

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: P319946

Luminaire Tested: **GAN-SA2A-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8251 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

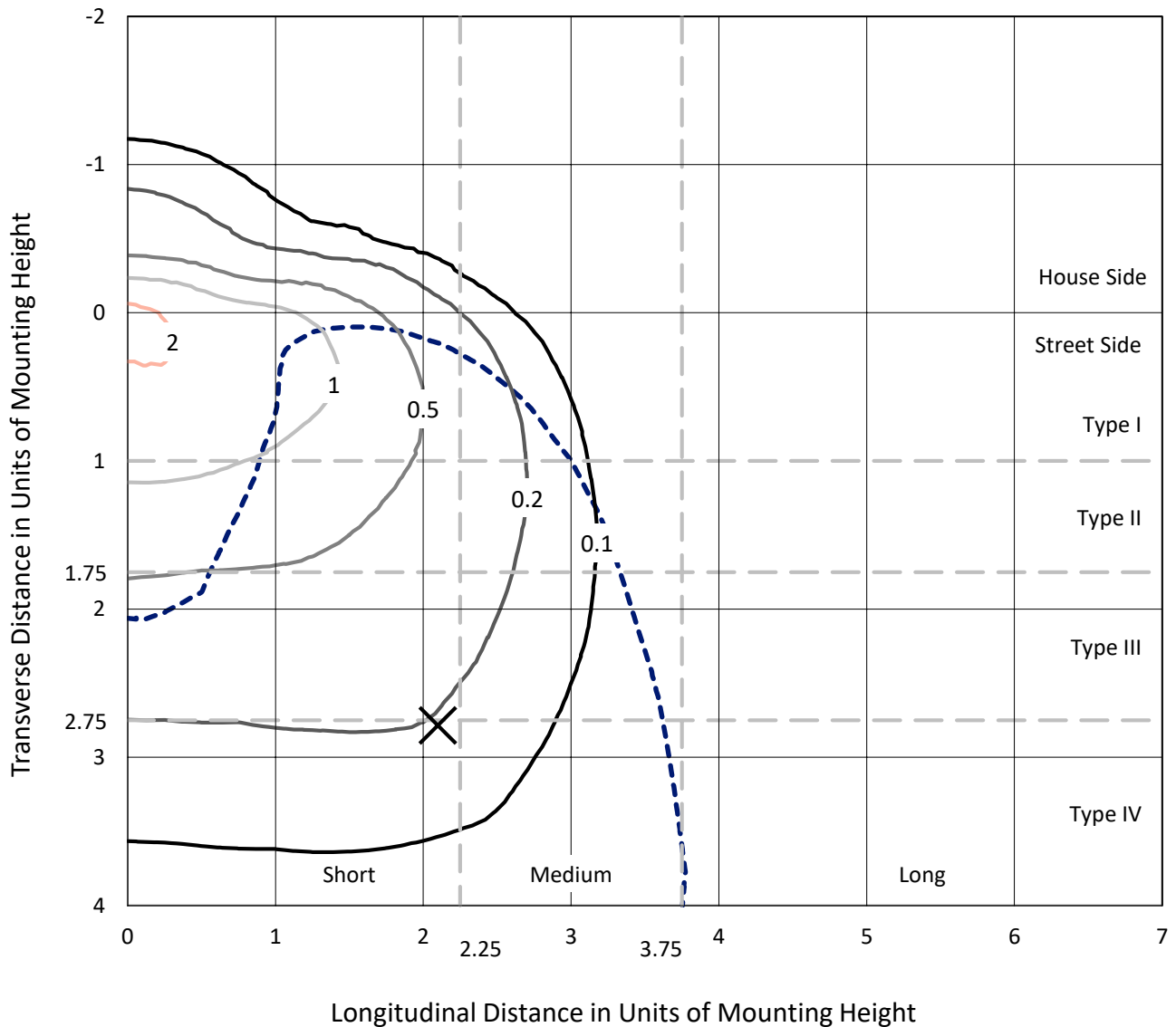
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

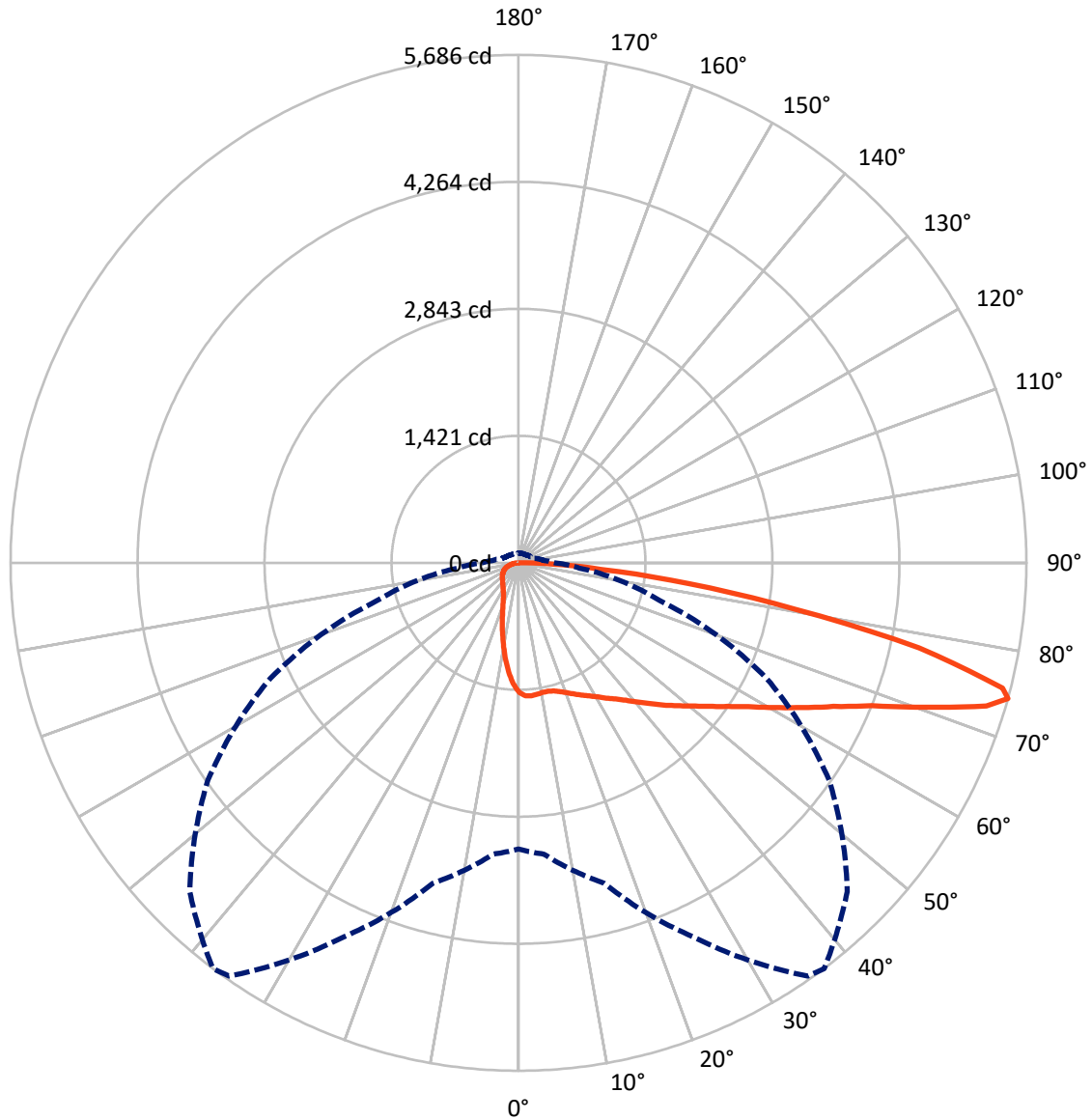
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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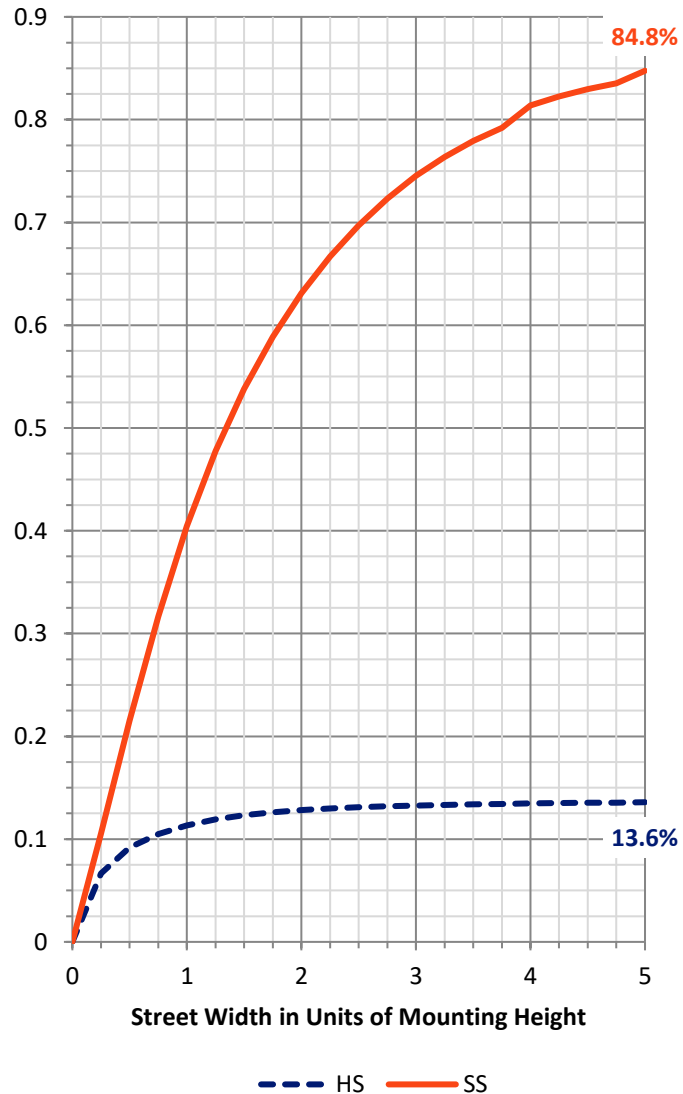
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1135.3	0.0	1135.3
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	7115.7	0.0	7115.7
	% Fixture	86.2	0.0	86.2
Total	Lumens	8251.0	0.0	8251.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	1.6
10°-20°	328.2	4.0
20°-30°	505.6	6.1
30°-40°	735.3	8.9
40°-50°	1082.2	13.1
50°-60°	1519.7	18.4
60°-70°	1923.5	23.3
70°-80°	1693.7	20.5
80°-90°	334.9	4.1
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°	8251.0	100.0
0°-180°	8251.0	100.0

Coefficient of Utilization

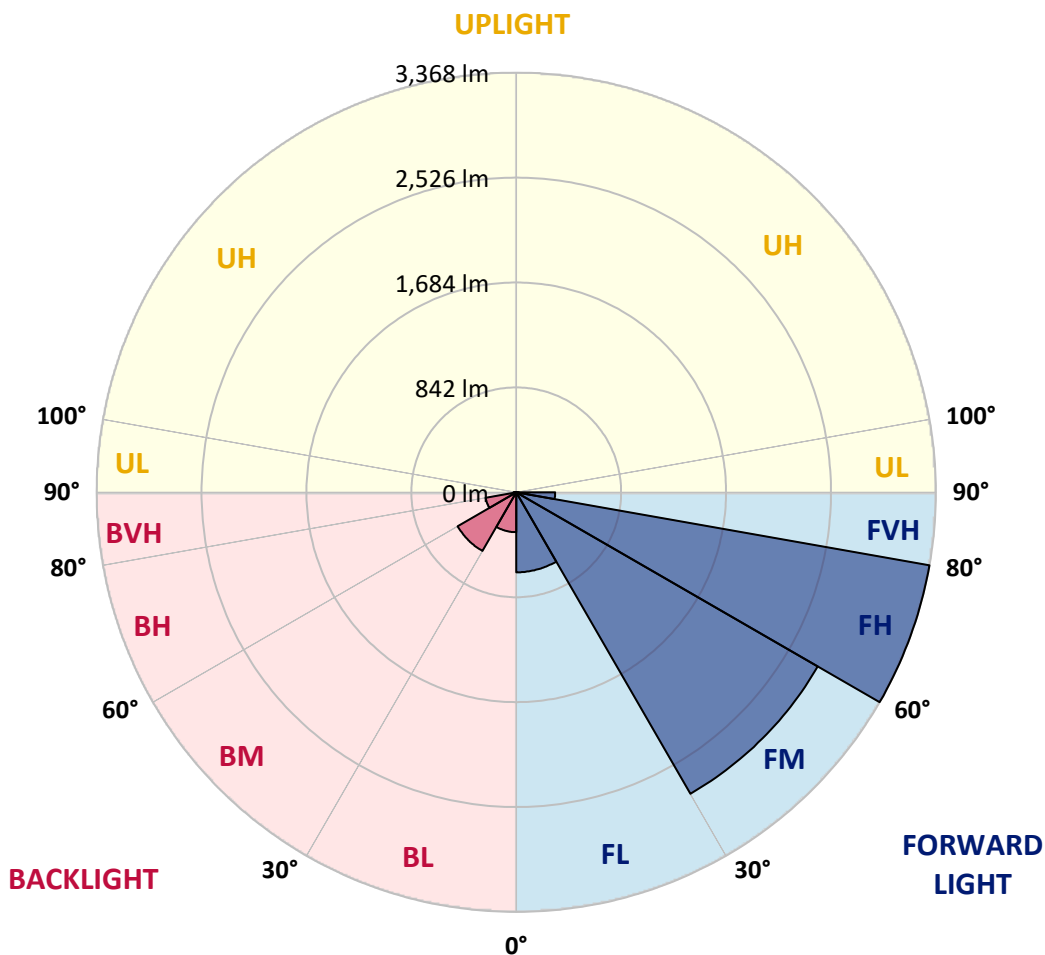


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	642.0	7.8			
FM (30°-60°)	2793.9	33.9			
FH (60°-80°)	3367.6	40.8			G2/5000
FVH (80°-90°)	312.2	3.8			G3/500
BL (0°-30°)	319.8	3.9	B1/500		
BM (30°-60°)	543.3	6.6	B1/1000		
BH (60°-80°)	249.5	3.0	B1/500		G1/500
BVH (80°-90°)	22.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8
2.5°	1503.5	1503.8	1503.5	1501.2	1495.6	1491.0	1487.2	1481.7	1469.5	1460.2	1446.2
5°	1517.7	1516.0	1514.8	1510.5	1501.8	1496.5	1489.3	1478.8	1458.7	1440.1	1417.5
7.5°	1511.1	1509.0	1506.4	1501.2	1491.3	1486.9	1476.8	1463.1	1439.0	1414.6	1382.0
10°	1490.4	1489.8	1488.7	1487.5	1479.1	1475.6	1466.3	1451.8	1427.9	1398.3	1360.2
12.5°	1467.5	1468.9	1473.6	1479.7	1475.9	1474.1	1468.3	1458.4	1434.0	1402.1	1356.1
15°	1452.9	1457.0	1469.5	1485.5	1488.7	1488.1	1486.6	1480.2	1454.4	1418.9	1365.4
17.5°	1448.0	1454.7	1478.5	1504.9	1514.2	1516.3	1516.9	1505.8	1477.0	1439.6	1375.0
20°	1457.0	1465.4	1500.3	1536.6	1551.5	1552.6	1550.0	1530.8	1498.6	1457.3	1380.3
22.5°	1484.3	1491.9	1535.5	1576.4	1593.3	1595.0	1587.2	1558.1	1521.2	1478.2	1387.5
25°	1536.9	1546.2	1589.8	1630.8	1639.5	1639.8	1628.5	1592.4	1550.9	1507.6	1403.2
27.5°	1605.5	1614.8	1654.0	1694.2	1689.5	1686.9	1671.5	1635.4	1589.5	1548.0	1431.1
30°	1681.9	1692.1	1729.3	1757.8	1746.8	1741.5	1729.0	1682.5	1643.3	1603.2	1473.8
32.5°	1761.0	1770.3	1802.9	1822.3	1808.4	1806.1	1787.2	1744.7	1713.3	1687.5	1543.0
35°	1842.1	1848.8	1880.7	1891.8	1873.2	1872.6	1867.4	1828.4	1808.7	1820.9	1643.6
37.5°	1924.9	1926.7	1954.0	1954.6	1949.0	1951.4	1956.9	1932.5	1938.0	1976.1	1774.4
40°	1998.7	2003.4	2023.2	2029.3	2038.9	2047.0	2074.6	2058.6	2101.3	2168.8	1937.1
42.5°	2053.4	2062.4	2094.1	2109.8	2140.9	2153.7	2192.6	2207.4	2293.5	2394.6	2130.7
45°	2099.6	2113.6	2164.4	2196.7	2249.3	2271.7	2327.5	2377.2	2510.6	2639.6	2334.4
47.5°	2149.6	2167.3	2231.0	2292.6	2364.1	2389.4	2490.8	2565.2	2742.2	2886.1	2526.6
50°	2223.1	2236.8	2299.0	2395.8	2485.0	2517.5	2657.9	2764.6	2977.6	3120.9	2693.1
52.5°	2325.7	2320.5	2373.1	2508.8	2628.6	2668.7	2836.4	2976.8	3216.3	3333.4	2833.8
55°	2428.9	2420.2	2457.1	2627.1	2796.0	2838.1	3032.9	3189.8	3443.2	3524.6	2941.6
57.5°	2543.7	2527.1	2558.2	2760.5	2986.6	3036.9	3252.9	3416.2	3666.5	3679.2	3010.2
60°	2662.0	2639.6	2674.5	2925.9	3228.7	3288.0	3510.4	3637.1	3876.9	3803.1	3032.3
62.5°	2765.5	2749.8	2803.5	3110.5	3501.7	3566.8	3763.2	3871.9	4084.4	3854.5	2952.6
65°	2855.9	2858.5	2951.5	3318.0	3806.0	3875.4	4053.3	4161.4	4247.7	3824.0	2766.3
67.5°	2963.7	2978.5	3137.2	3591.2	4189.0	4265.2	4475.3	4477.1	4339.0	3644.9	2399.5
70°	3120.9	3151.4	3392.7	3970.2	4733.7	4838.3	5000.5	4662.5	4210.8	3159.6	1888.0
72.5°	3260.4	3317.4	3664.4	4403.8	5397.5	5476.9	5307.7	4555.5	3675.2	2367.9	1176.2
74°	3203.8	3274.4	3713.8	4617.4	5647.5	5685.6	5204.0	4243.4	3064.2	1639.8	683.6
75°	3081.7	3158.4	3641.8	4615.4	5615.8	5594.6	4953.4	3886.8	2523.6	1118.4	454.9
77.5°	2487.0	2568.1	3068.6	3955.6	4604.7	4584.6	3805.1	2607.4	1105.3	366.8	231.1
80°	1445.9	1507.9	1904.9	2512.0	3104.9	3141.3	2502.4	1290.2	434.8	206.1	156.7
82.5°	642.3	685.0	920.2	1282.3	1873.8	1920.6	1310.5	676.0	268.6	125.3	94.2
85°	421.4	453.1	558.6	610.6	892.3	924.2	641.4	526.4	177.3	68.9	69.2
87.5°	303.1	333.7	415.0	362.4	409.5	387.7	349.1	487.1	71.2	39.2	23.3
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°	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8
2.5°	1440.1	1435.5	1425.0	1405.3	1394.2	1384.9	1369.5	1360.5	1356.4	1356.1	1357.9
5°	1404.4	1393.6	1366.6	1333.5	1307.0	1282.9	1253.0	1234.9	1222.2	1214.6	1216.6
7.5°	1362.8	1346.0	1303.5	1250.6	1208.2	1161.4	1115.2	1087.6	1066.1	1050.1	1053.0
10°	1334.3	1311.1	1249.2	1173.0	1102.4	1034.4	970.7	932.7	902.4	879.2	880.9
12.5°	1324.7	1293.4	1207.6	1105.9	1006.8	913.8	830.7	772.2	741.1	714.7	716.7
15°	1326.2	1284.1	1172.7	1045.4	920.8	803.6	702.8	634.5	592.3	574.0	574.3
17.5°	1327.4	1273.3	1136.1	980.6	835.6	700.7	591.2	522.0	482.2	465.3	465.6
20°	1323.6	1255.9	1090.8	906.2	746.7	606.3	500.2	441.5	411.3	398.2	398.2
22.5°	1318.6	1235.2	1039.6	831.5	658.9	524.3	435.1	390.3	372.9	364.2	363.9
25°	1321.0	1219.8	987.3	754.8	578.1	458.9	391.8	362.1	350.5	345.0	344.7
27.5°	1333.5	1212.6	939.1	678.4	507.5	409.8	362.7	341.8	334.2	330.8	330.8
30°	1356.1	1212.6	888.8	613.3	448.8	373.5	340.3	326.1	320.9	318.5	318.5
32.5°	1395.7	1219.2	840.2	548.7	402.0	345.0	321.7	312.2	308.1	306.9	306.9
35°	1463.7	1241.9	792.9	487.7	364.2	321.7	304.0	298.5	295.6	295.3	296.2
37.5°	1559.3	1288.1	748.4	442.6	337.4	302.8	289.2	284.8	283.1	284.5	285.7
40°	1679.6	1350.9	708.0	402.0	317.1	287.7	275.5	272.6	271.8	273.8	275.5
42.5°	1824.9	1435.8	674.9	372.6	301.4	274.9	263.9	260.4	259.5	261.9	264.2
45°	1982.2	1527.0	651.6	350.8	289.2	265.4	253.7	250.0	248.2	249.4	252.0
47.5°	2125.2	1613.4	642.3	335.4	277.6	257.2	244.7	240.1	237.2	236.6	238.6
50°	2245.8	1677.6	646.7	326.1	268.3	248.2	236.0	230.8	226.4	223.8	225.2
52.5°	2333.6	1718.0	650.7	322.0	261.0	238.3	226.4	221.5	215.7	211.3	211.3
55°	2397.2	1727.3	641.7	318.8	255.5	227.6	215.7	211.0	205.2	200.3	199.7
57.5°	2422.2	1701.1	608.3	314.2	251.7	217.4	204.3	200.8	195.9	190.1	189.8
60°	2388.5	1620.3	543.8	304.3	246.8	209.0	193.0	190.7	188.3	182.8	182.5
62.5°	2253.1	1443.0	460.4	284.2	236.9	200.0	182.5	183.7	184.0	180.2	179.6
65°	2007.5	1199.5	379.0	258.1	222.1	189.2	171.8	177.3	180.5	179.9	179.0
67.5°	1650.6	933.5	321.2	230.5	202.6	174.4	160.1	166.5	169.2	171.2	170.6
70°	1225.1	658.3	265.6	201.4	179.0	156.9	145.0	148.2	146.5	148.8	149.7
72.5°	683.0	395.0	216.5	172.4	154.6	136.6	128.2	127.6	123.8	123.8	123.8
74°	409.8	289.8	190.4	154.3	139.8	123.2	116.0	113.4	109.9	110.2	109.9
75°	329.6	249.1	174.7	142.4	129.3	115.4	108.1	104.6	102.0	102.0	101.7
77.5°	208.1	189.2	140.7	113.4	103.5	95.0	90.1	85.4	85.4	85.2	84.9
80°	157.2	150.6	109.6	85.7	79.3	73.0	69.8	67.7	67.7	68.6	68.3
82.5°	107.8	113.4	77.0	59.9	56.7	52.0	51.4	51.7	50.9	49.7	49.4
85°	78.8	85.2	52.0	37.8	34.6	31.7	34.0	35.2	33.7	31.1	29.9
87.5°	30.2	55.8	27.9	15.7	14.5	12.5	14.5	15.1	16.3	12.8	13.1
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)