519.1	524.8	554.1	589.3	627.6	668.9	704.9
12.5°	460.7	461.8	465.0	473.7	487.6	493.3	525.9	567.3	614.7	667.5	713.7
15°	467.2	468.9	463.3	463.0	472.9	477.4	508.0	551.5	605.4	669.8	726.5
17.5°	494.8	495.1	480.5	471.2	477.2	479.5	502.4	542.5	600.0	675.1	742.5
20°	533.7	533.0	507.0	491.6	494.8	495.4	510.3	542.7	599.5	684.2	763.4
22.5°	585.3	579.6	544.7	523.7	522.9	522.0	530.5	554.1	606.3	699.0	788.3
25°	652.7	647.3	599.2	570.5	564.3	562.0	563.2	578.5	619.8	714.9	816.1
27.5°	727.6	718.1	671.8	631.2	618.4	615.1	607.7	613.0	634.4	730.2	849.1
30°	790.3	785.2	744.7	696.5	681.4	676.8	657.3	651.6	655.6	751.0	890.8
32.5°	825.3	821.9	797.4	758.5	744.4	737.9	710.4	699.0	689.6	783.9	947.3
35°	867.8	865.6	850.8	822.5	801.7	794.9	773.6	761.7	737.5	829.2	1020.4
37.5°	921.9	919.5	919.8	897.0	872.1	865.8	851.7	839.2	799.5	888.6	1099.8
40°	983.0	978.5	976.8	975.8	960.0	956.4	949.0	932.0	877.4	959.7	1178.1
42.5°	1075.1	1059.2	1025.2	1038.0	1053.6	1051.7	1057.8	1033.4	963.9	1043.7	1254.5
45°	1163.9	1137.8	1079.1	1081.9	1116.0	1126.3	1171.4	1154.1	1057.6	1135.8	1333.6
47.5°	1204.3	1184.6	1134.7	1134.8	1168.6	1190.1	1289.0	1276.6	1156.1	1240.3	1430.1
50°	1249.6	1229.8	1185.0	1201.9	1231.4	1254.2	1402.5	1396.1	1249.9	1354.8	1545.8
52.5°	1299.0	1265.5	1237.1	1267.2	1308.6	1335.1	1516.1	1498.8	1335.9	1470.0	1678.8
55°	1299.6	1290.5	1312.1	1334.2	1396.1	1428.7	1635.2	1589.5	1406.0	1583.2	1787.0
57.5°	1373.6	1358.8	1404.6	1414.8	1495.8	1532.5	1753.7	1668.4	1477.4	1670.0	1845.4
60°	1471.5	1458.8	1496.4	1523.2	1619.0	1668.1	1880.2	1749.5	1533.4	1735.4	1842.6
62.5°	1640.6	1626.3	1625.8	1663.5	1792.4	1849.6	2022.1	1829.0	1555.7	1748.4	1764.0
65°	1888.2	1865.3	1822.2	1840.2	2032.0	2089.0	2180.7	1886.6	1526.3	1678.9	1561.5
67.5°	2129.1	2128.3	2075.4	2112.1	2348.3	2394.0	2361.4	1892.4	1434.8	1436.9	1202.3
70°	2369.3	2372.4	2363.4	2491.3	2775.6	2823.2	2553.8	1815.6	1228.9	1037.7	720.3
72.5°	2559.5	2558.8	2603.9	2933.6	3330.2	3319.5	2716.0	1583.0	882.3	560.2	344.2
75°	2436.3	2409.4	2543.8	3152.6	3653.4	3601.4	2578.1	1104.2	457.9	255.0	185.3
77.5°	1589.0	1614.5	1811.7	2604.3	3195.7	3132.4	1891.4	515.2	215.8	167.3	134.4
80°	575.4	602.3	848.3	1475.2	2201.7	2191.4	931.4	211.7	145.9	126.3	97.9
82.5°	198.0	207.9	334.7	655.1	1243.1	1289.4	350.4	120.3	106.1	89.6	67.0
85°	77.7	89.0	153.1	315.2	627.0	631.7	141.9	72.0	73.8	58.7	36.8
87.5°	29.5	35.8	73.2	146.4	286.3	263.0	50.8	34.3	42.0	34.9	17.5
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°	698.8	698.8	698.8	698.8	698.8	698.8	698.8	698.8	698.8	698.8	698.8
2.5°	699.9	703.2	710.0	714.6	719.5	720.9	721.5	722.8	724.0	723.6	723.7
5°	704.2	710.6	721.5	726.2	728.3	725.9	721.1	717.2	714.4	712.9	712.4
7.5°	711.4	720.3	732.0	731.3	726.3	715.4	703.0	693.7	686.0	683.2	681.7
10°	720.8	731.3	739.5	730.7	716.3	697.3	678.8	664.4	652.8	648.3	647.6
12.5°	732.8	743.5	745.0	726.3	702.5	676.6	651.4	632.4	615.1	609.6	608.3
15°	748.4	758.5	748.9	718.8	685.6	650.7	618.1	592.3	574.1	567.3	564.8
17.5°	764.8	774.4	749.7	706.3	663.3	619.9	579.0	552.6	531.7	523.9	522.9
20°	784.4	788.7	746.4	688.3	632.7	580.1	537.0	512.1	501.0	495.4	494.8
22.5°	808.6	804.0	739.0	664.1	594.0	534.1	499.0	487.4	484.6	483.4	483.9
25°	834.3	820.1	728.0	632.4	545.0	488.0	471.2	474.4	478.1	477.7	477.7
27.5°	862.5	836.4	711.2	590.4	490.8	450.3	452.4	464.2	469.8	469.7	469.5
30°	898.8	855.0	689.7	539.9	440.2	423.8	436.0	450.5	458.1	457.8	457.9
32.5°	943.5	875.4	660.5	483.6	403.6	404.2	418.2	432.6	441.4	440.6	440.8
35°	995.7	898.2	621.0	428.0	379.3	388.6	399.7	409.7	418.1	417.0	415.9
37.5°	1052.5	920.6	568.5	378.2	359.5	374.1	383.3	385.0	388.9	386.1	384.1
40°	1106.6	937.8	500.8	337.5	339.6	361.7	367.7	360.9	354.0	353.1	350.3
42.5°	1153.7	943.5	432.4	304.9	318.6	348.7	352.4	338.2	325.7	319.8	317.4
45°	1203.4	945.5	368.6	277.5	298.4	337.1	341.2	322.2	304.6	291.9	287.7
47.5°	1268.4	960.0	319.1	257.3	282.9	329.4	335.1	309.3	286.5	268.4	264.6
50°	1353.5	988.7	278.8	241.9	272.9	324.3	330.8	296.8	271.7	249.9	246.0
52.5°	1448.0	1015.1	246.2	229.3	263.2	315.4	325.3	287.9	257.8	232.7	228.6
55°	1514.1	994.9	219.9	216.4	250.5	302.5	317.5	280.3	237.8	216.1	212.4
57.5°	1526.8	925.7	200.0	202.9	235.2	286.5	305.6	263.5	227.0	208.8	204.9
60°	1492.2	829.3	185.2	190.6	218.8	266.3	283.4	251.6	216.7	201.1	197.8
62.5°	1405.3	730.7	174.2	179.5	203.6	245.7	269.5	239.1	206.2	192.3	189.0
65°	1229.7	613.4	163.7	169.6	189.3	228.0	257.0	227.5	195.8	185.2	182.1
67.5°	928.2	459.5	153.8	159.1	176.7	212.5	243.4	216.1	185.8	179.0	175.3
70°	546.6	287.7	142.5	148.1	163.4	196.4	228.9	203.6	173.3	170.2	165.4
72.5°	254.4	173.1	129.7	135.1	146.7	175.0	210.2	187.2	158.5	151.7	145.2
75°	151.8	126.6	114.6	119.4	127.6	152.1	186.7	170.5	144.4	135.4	128.6
77.5°	113.5	96.8	97.9	103.0	109.7	133.1	165.4	157.4	133.6	126.6	122.0
80°	81.7	73.5	79.8	85.4	92.4	121.1	158.5	145.5	120.8	111.5	107.2
82.5°	54.5	52.8	60.1	65.8	72.6	105.9	148.9	127.4	103.2	91.4	81.9
85°	30.1	31.8	40.5	42.9	48.8	74.6	122.0	102.4	77.7	62.5	59.8
87.5°	12.5	14.7	21.8	21.0	25.9	44.5	80.3	61.8	49.4	36.9	28.7
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)