

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: P318006

Luminaire Tested: **GAN-SA2C-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11877 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

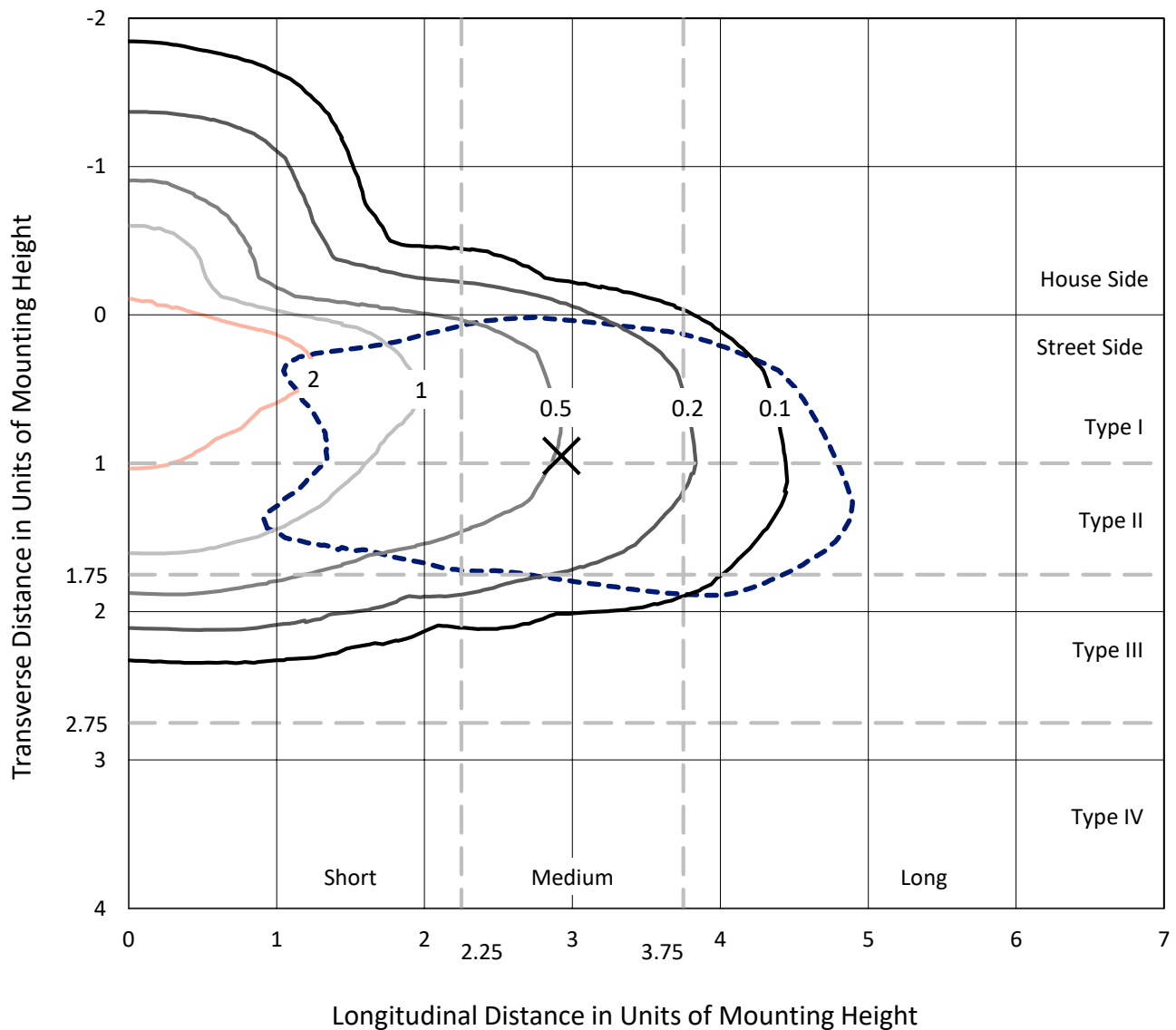
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

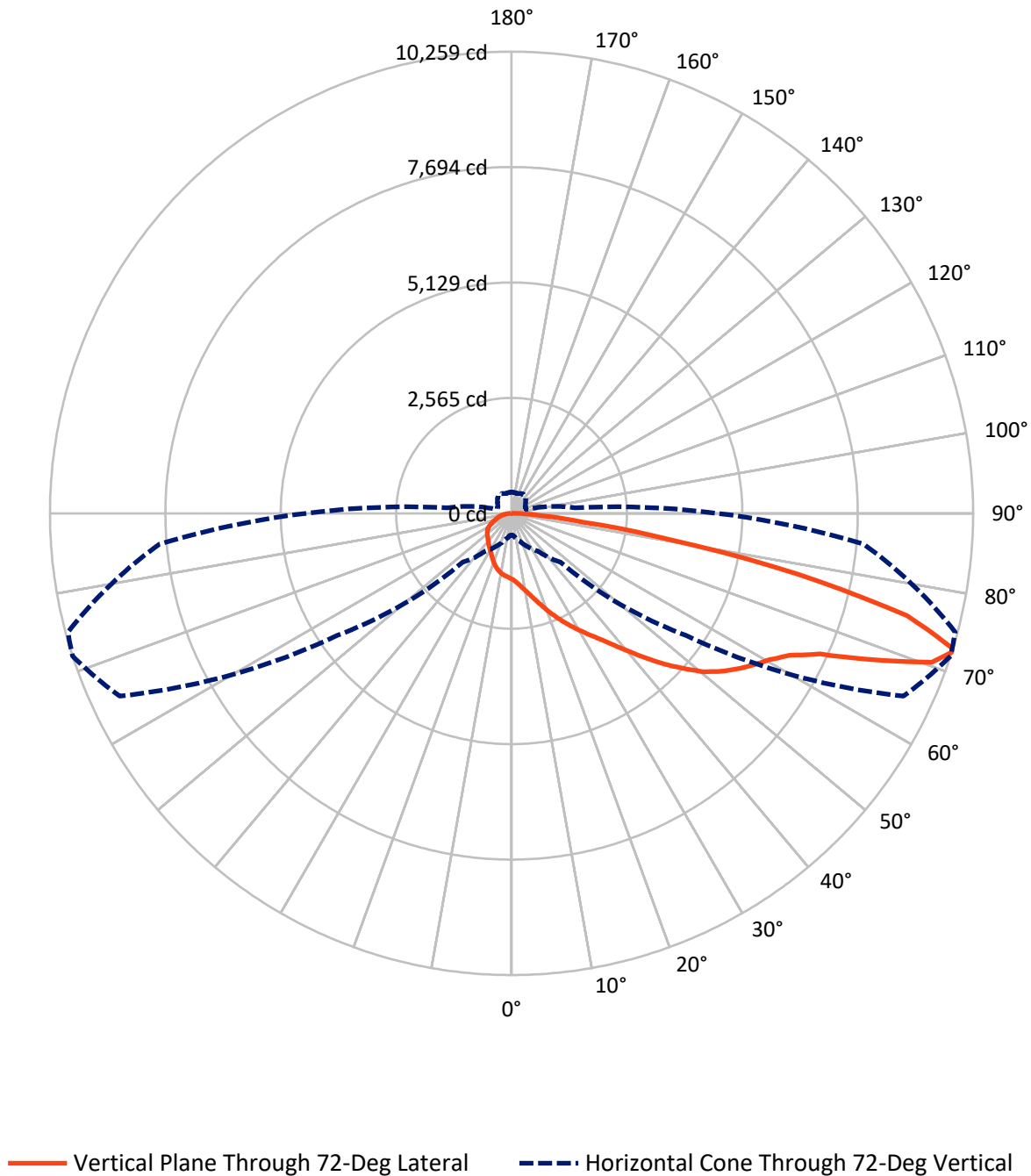
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2203.3	0.0	2203.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9673.7	0.0	9673.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	11877.0	0.0	11877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	1.2
10°-20°	473.1	4.0
20°-30°	829.1	7.0
30°-40°	1229.3	10.4
40°-50°	1797.9	15.1
50°-60°	2473.9	20.8
60°-70°	2754.2	23.2
70°-80°	1866.3	15.7
80°-90°	306.7	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°	11877.0	100.0
0°-180°	11877.0	100.0

Coefficient of Utilization



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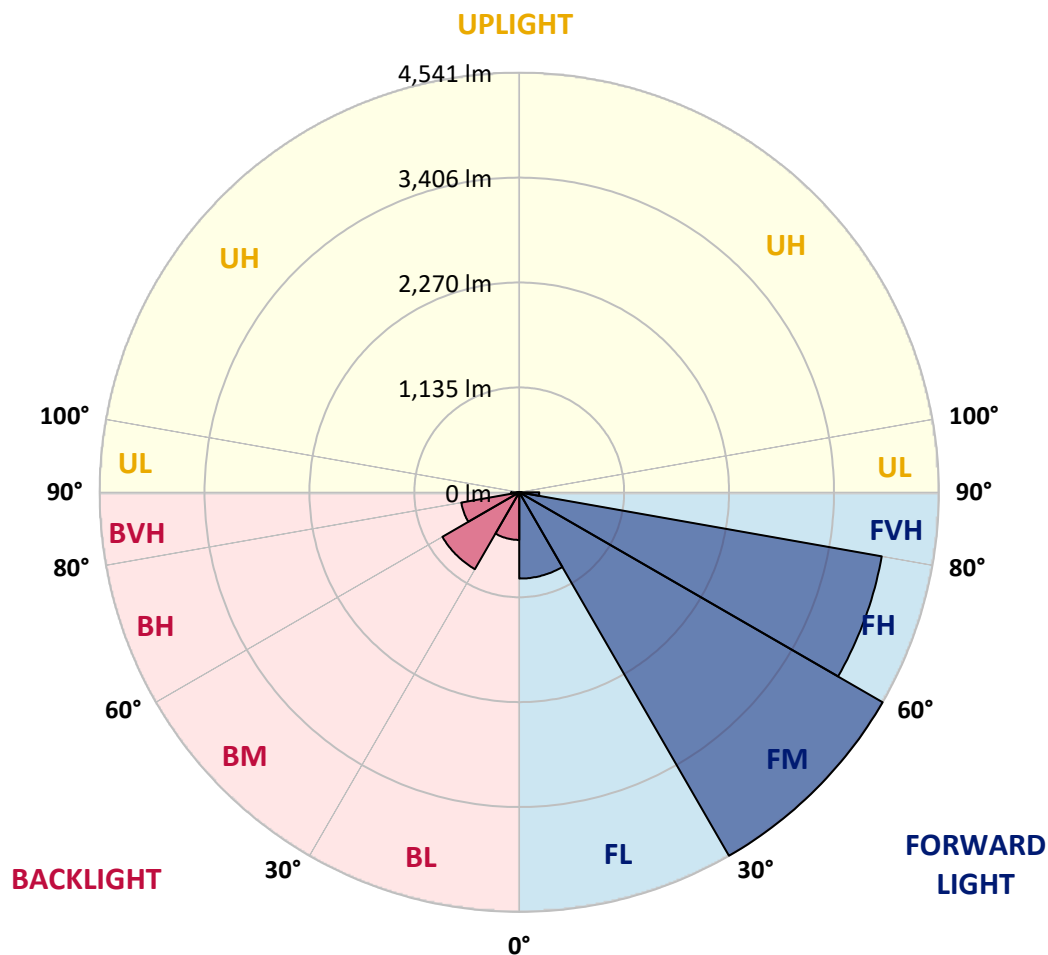
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	933.6	7.9			
FM	(30°-60°)	4540.7	38.2			
FH	(60°-80°)	3983.0	33.5			G2/5000
FVH	(80°-90°)	216.4	1.8			G2/225
BL	(0°-30°)	515.0	4.3	B2/1000		
BM	(30°-60°)	960.4	8.1	B1/1000		
BH	(60°-80°)	637.4	5.4	B2/1000		G2/1000
BVH	(80°-90°)	90.4	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1461.2	1461.2	1461.2	1461.2	1461.2	1461.2	1461.2	1461.2	1461.2	1461.2	1461.2
2.5°	1614.1	1611.7	1603.1	1603.1	1586.7	1572.8	1546.7	1529.1	1508.2	1500.8	1476.3
5°	1770.3	1771.2	1760.5	1753.2	1729.0	1699.6	1655.0	1614.5	1574.1	1557.7	1507.4
7.5°	1901.6	1900.0	1897.1	1891.0	1868.5	1838.2	1778.1	1718.0	1658.3	1633.8	1547.1
10°	1985.9	1989.5	1992.0	1994.9	1985.5	1963.8	1906.9	1833.7	1755.6	1722.1	1594.5
12.5°	2028.4	2034.9	2046.4	2066.0	2081.6	2079.1	2037.8	1960.1	1867.3	1825.1	1653.8
15°	2053.3	2061.9	2079.9	2115.1	2158.9	2183.8	2172.8	2102.4	1999.0	1947.0	1726.2
17.5°	2068.9	2075.8	2103.6	2150.7	2215.7	2281.9	2311.0	2252.1	2147.8	2088.5	1809.2
20°	2079.5	2084.8	2119.6	2174.8	2259.0	2364.6	2445.5	2430.8	2311.8	2234.9	1895.9
22.5°	2103.2	2107.7	2140.9	2196.5	2289.7	2425.9	2575.2	2597.2	2484.8	2397.7	1988.7
25°	2169.5	2169.5	2197.3	2236.1	2323.7	2479.1	2684.8	2782.5	2661.5	2560.0	2074.6
27.5°	2295.8	2294.6	2304.8	2318.3	2384.6	2533.0	2782.5	2946.1	2844.7	2733.8	2158.0
30°	2445.5	2453.7	2454.9	2448.4	2479.5	2600.5	2872.9	3118.7	3029.1	2909.7	2243.5
32.5°	2638.1	2643.5	2637.3	2615.6	2611.2	2696.2	2961.6	3299.4	3228.7	3093.3	2321.6
35°	2882.7	2872.5	2853.2	2809.1	2767.0	2824.2	3063.0	3480.2	3452.8	3315.4	2429.2
37.5°	3144.8	3145.2	3121.5	3021.3	2963.3	2987.8	3202.9	3685.1	3723.9	3579.5	2567.0
40°	3355.0	3366.1	3380.8	3249.1	3173.9	3207.8	3380.8	3922.7	4044.5	3892.8	2746.5
42.5°	3501.8	3514.5	3556.2	3473.6	3395.5	3458.5	3590.2	4176.2	4404.4	4254.3	2956.7
45°	3657.2	3664.2	3693.6	3658.1	3608.2	3750.1	3826.1	4438.8	4785.1	4639.5	3191.9
47.5°	3820.8	3828.2	3858.4	3834.7	3808.6	4022.4	4072.3	4686.2	5149.9	5062.8	3443.0
50°	4022.8	4027.8	4056.4	4013.4	4021.6	4227.7	4292.3	4913.1	5532.3	5443.1	3694.9
52.5°	4298.5	4299.7	4339.4	4300.5	4262.1	4378.2	4481.7	5127.0	5832.0	5789.9	3946.8
55°	4514.4	4527.5	4657.5	4649.4	4627.3	4514.8	4640.0	5330.7	6099.5	6119.5	4214.2
57.5°	4376.6	4427.7	4691.1	4876.7	5057.5	4854.7	4853.8	5560.1	6348.1	6443.0	4508.3
60°	3833.1	3902.6	4290.7	4702.5	5268.1	5446.0	5298.0	5840.2	6599.2	6763.6	4876.7
62.5°	2737.5	2852.0	3377.9	4035.5	4979.4	5837.8	6201.7	6284.8	6940.7	7135.0	5355.6
65°	1383.9	1470.6	1911.4	2703.6	3978.3	5581.8	7184.0	7258.1	7534.1	7706.7	6093.0
67.5°	840.8	873.5	1088.6	1503.7	2439.0	4348.0	7504.7	8880.4	8682.4	8774.0	7144.4
70°	619.6	643.7	777.8	998.7	1402.7	2551.4	6520.7	10038.1	9908.1	9897.8	7921.4
72°	482.6	500.1	618.7	806.9	1025.6	1530.7	4726.2	9610.8	10258.9	10207.4	7850.2
72.5°	457.6	473.2	581.1	759.4	969.2	1387.6	4249.4	9322.4	10233.6	10210.3	7758.2
75°	360.3	371.3	430.2	587.3	758.6	787.2	2328.6	7224.5	9078.3	9455.8	6977.9
77.5°	298.1	299.8	330.8	427.4	591.3	556.6	1143.8	5012.5	6500.7	6915.8	4943.0
80°	242.9	245.0	259.7	299.8	447.4	411.8	543.1	2882.3	3639.7	3644.2	2350.6
82.5°	193.4	193.8	210.2	219.2	321.4	294.4	311.2	1353.2	1590.4	1529.9	844.9
85°	136.2	133.3	205.3	179.9	210.2	188.9	171.8	535.7	657.6	629.0	264.6
87.5°	45.4	47.0	91.2	116.6	122.7	107.1	76.5	205.3	248.2	246.2	83.8
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°	1461.2	1461.2	1461.2	1461.2	1461.2	1461.2	1461.2	1461.2	1461.2	1461.2	1461.2
2.5°	1468.5	1455.5	1436.2	1415.0	1398.2	1381.0	1368.3	1361.8	1354.4	1348.3	1355.7
5°	1484.1	1459.5	1418.6	1378.6	1349.1	1323.0	1304.1	1294.3	1285.3	1279.2	1280.0
7.5°	1509.4	1469.8	1401.1	1342.6	1301.7	1273.5	1254.3	1247.7	1242.0	1240.3	1242.4
10°	1536.4	1477.9	1377.8	1300.1	1253.4	1230.1	1221.5	1226.0	1230.1	1233.8	1237.9
12.5°	1567.1	1485.3	1343.8	1250.2	1210.5	1201.5	1210.1	1229.7	1244.0	1252.6	1257.9
15°	1607.2	1491.9	1304.6	1200.3	1173.7	1183.9	1212.9	1246.9	1271.8	1287.8	1290.2
17.5°	1644.0	1491.4	1254.3	1150.0	1143.8	1173.7	1217.4	1265.3	1298.8	1321.3	1325.8
20°	1682.0	1480.4	1195.8	1100.9	1113.6	1162.6	1219.5	1277.2	1317.6	1343.8	1349.9
22.5°	1717.6	1461.2	1131.6	1056.3	1088.2	1147.9	1211.7	1270.2	1310.7	1332.0	1338.5
25°	1741.7	1427.6	1066.5	1018.7	1065.7	1129.9	1186.4	1233.4	1263.7	1274.3	1275.9
27.5°	1754.0	1383.9	1005.2	986.0	1042.4	1100.5	1139.3	1162.6	1171.2	1170.4	1168.8
30°	1755.6	1326.2	952.4	959.4	1015.4	1057.1	1075.5	1071.0	1060.0	1041.2	1042.8
32.5°	1750.3	1261.2	908.3	934.0	981.1	1004.4	1005.2	983.5	954.1	924.2	916.0
35°	1751.9	1197.4	869.4	905.4	939.4	949.6	940.2	908.3	868.2	829.8	821.6
37.5°	1769.9	1141.8	835.9	872.3	893.1	895.6	882.1	848.6	819.1	781.5	778.2
40°	1812.9	1102.1	804.0	835.1	846.9	848.2	828.9	805.2	807.7	787.6	787.2
42.5°	1890.2	1084.9	775.8	796.2	803.6	806.0	791.3	776.2	797.5	784.4	779.9
45°	1990.0	1089.0	752.1	758.2	771.7	783.1	774.1	755.7	763.9	707.1	688.3
47.5°	2105.3	1115.2	733.2	725.5	748.8	770.5	756.6	728.8	699.7	643.3	632.6
50°	2240.2	1155.7	716.1	693.2	723.8	753.3	739.4	699.7	656.0	628.6	624.9
52.5°	2380.9	1205.2	698.9	657.6	692.4	740.2	733.2	693.2	639.2	612.2	607.3
55°	2540.4	1255.1	677.2	616.3	658.4	734.1	730.4	669.5	626.5	611.4	607.7
57.5°	2738.7	1311.9	648.6	573.3	626.5	712.0	700.5	655.1	613.4	602.0	600.7
60°	2997.2	1395.7	607.3	527.5	587.7	678.0	675.6	634.3	592.6	584.4	582.8
62.5°	3384.9	1534.4	550.4	481.7	544.3	620.4	642.9	606.1	570.5	570.1	570.9
65°	3986.0	1742.9	488.7	441.7	500.6	571.7	604.8	577.0	548.0	556.2	557.4
67.5°	4682.9	1915.9	428.2	402.4	456.0	525.5	570.5	548.0	518.1	539.4	539.8
70°	4914.8	1761.4	375.0	363.6	409.8	480.9	533.3	516.1	485.8	507.1	505.1
72°	4573.7	1421.9	340.7	334.1	375.0	444.1	500.1	486.2	456.4	470.7	465.4
72.5°	4466.2	1355.7	332.1	326.8	365.6	434.7	491.6	478.9	449.0	461.3	456.4
75°	3984.0	1177.4	285.4	286.7	319.0	388.9	443.3	439.2	408.5	409.8	408.1
77.5°	2889.6	863.3	240.5	248.6	271.5	341.9	394.6	392.2	358.6	352.5	351.3
80°	1340.9	440.4	195.9	199.6	223.3	285.9	336.6	333.3	306.3	298.5	294.0
82.5°	459.3	209.4	147.2	149.7	173.0	230.2	292.0	289.9	267.5	252.3	242.9
85°	164.0	104.3	103.1	100.6	123.5	181.2	254.4	243.3	210.2	179.1	178.3
87.5°	53.2	44.6	53.2	52.8	72.0	122.7	184.8	157.4	152.5	126.8	124.3
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)