

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: P318356

Luminaire Tested: **GAN-SA2B-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10651 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

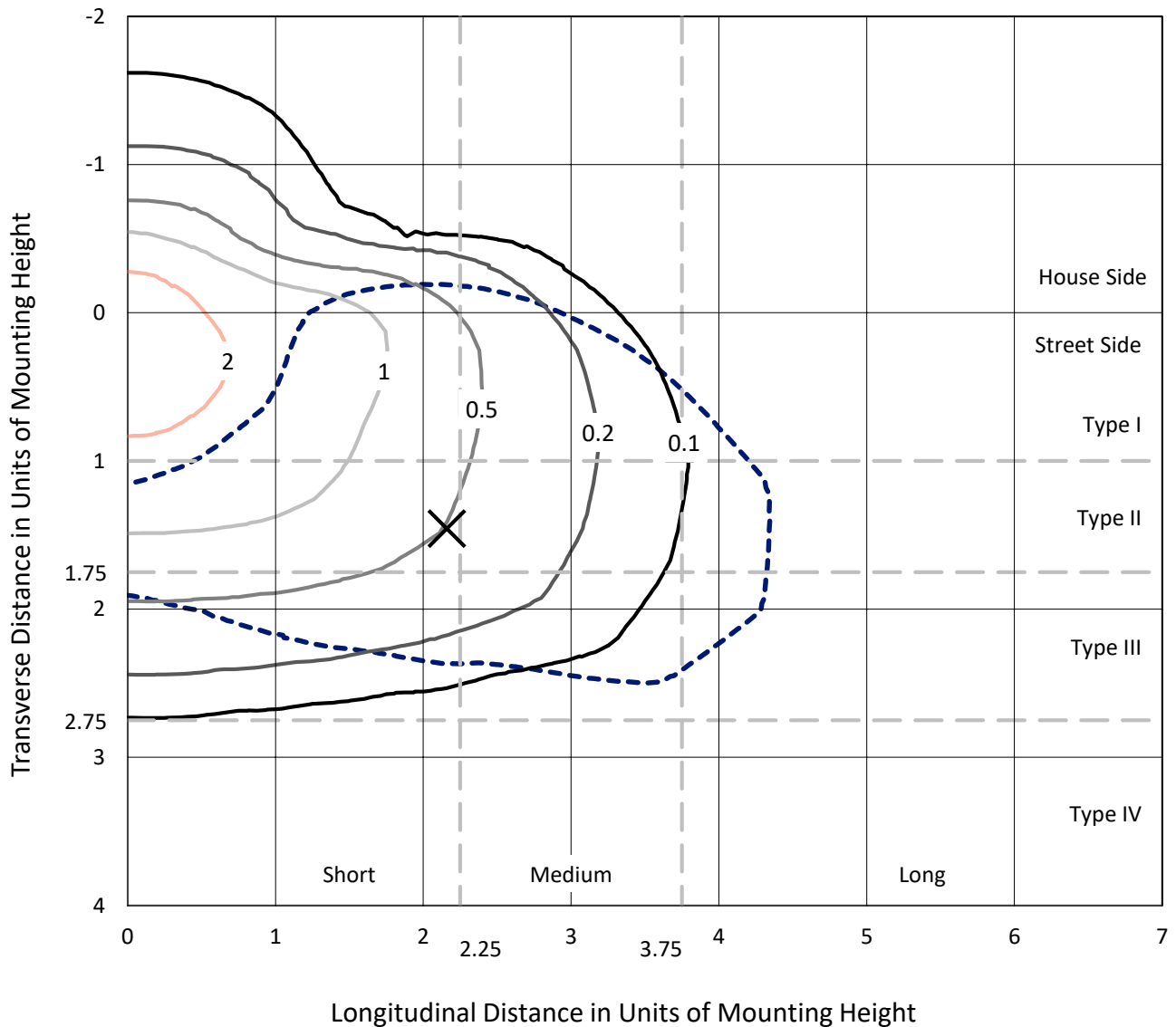
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

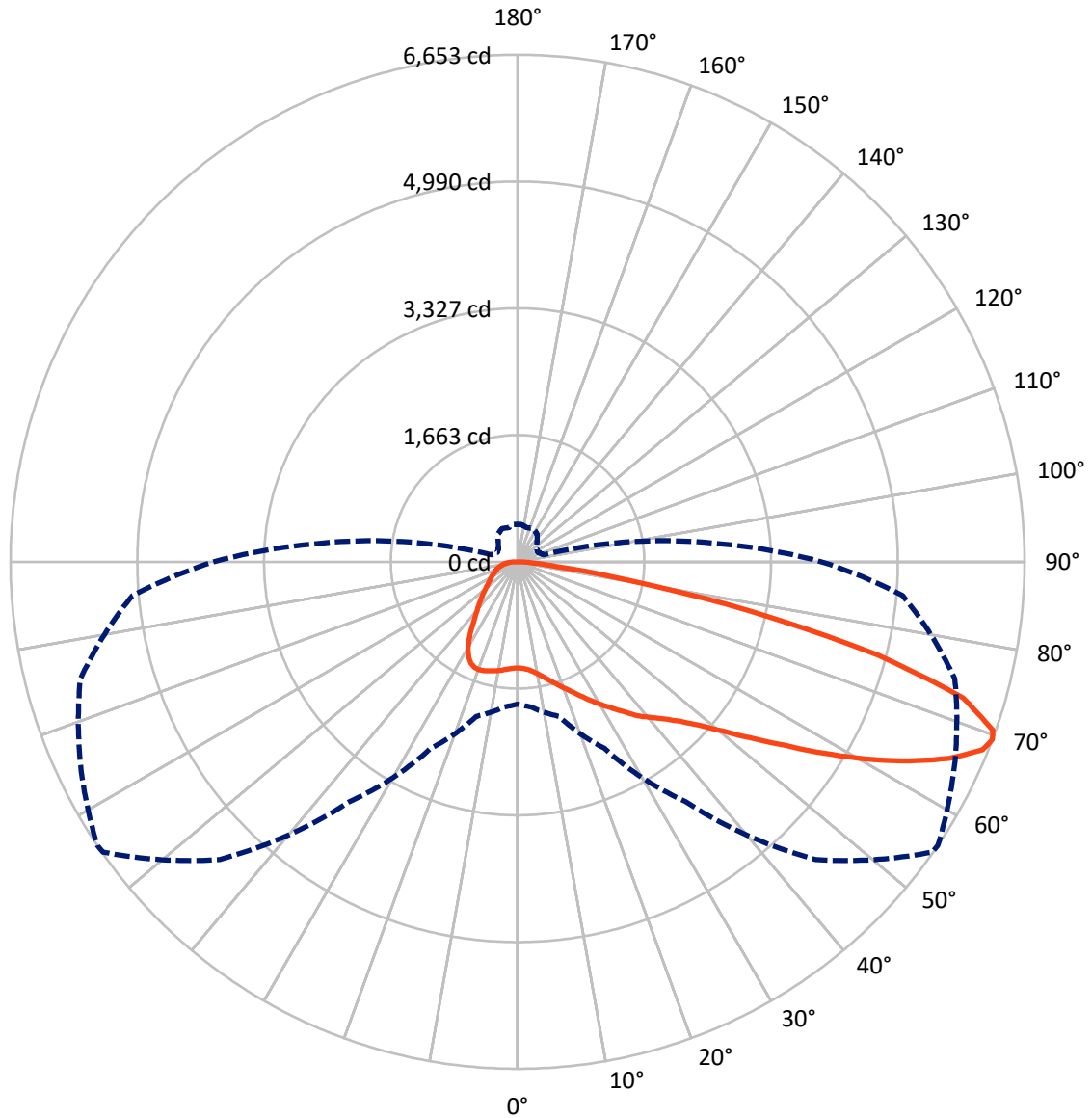
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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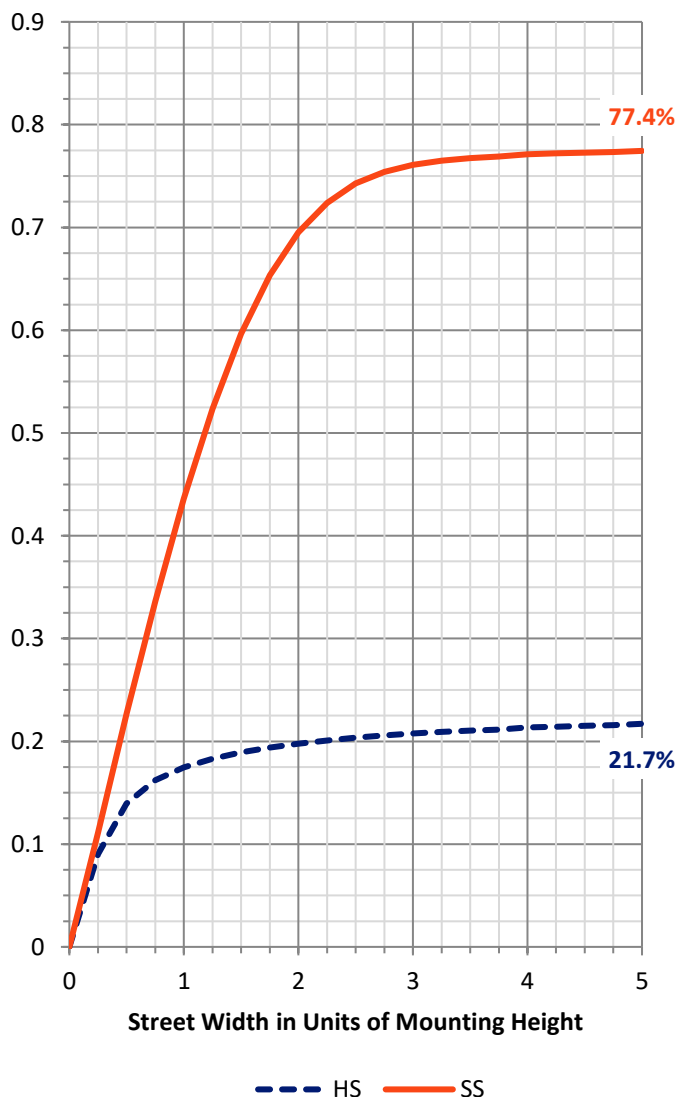
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2372.0	0.0	2372.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	8279.0	0.0	8279.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	10651.0	0.0	10651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	1.3
10°-20°	439.8	4.1
20°-30°	767.7	7.2
30°-40°	1102.7	10.4
40°-50°	1526.1	14.3
50°-60°	2236.0	21.0
60°-70°	2726.1	25.6
70°-80°	1507.1	14.2
80°-90°	208.7	2.0
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°	10651.0	100.0
0°-180°	10651.0	100.0

Coefficient of Utilization



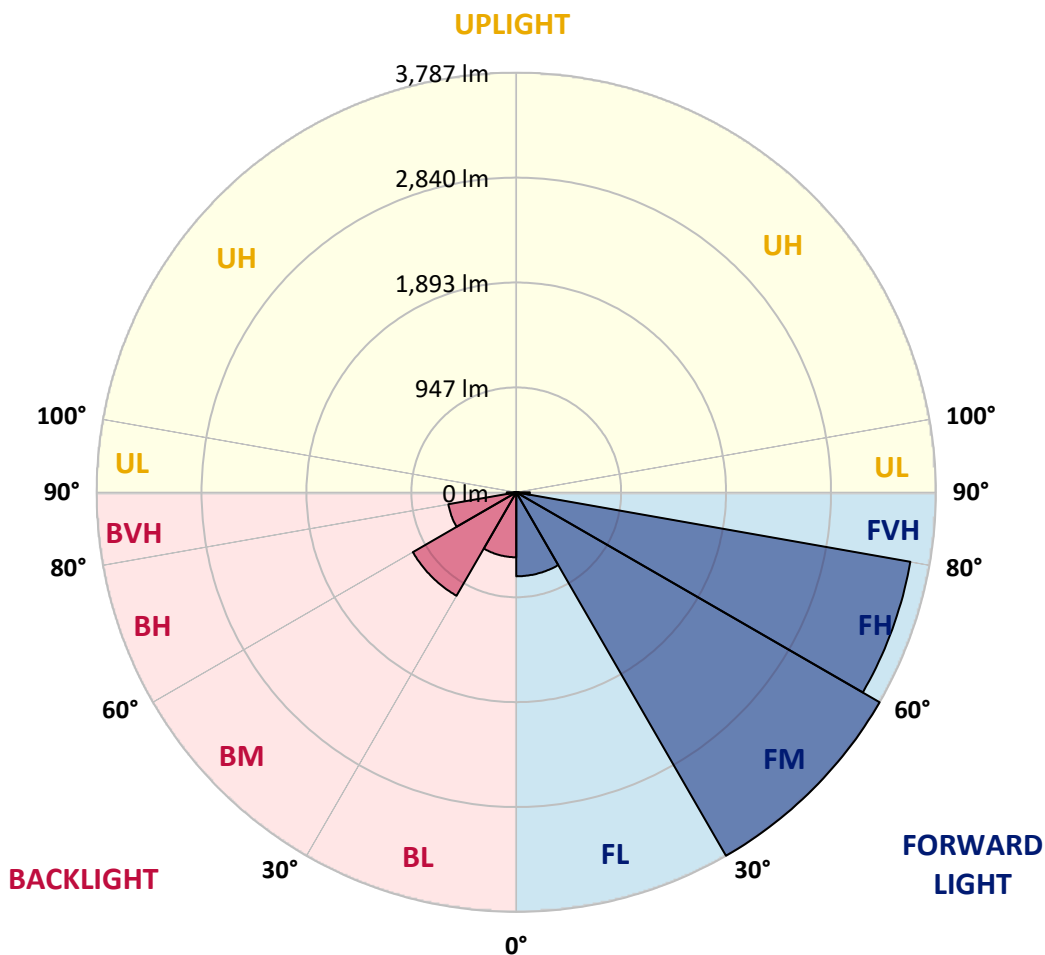
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	758.0	7.1			
FM (30°-60°)	3786.8	35.6			
FH (60°-80°)	3611.2	33.9			G2/5000
FVH (80°-90°)	123.0	1.2			G2/225
BL (0°-30°)	586.2	5.5	B2/1000		
BM (30°-60°)	1078.0	10.1	B2/2500		
BH (60°-80°)	622.0	5.8	B2/1000		G2/1000
BVH (80°-90°)	85.8	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1401.3	1402.7	1401.6	1404.6	1401.3	1403.5	1401.6	1401.6	1400.5	1397.2	1393.6
5°	1423.3	1426.2	1424.4	1427.3	1423.3	1424.0	1420.7	1420.7	1417.4	1410.4	1403.1
7.5°	1457.8	1461.1	1459.6	1462.5	1457.0	1457.0	1452.6	1452.3	1445.7	1434.3	1425.8
10°	1498.9	1503.3	1501.8	1506.2	1501.8	1503.3	1498.9	1498.9	1490.1	1473.9	1463.3
12.5°	1558.7	1564.2	1560.1	1559.8	1557.9	1560.9	1557.2	1556.5	1548.4	1526.4	1511.7
15°	1638.7	1644.5	1636.1	1635.4	1625.1	1624.0	1624.0	1622.9	1617.7	1591.3	1567.1
17.5°	1730.8	1732.6	1725.3	1713.5	1700.3	1691.9	1690.8	1693.7	1693.7	1662.9	1624.4
20°	1821.0	1824.3	1818.5	1805.2	1788.4	1775.9	1767.1	1773.0	1772.6	1735.9	1681.2
22.5°	1919.4	1927.1	1918.3	1901.4	1881.6	1867.6	1852.2	1857.3	1857.7	1812.6	1737.0
25°	2046.7	2039.7	2034.2	2010.3	1982.1	1967.8	1953.5	1958.6	1957.1	1895.1	1794.6
27.5°	2159.3	2160.8	2153.4	2128.1	2095.5	2063.9	2063.2	2066.5	2061.0	1981.0	1848.9
30°	2290.3	2291.0	2280.8	2258.0	2222.4	2181.7	2172.2	2177.7	2165.9	2062.5	1906.1
32.5°	2420.6	2424.2	2412.9	2385.3	2356.7	2307.2	2288.1	2291.8	2262.4	2145.7	1965.2
35°	2534.7	2539.8	2536.1	2517.8	2486.6	2444.0	2421.3	2419.1	2382.8	2247.7	2043.4
37.5°	2651.0	2655.8	2651.7	2636.3	2623.8	2578.7	2566.6	2566.6	2503.5	2352.0	2142.8
40°	2770.6	2777.9	2773.2	2751.9	2741.3	2720.7	2691.7	2684.7	2616.5	2477.1	2305.0
42.5°	2881.8	2891.3	2910.4	2897.9	2876.3	2879.2	2820.9	2817.2	2767.3	2662.0	2508.6
45°	3039.6	3053.5	3085.8	3076.2	3071.8	3055.7	2986.4	2983.1	2964.0	2910.8	2761.4
47.5°	3211.6	3230.7	3289.1	3290.9	3338.2	3307.8	3213.5	3202.1	3206.5	3208.7	3070.0
50°	3370.2	3391.1	3486.8	3532.0	3643.5	3650.1	3499.3	3489.0	3506.3	3556.9	3429.6
52.5°	3496.7	3523.2	3642.8	3782.2	3973.4	4027.7	3851.2	3843.5	3856.3	3943.6	3836.1
55°	3589.6	3618.2	3748.4	4002.4	4307.6	4403.4	4256.3	4248.9	4257.0	4368.2	4278.3
57.5°	3611.2	3618.2	3807.2	4150.6	4589.8	4819.8	4752.0	4737.3	4697.7	4794.5	4766.3
60°	3509.6	3537.5	3758.7	4202.7	4808.1	5230.4	5270.1	5251.7	5140.5	5219.8	5197.0
62.5°	3303.4	3353.3	3577.8	4123.4	4893.6	5565.8	5778.2	5756.2	5564.7	5616.1	5506.7
65°	2966.5	2987.8	3223.8	3850.1	4785.0	5780.4	6231.4	6220.4	5979.3	5899.0	5564.0
67.5°	2364.1	2404.1	2604.4	3278.8	4340.7	5755.1	6581.8	6580.7	6250.1	6003.9	5361.1
69°	1867.6	1909.1	2099.9	2700.9	3840.9	5523.6	6640.5	6653.3	6326.4	5940.1	5071.2
70°	1489.0	1537.0	1668.0	2274.9	3397.3	5218.3	6591.7	6614.8	6311.7	5834.7	4803.7
72.5°	633.7	672.6	765.8	1172.7	2070.5	3896.7	6027.0	6114.3	5971.6	5340.1	3970.1
75°	276.7	288.8	331.0	478.1	919.1	2120.8	4721.5	4883.0	5106.0	4513.8	2957.4
77.5°	202.5	207.7	230.8	280.7	412.4	801.0	3036.3	3130.2	3682.4	3284.7	1814.0
80°	156.7	160.3	178.3	206.2	269.3	324.0	1384.8	1465.5	2070.5	1687.1	755.5
82.5°	124.8	127.3	139.8	151.9	186.0	196.3	459.7	510.0	764.3	466.0	200.0
85°	115.9	118.9	123.3	110.8	119.2	115.2	198.9	208.0	230.8	183.1	83.7
87.5°	52.5	62.0	122.2	86.2	63.5	50.6	81.5	85.1	95.8	96.1	37.1
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°	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1395.8	1394.7	1396.5	1392.1	1397.6	1397.2	1395.4	1396.1	1399.8	1399.4	1399.8
5°	1404.2	1403.5	1405.7	1402.4	1409.0	1411.2	1411.5	1414.8	1418.9	1420.0	1420.0
7.5°	1425.5	1425.5	1426.6	1422.2	1426.6	1426.2	1424.4	1427.7	1431.7	1432.1	1431.7
10°	1462.2	1462.5	1460.7	1449.3	1445.7	1435.8	1426.6	1426.9	1432.1	1436.1	1437.2
12.5°	1508.4	1506.9	1498.9	1478.0	1462.5	1442.4	1432.8	1432.5	1437.6	1440.9	1442.0
15°	1561.2	1557.2	1536.3	1502.2	1475.0	1455.2	1439.8	1436.1	1433.2	1429.5	1429.9
17.5°	1611.1	1602.0	1567.1	1519.8	1491.2	1464.7	1435.0	1411.2	1394.7	1385.1	1382.2
20°	1661.8	1643.8	1593.5	1536.3	1500.0	1451.9	1394.7	1346.2	1316.1	1302.2	1299.6
22.5°	1708.0	1679.0	1618.1	1553.5	1493.0	1408.6	1318.7	1248.3	1206.4	1187.7	1189.2
25°	1753.1	1712.8	1643.8	1565.6	1457.8	1332.3	1213.0	1126.4	1078.0	1057.1	1056.4
27.5°	1792.8	1746.9	1671.7	1555.7	1392.1	1223.7	1087.9	1003.5	963.2	945.2	942.2
30°	1838.3	1789.8	1708.7	1517.9	1296.0	1098.2	965.7	906.3	877.7	859.7	856.4
32.5°	1893.7	1848.2	1739.2	1449.3	1173.0	967.2	870.3	828.9	802.8	782.6	779.0
35°	1974.4	1925.2	1746.9	1351.0	1038.0	863.7	800.3	757.7	722.5	696.4	693.8
37.5°	2075.7	2021.7	1729.3	1223.7	907.0	796.6	741.9	689.4	643.6	606.9	601.0
40°	2221.7	2140.2	1680.5	1076.9	810.5	744.8	685.0	625.2	568.4	525.4	517.0
42.5°	2397.1	2279.3	1605.6	930.9	739.7	692.4	628.5	554.4	500.1	469.7	465.3
45°	2620.2	2423.9	1501.8	803.2	670.0	639.9	567.6	499.4	465.6	443.2	439.6
47.5°	2874.8	2586.0	1392.8	699.3	610.9	590.7	518.8	474.8	448.0	430.4	427.1
50°	3187.8	2769.1	1277.2	614.2	551.5	531.7	495.7	461.2	439.9	426.4	423.1
52.5°	3540.8	2975.7	1194.0	547.1	502.3	488.0	483.6	453.9	436.6	426.4	423.1
55°	3920.9	3186.0	1104.1	490.6	459.7	463.8	475.5	454.6	442.9	430.4	425.6
57.5°	4301.4	3403.2	1003.9	442.9	426.0	445.8	470.0	456.1	446.2	434.1	429.7
60°	4602.3	3540.8	848.7	402.9	399.2	426.0	456.8	445.1	432.2	432.6	431.9
62.5°	4742.8	3533.4	677.3	367.3	372.4	399.2	435.5	427.8	417.2	431.5	432.6
65°	4663.9	3357.3	527.3	335.0	343.8	371.3	413.5	419.4	423.1	450.6	454.2
67.5°	4332.9	3014.6	408.4	306.7	317.8	352.2	415.7	456.8	461.6	490.6	490.2
69°	3990.6	2693.2	354.8	292.1	304.9	357.0	444.3	480.7	462.7	493.5	489.1
70°	3703.7	2438.9	326.2	282.2	299.0	365.5	463.4	480.3	457.2	483.6	476.3
72.5°	2852.4	1754.6	276.7	263.8	279.2	349.7	468.9	469.7	444.3	449.5	437.0
75°	1956.4	1108.8	241.4	238.9	249.1	315.2	451.3	448.7	410.9	403.6	393.3
77.5°	1078.7	563.2	205.1	215.0	222.0	279.2	410.2	406.5	375.4	359.9	356.3
80°	416.1	246.6	173.2	191.2	195.6	241.8	359.6	356.3	330.2	310.4	304.9
82.5°	157.0	129.2	143.1	165.5	164.0	199.6	304.5	302.7	277.4	248.4	239.6
85°	72.6	77.4	113.4	136.5	125.9	147.9	243.6	246.9	216.1	181.6	181.6
87.5°	30.8	43.3	80.4	103.1	84.8	99.8	178.7	170.6	156.7	108.6	102.0
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)