

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: P317706

Luminaire Tested: **GAN-SA2A-730-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8879 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

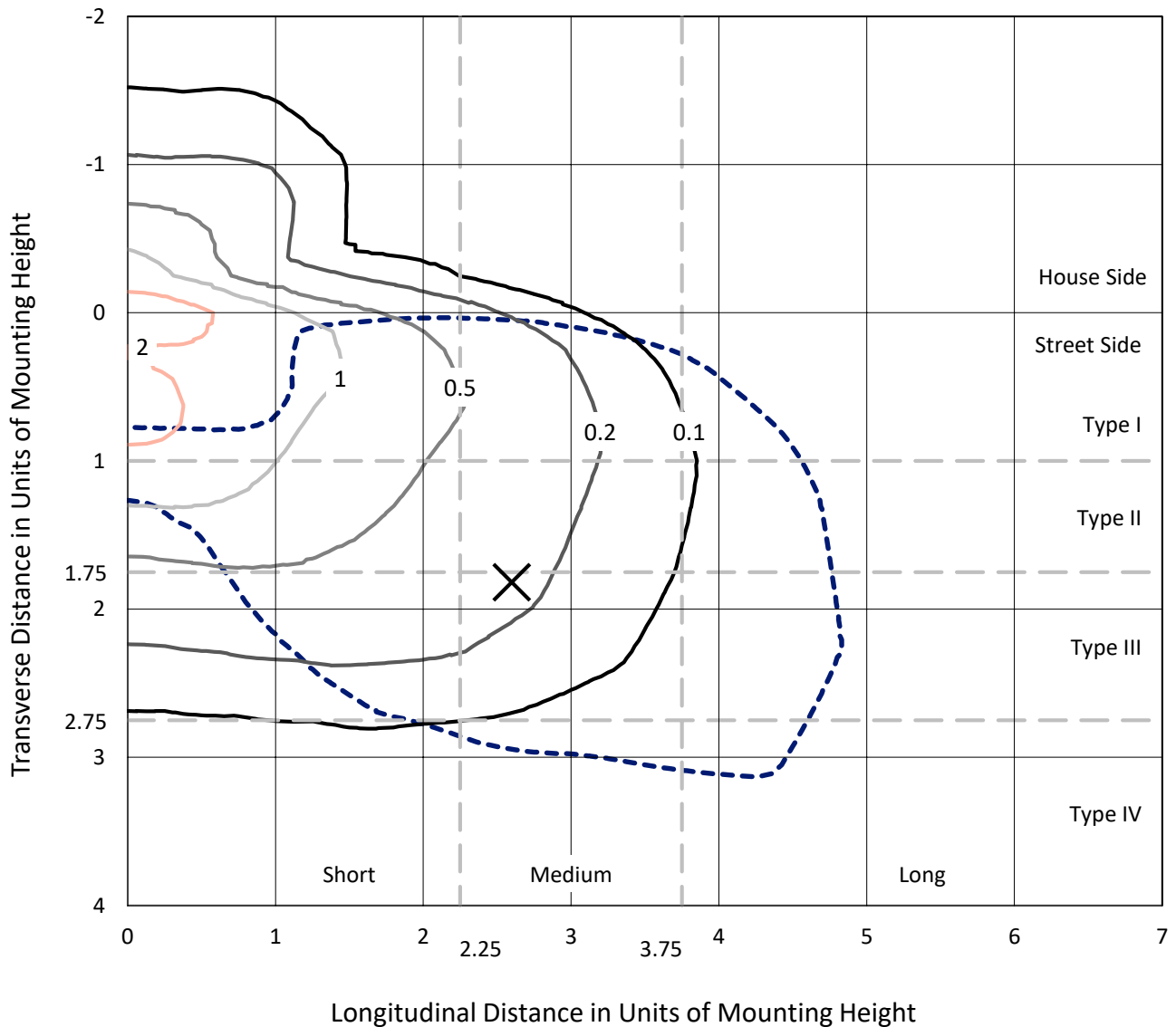
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

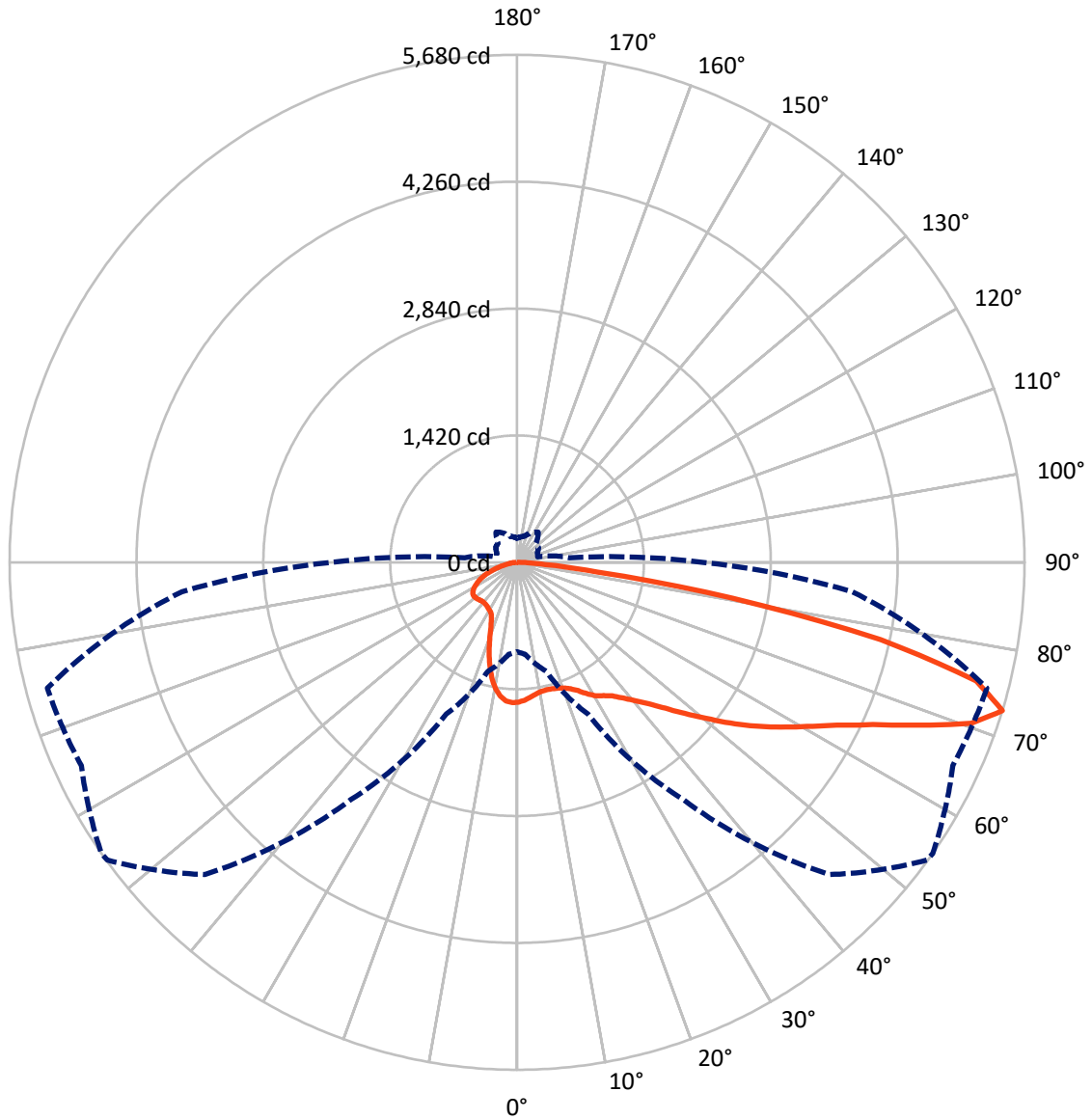
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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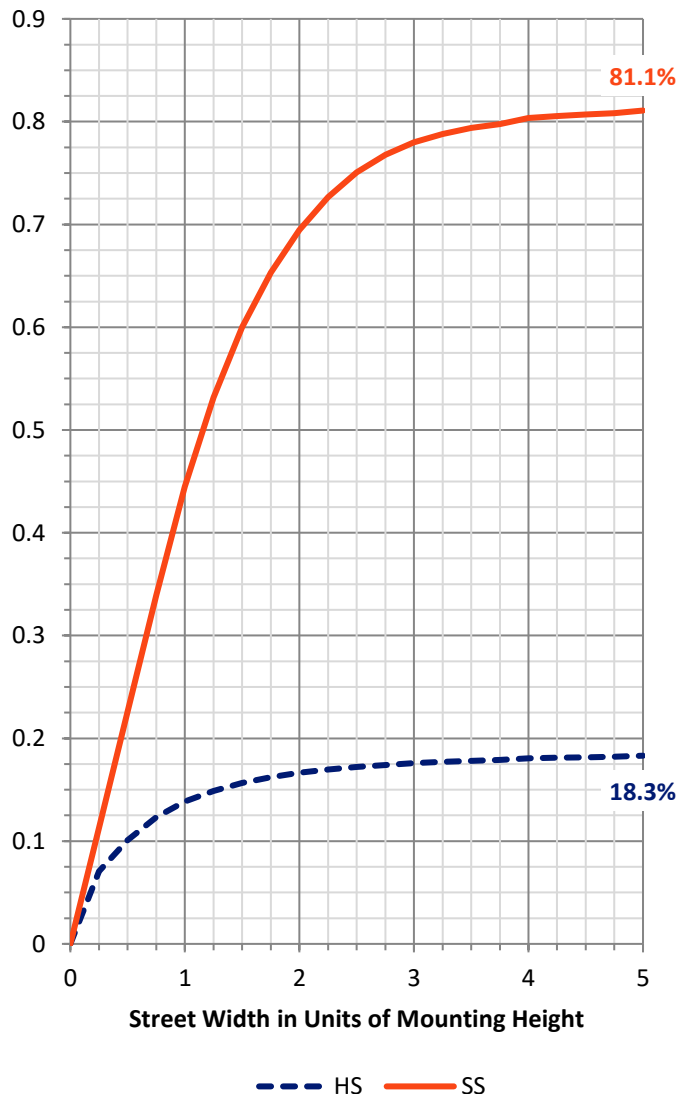
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1650.3	0.0	1650.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	7228.7	0.0	7228.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	8879.0	0.0	8879.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.7	1.6
10°-20°	377.3	4.2
20°-30°	622.0	7.0
30°-40°	920.2	10.4
40°-50°	1284.4	14.5
50°-60°	1672.3	18.8
60°-70°	2055.2	23.1
70°-80°	1611.0	18.1
80°-90°	195.0	2.2
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°	8879.0	100.0
0°-180°	8879.0	100.0

Coefficient of Utilization

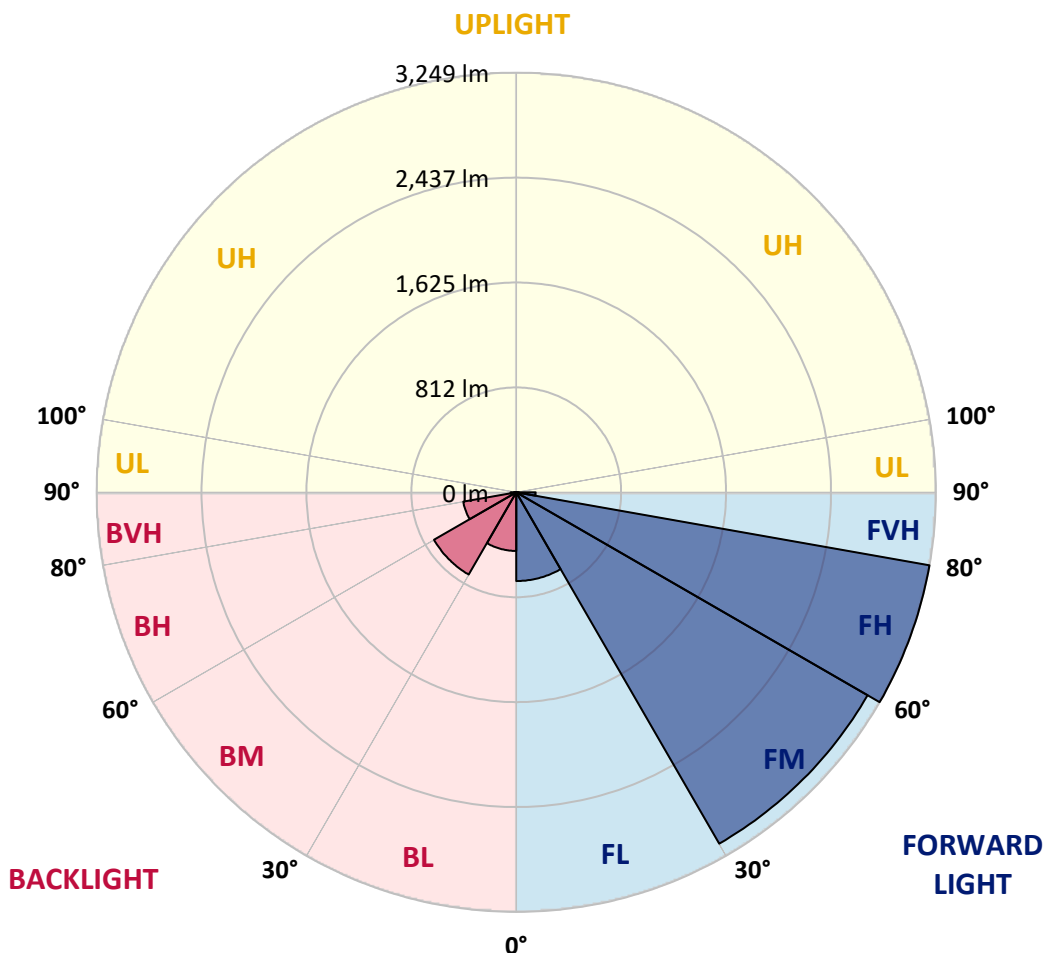


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	687.0	7.7			
FM (30°-60°)	3141.6	35.4			
FH (60°-80°)	3249.4	36.6			G2/5000
FVH (80°-90°)	150.7	1.7			G2/225
BL (0°-30°)	454.1	5.1	B1/500		
BM (30°-60°)	735.2	8.3	B1/1000		
BH (60°-80°)	416.8	4.7	B1/500		G1/500
BVH (80°-90°)	44.2	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1566.1	1566.1	1566.1	1566.1	1566.1	1566.1	1566.1	1566.1	1566.1	1566.1	1566.1
2.5°	1515.1	1511.5	1516.0	1522.3	1529.2	1538.5	1543.9	1546.3	1555.6	1559.2	1567.0
5°	1444.9	1443.1	1450.6	1461.4	1476.7	1498.3	1515.7	1519.0	1543.6	1561.0	1576.9
7.5°	1393.9	1393.9	1402.6	1415.5	1432.6	1461.7	1486.3	1490.8	1532.5	1570.0	1599.4
10°	1353.4	1354.9	1365.1	1380.4	1400.5	1431.4	1464.1	1469.2	1529.5	1591.0	1637.7
12.5°	1326.4	1330.0	1339.3	1353.1	1378.0	1415.5	1456.9	1463.8	1535.8	1620.9	1683.9
15°	1343.5	1349.5	1350.4	1356.1	1369.9	1410.7	1461.1	1468.3	1549.3	1651.5	1736.4
17.5°	1418.5	1420.6	1411.3	1399.3	1392.7	1418.8	1473.7	1481.2	1565.5	1681.8	1786.8
20°	1532.5	1531.3	1511.2	1478.8	1445.2	1449.4	1494.4	1502.2	1587.4	1708.5	1837.2
22.5°	1676.4	1672.2	1641.3	1581.7	1524.4	1500.4	1530.7	1537.3	1620.3	1746.6	1891.2
25°	1851.0	1841.7	1800.9	1720.8	1636.5	1574.8	1585.3	1591.6	1668.3	1789.2	1940.6
27.5°	2035.1	2025.8	1973.9	1877.1	1764.9	1668.6	1660.5	1665.9	1722.9	1820.7	1977.2
30°	2227.6	2217.7	2170.4	2061.8	1901.1	1765.8	1730.7	1732.8	1761.3	1837.8	2007.2
32.5°	2421.1	2411.8	2358.7	2232.7	2048.9	1870.2	1781.4	1778.7	1784.4	1855.5	2041.1
35°	2617.2	2620.8	2558.7	2419.3	2212.6	1986.2	1841.4	1835.7	1823.1	1891.8	2089.1
37.5°	2827.1	2824.7	2744.4	2598.6	2383.9	2112.2	1927.4	1926.5	1883.1	1960.4	2164.4
40°	2967.5	2969.0	2920.1	2782.1	2556.9	2251.6	2037.8	2035.7	1978.7	2063.3	2263.0
42.5°	3022.4	3032.3	3044.9	2957.3	2738.1	2413.3	2169.5	2166.5	2112.2	2210.8	2379.1
45°	3026.3	3046.1	3124.0	3112.9	2921.6	2598.3	2337.7	2329.3	2290.3	2407.0	2517.6
47.5°	2992.7	3013.1	3142.6	3205.6	3085.6	2793.5	2534.4	2527.8	2494.2	2652.3	2667.6
50°	2919.2	2938.7	3104.2	3250.9	3220.6	2981.3	2761.2	2743.8	2725.8	2935.7	2839.1
52.5°	2781.5	2819.0	3053.0	3261.7	3301.3	3148.0	2999.6	2988.2	2998.1	3234.7	3011.0
55°	2455.6	2497.5	2920.7	3252.7	3361.0	3288.1	3238.0	3237.4	3288.7	3548.4	3195.4
57.5°	2272.9	2302.6	2651.4	3237.4	3431.7	3427.2	3474.0	3479.7	3579.6	3890.0	3388.5
60°	2169.8	2200.9	2514.9	3180.7	3541.5	3607.2	3714.8	3726.2	3875.3	4268.1	3621.0
62.5°	2075.9	2110.1	2430.4	3065.3	3670.7	3864.5	4003.3	4013.5	4188.4	4656.8	3845.6
65°	1915.4	1954.1	2306.5	2989.4	3788.3	4200.1	4370.1	4377.0	4547.9	5064.1	4017.4
67.5°	1688.7	1724.1	2072.9	2821.7	3875.3	4607.6	4857.7	4861.6	4904.5	5351.7	4105.3
70°	1423.9	1437.4	1740.0	2475.7	3772.4	4988.8	5392.2	5393.1	5229.6	5535.8	4090.9
72.5°	1000.5	1032.2	1263.2	1874.1	3241.9	4942.3	5669.6	5679.8	5380.8	5442.8	3764.0
75°	613.6	647.2	792.3	1135.7	2056.7	3887.0	5238.3	5309.1	5097.4	4852.9	3074.8
77.5°	410.3	422.9	517.0	662.2	931.8	2236.3	4027.3	4160.5	4234.6	3539.1	1966.4
80°	228.8	252.8	342.8	411.5	414.5	888.6	2414.8	2446.0	2356.0	1409.2	606.7
82.5°	121.2	134.4	228.8	241.7	226.1	297.5	900.0	900.9	752.7	377.9	180.2
85°	93.9	105.0	156.8	147.5	115.5	132.0	296.9	313.1	256.1	154.7	58.8
87.5°	46.8	58.2	106.5	93.6	45.3	37.8	106.2	113.4	101.1	60.6	21.3
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°	1566.1	1566.1	1566.1	1566.1	1566.1	1566.1	1566.1	1566.1	1566.1	1566.1	1566.1
2.5°	1570.0	1572.7	1576.0	1572.4	1571.2	1566.4	1558.3	1556.5	1552.3	1552.6	1555.0
5°	1583.8	1588.3	1586.5	1572.7	1556.2	1533.1	1509.1	1488.7	1475.2	1474.3	1473.4
7.5°	1610.1	1613.1	1599.1	1559.8	1513.6	1460.2	1409.8	1365.7	1339.0	1332.4	1330.9
10°	1651.5	1650.9	1612.2	1533.1	1441.0	1345.6	1264.7	1203.5	1167.8	1157.3	1154.6
12.5°	1697.7	1690.8	1616.7	1484.5	1338.4	1206.2	1103.6	1035.5	998.4	986.4	983.4
15°	1745.4	1728.3	1605.7	1411.9	1212.5	1055.9	948.3	885.3	865.2	858.6	857.4
17.5°	1789.8	1756.8	1573.9	1313.6	1068.8	906.3	822.3	797.1	801.9	810.6	810.9
20°	1833.3	1776.0	1522.9	1189.4	917.4	783.0	754.5	773.1	795.9	813.6	816.0
22.5°	1876.2	1789.5	1457.2	1046.0	781.8	713.8	733.8	767.7	793.8	813.0	816.3
25°	1912.1	1792.8	1366.6	893.1	687.7	687.7	724.0	756.0	781.8	800.7	804.0
27.5°	1925.3	1770.6	1238.9	751.5	640.3	675.7	710.2	736.8	758.7	778.8	782.4
30°	1930.4	1729.5	1091.3	637.9	620.8	662.8	691.6	714.4	735.0	753.9	757.2
32.5°	1931.3	1680.0	934.8	573.4	607.3	649.3	668.5	688.6	710.8	718.3	719.5
35°	1937.0	1621.5	769.8	540.4	594.7	636.7	652.0	666.4	630.4	633.1	635.5
37.5°	1953.5	1563.7	631.9	521.8	586.6	630.1	648.4	596.2	568.0	561.4	560.5
40°	1984.4	1501.9	529.6	506.8	583.6	633.4	625.3	556.6	508.0	471.7	466.3
42.5°	2027.3	1435.3	464.2	496.9	585.7	649.3	593.2	518.5	437.9	414.5	411.5
45°	2075.6	1365.4	428.9	490.0	592.9	661.6	586.6	467.8	405.2	387.5	386.0
47.5°	2122.4	1280.0	410.6	487.0	602.8	651.7	558.7	452.2	389.6	380.3	381.2
50°	2176.1	1202.9	399.5	483.7	611.5	645.4	527.2	444.1	383.6	395.0	407.0
52.5°	2221.3	1123.1	389.6	477.1	614.8	634.3	519.1	445.6	383.6	405.5	416.9
55°	2275.0	1062.8	378.2	463.3	608.5	602.8	513.4	454.6	388.1	374.3	375.5
57.5°	2344.3	1043.0	365.6	441.7	587.5	556.9	510.7	463.3	385.4	376.7	379.7
60°	2440.3	1064.0	360.5	413.6	554.8	520.9	511.0	458.8	366.5	351.5	351.8
62.5°	2531.7	1087.4	360.2	395.9	514.6	488.8	504.1	444.1	356.9	348.2	351.5
65°	2561.7	1063.7	345.8	376.1	469.3	450.4	491.5	428.6	349.7	336.5	335.9
67.5°	2521.5	990.3	316.7	344.0	417.5	405.8	475.0	410.0	338.3	327.5	325.7
70°	2402.2	826.2	280.7	301.7	358.4	355.4	448.9	388.4	323.0	313.7	305.9
72.5°	2081.0	588.7	236.6	251.0	291.8	301.4	413.0	360.2	301.4	281.3	269.3
75°	1709.1	435.8	194.3	197.3	221.6	247.7	363.5	327.2	275.9	241.7	232.4
77.5°	1046.6	266.6	154.7	155.9	158.9	197.6	299.3	290.3	243.5	201.5	194.9
80°	338.9	145.5	111.9	117.6	108.6	144.9	231.5	247.1	209.0	168.5	161.3
82.5°	129.0	84.9	75.6	79.5	75.3	97.2	168.8	197.9	171.2	138.6	112.8
85°	62.4	48.0	44.7	50.1	46.5	49.8	108.0	145.8	129.9	90.3	84.0
87.5°	22.2	21.3	17.1	23.1	19.8	17.7	33.0	73.5	85.8	62.1	55.5
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)