

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: P318031

Luminaire Tested: **GAN-SA7A-730-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318031
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-SA7A-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29458 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

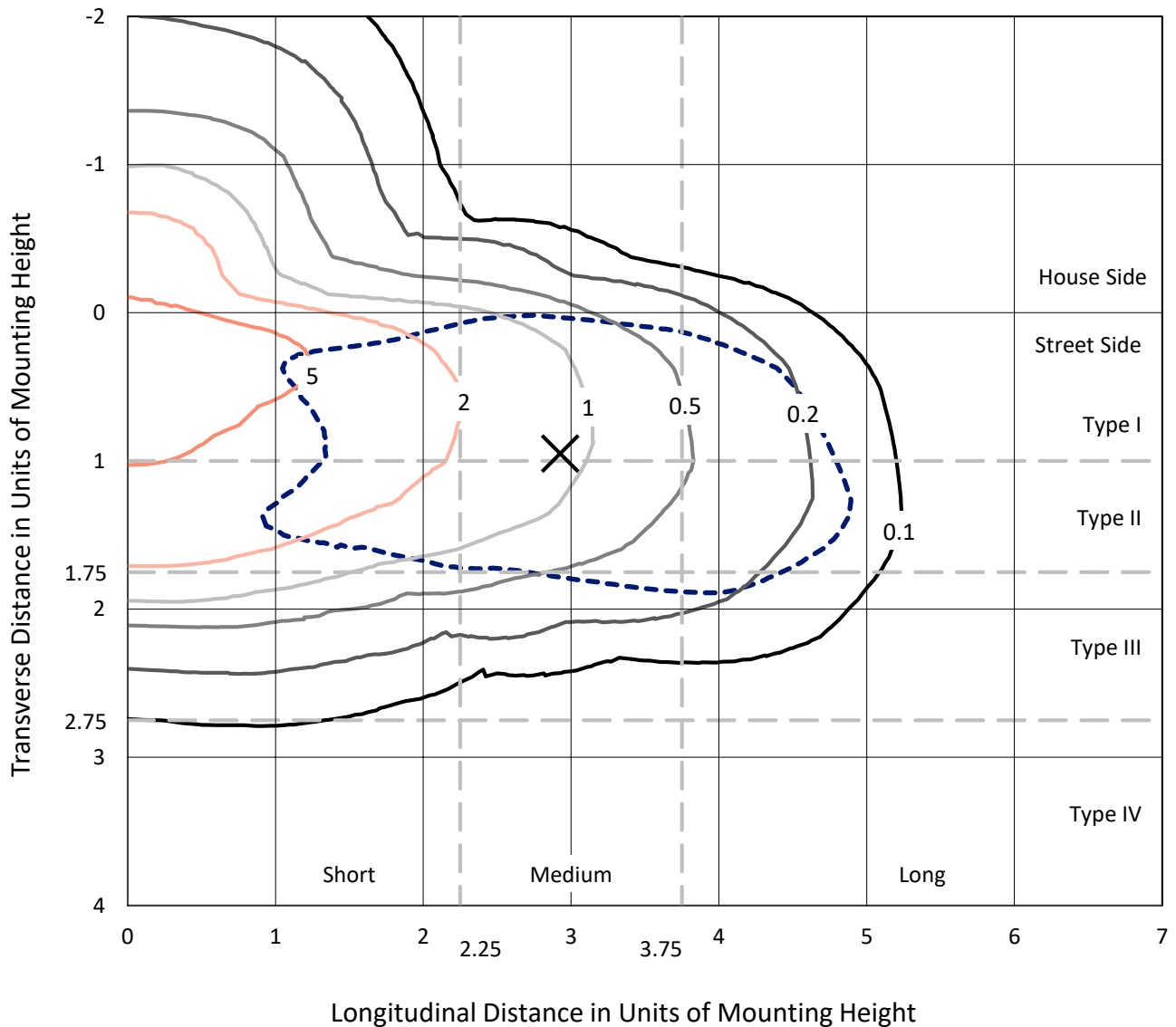
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

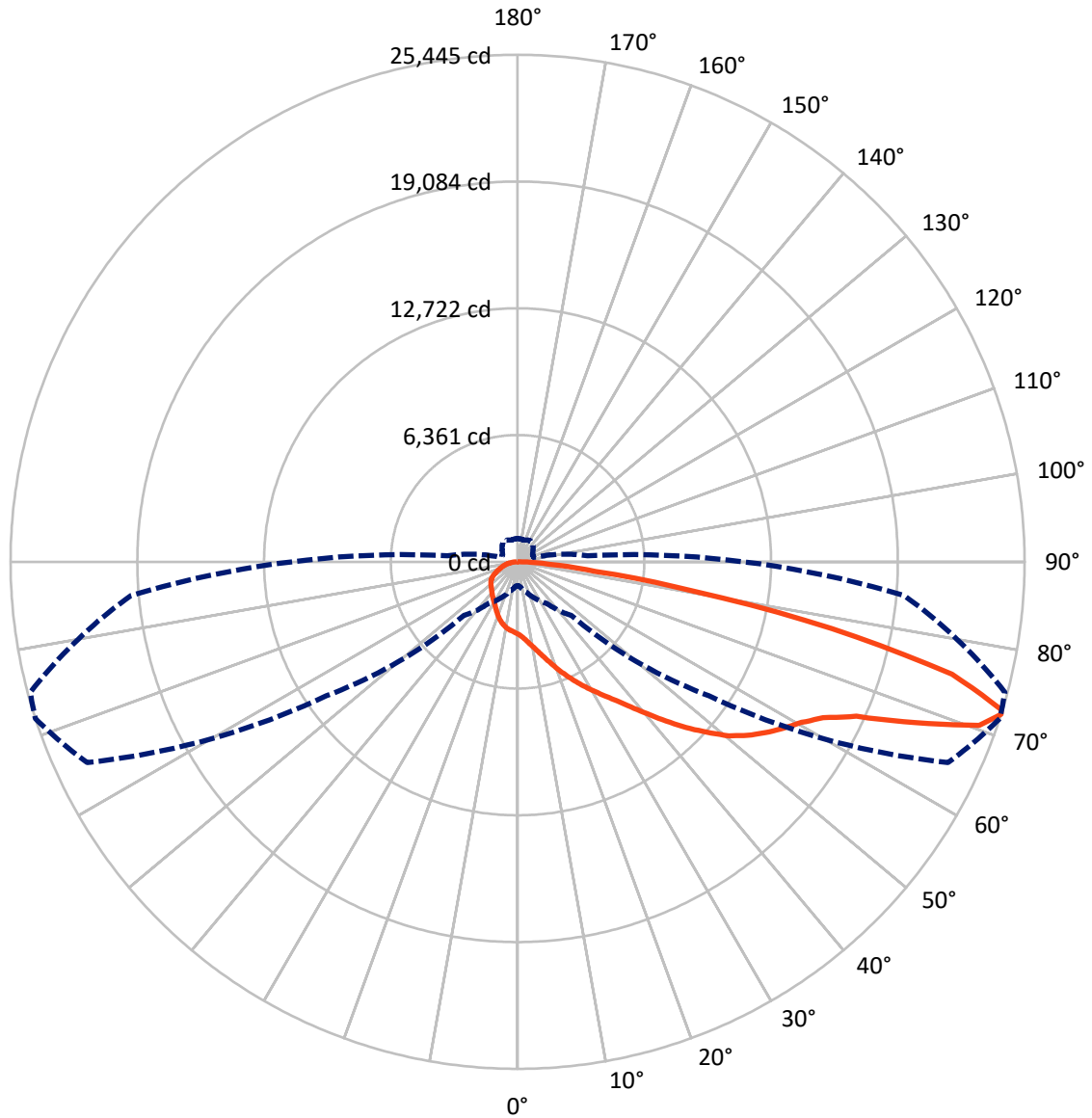
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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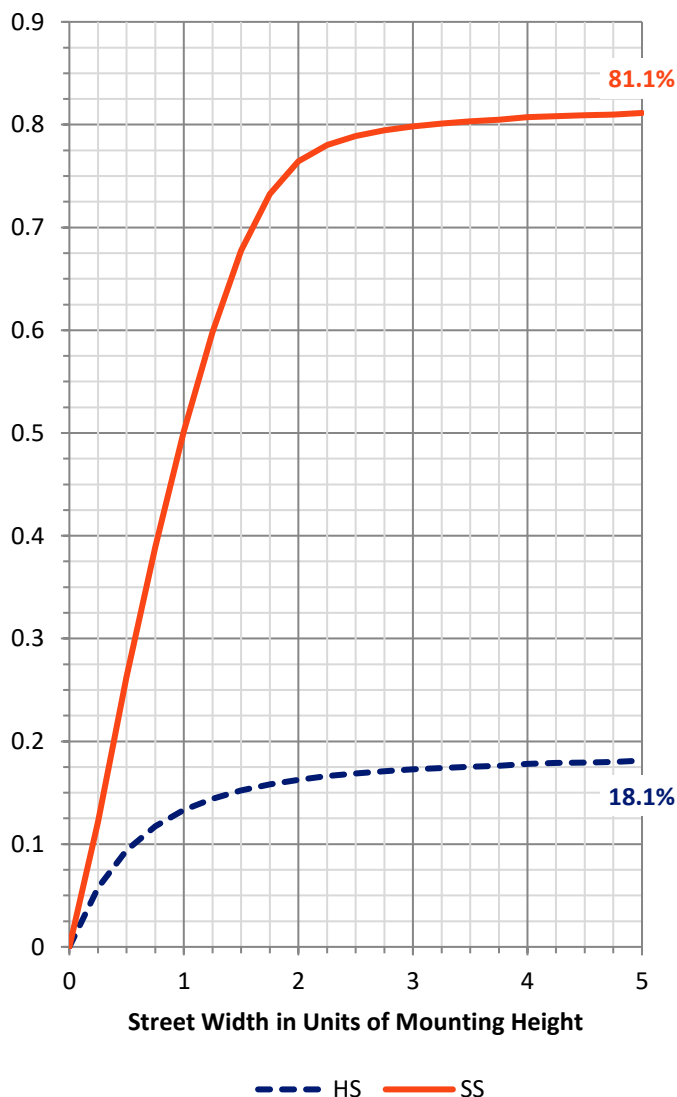
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5464.7	0.0	5464.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	23993.4	0.0	23993.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	29458.0	0.0	29458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.1	1.2
10°-20°	1173.5	4.0
20°-30°	2056.4	7.0
30°-40°	3048.9	10.4
40°-50°	4459.3	15.1
50°-60°	6136.0	20.8
60°-70°	6831.2	23.2
70°-80°	4628.8	15.7
80°-90°	760.8	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°	29458.0	100.0
0°-180°	29458.0	100.0

Coefficient of Utilization

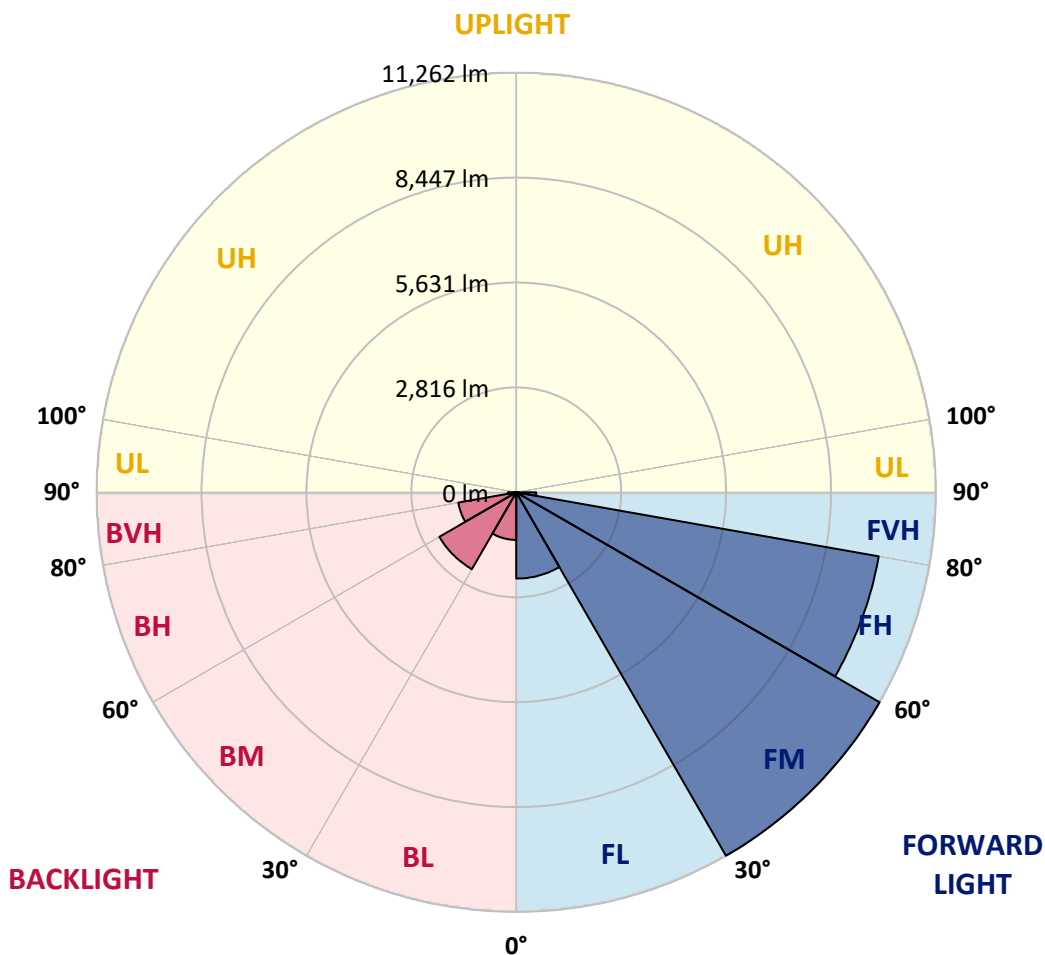


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2315.6	7.9			
FM (30°-60°)	11262.2	38.2			
FH (60°-80°)	9879.0	33.5			G4/12000
FVH (80°-90°)	536.6	1.8			G4/750
BL (0°-30°)	1277.4	4.3	B3/2500		
BM (30°-60°)	2382.1	8.1	B2/2500		
BH (60°-80°)	1581.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	224.1	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3624.1	3624.1	3624.1	3624.1	3624.1	3624.1	3624.1	3624.1	3624.1	3624.1	3624.1
2.5°	4003.5	3997.4	3976.1	3976.1	3935.5	3901.0	3836.1	3792.5	3740.7	3722.5	3661.6
5°	4390.9	4392.9	4366.6	4348.3	4288.5	4215.4	4104.9	4004.5	3904.0	3863.5	3738.7
7.5°	4716.5	4712.4	4705.3	4690.1	4634.3	4559.3	4410.2	4261.1	4113.0	4052.1	3837.1
10°	4925.5	4934.6	4940.7	4947.8	4924.4	4870.7	4729.7	4548.1	4354.4	4271.2	3954.8
12.5°	5030.9	5047.2	5075.6	5124.3	5162.8	5156.7	5054.3	4861.6	4631.3	4526.8	4101.8
15°	5092.8	5114.1	5158.7	5246.0	5354.5	5416.4	5389.0	5214.5	4957.9	4829.1	4281.4
17.5°	5131.4	5148.6	5217.6	5334.2	5495.5	5659.8	5731.8	5585.8	5327.1	5180.0	4487.3
20°	5157.7	5170.9	5257.1	5394.1	5603.0	5864.7	6065.5	6029.0	5733.9	5543.2	4702.3
22.5°	5216.6	5227.7	5309.9	5447.8	5679.1	6016.8	6387.1	6441.8	6162.9	5946.9	4932.6
25°	5380.9	5380.9	5449.8	5546.2	5763.3	6148.7	6658.9	6901.3	6601.1	6349.5	5145.6
27.5°	5694.3	5691.3	5716.6	5750.1	5914.4	6282.6	6901.3	7307.0	7055.5	6780.6	5352.5
30°	6065.5	6085.8	6088.9	6072.6	6149.7	6449.9	7125.5	7735.1	7512.9	7216.8	5564.5
32.5°	6543.3	6556.5	6541.2	6487.5	6476.3	6687.3	7345.6	8183.4	8007.9	7672.2	5758.2
35°	7149.8	7124.5	7076.8	6967.2	6862.8	7004.8	7597.1	8631.7	8563.8	8222.9	6025.0
37.5°	7800.0	7801.0	7742.2	7493.7	7349.6	7410.5	7944.0	9139.9	9236.2	8878.2	6366.8
40°	8321.3	8348.7	8385.2	8058.6	7872.0	7956.2	8385.2	9729.2	10031.5	9655.1	6812.1
42.5°	8685.5	8716.9	8820.4	8615.5	8421.8	8578.0	8904.6	10358.1	10924.0	10551.8	7333.4
45°	9070.9	9088.1	9161.2	9072.9	8949.2	9301.2	9489.8	11009.2	11868.4	11507.3	7916.6
47.5°	9476.6	9494.9	9569.9	9511.1	9446.2	9976.7	10100.4	11622.9	12773.1	12557.1	8539.4
50°	9977.7	9989.9	10060.9	9954.4	9974.6	10485.9	10646.1	12185.8	13721.5	13500.4	9164.2
52.5°	10661.3	10664.4	10762.8	10666.4	10571.1	10859.1	11115.7	12716.3	14465.0	14360.5	9789.0
55°	11196.9	11229.3	11551.9	11531.6	11476.8	11197.9	11508.3	13221.4	15128.3	15178.0	10452.4
57.5°	10855.1	10981.9	11635.1	12095.6	12543.9	12040.8	12038.8	13790.5	15745.0	15980.3	11181.7
60°	9507.1	9679.5	10642.1	11663.5	13066.2	13507.5	13140.3	14485.3	16367.8	16775.5	12095.6
62.5°	6789.7	7073.7	8378.1	10009.1	12350.1	14479.2	15381.9	15587.8	17214.7	17696.5	13283.3
65°	3432.4	3647.4	4740.8	6705.6	9867.1	13844.2	17818.3	18001.8	18686.5	19114.5	15112.1
67.5°	2085.4	2166.5	2700.1	3729.6	6049.3	10784.1	18613.5	22025.6	21534.7	21761.9	17719.9
70°	1536.7	1596.5	1929.2	2476.9	3479.1	6328.2	16173.1	24897.1	24574.5	24549.2	19647.0
72°	1196.9	1240.5	1534.6	2001.2	2543.9	3796.5	11722.3	23837.1	25444.8	25317.0	19470.5
72.5°	1135.0	1173.5	1441.3	1883.6	2403.9	3441.5	10539.6	23122.0	25381.9	25324.1	19242.3
75°	893.6	921.0	1067.0	1456.5	1881.5	1952.5	5775.4	17918.7	22516.5	23452.7	17307.0
77.5°	739.4	743.5	820.6	1059.9	1466.7	1380.5	2837.0	12432.3	16123.4	17152.9	12259.9
80°	602.5	607.6	644.1	743.5	1109.6	1021.4	1347.0	7148.8	9027.3	9038.4	5830.2
82.5°	479.8	480.8	521.4	543.7	797.2	730.3	771.9	3356.3	3944.6	3794.5	2095.5
85°	337.8	330.7	509.2	446.3	521.4	468.6	426.0	1328.7	1631.0	1560.0	656.3
87.5°	112.6	116.6	226.2	289.1	304.3	265.7	189.7	509.2	615.7	610.6	207.9
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°	3624.1	3624.1	3624.1	3624.1	3624.1	3624.1	3624.1	3624.1	3624.1	3624.1	3624.1
2.5°	3642.4	3609.9	3562.2	3509.5	3467.9	3425.3	3393.9	3377.6	3359.4	3344.2	3362.4
5°	3680.9	3620.0	3518.6	3419.2	3346.2	3281.3	3234.6	3210.3	3188.0	3172.7	3174.8
7.5°	3743.8	3645.4	3475.0	3330.0	3228.5	3158.5	3110.9	3094.6	3080.4	3076.4	3081.5
10°	3810.7	3665.7	3417.2	3224.5	3108.8	3051.0	3029.7	3040.9	3051.0	3060.2	3070.3
12.5°	3886.8	3683.9	3333.0	3100.7	3002.3	2980.0	3001.3	3050.0	3085.5	3106.8	3120.0
15°	3986.2	3700.2	3235.6	2977.0	2911.0	2936.4	3008.4	3092.6	3154.5	3194.0	3200.1
17.5°	4077.5	3699.2	3110.9	2852.2	2837.0	2911.0	3019.6	3138.3	3221.4	3277.2	3288.4
20°	4171.8	3671.8	2965.8	2730.5	2761.9	2883.7	3024.6	3167.7	3268.1	3333.0	3348.2
22.5°	4260.1	3624.1	2806.6	2619.9	2699.1	2847.1	3005.4	3150.4	3250.8	3303.6	3319.8
25°	4319.9	3540.9	2645.3	2526.6	2643.3	2802.5	2942.5	3059.1	3134.2	3160.6	3164.6
27.5°	4350.3	3432.4	2493.2	2445.5	2585.5	2729.5	2825.8	2883.7	2905.0	2902.9	2898.9
30°	4354.4	3289.4	2362.3	2379.6	2518.5	2622.0	2667.6	2656.5	2629.1	2582.4	2586.5
32.5°	4341.2	3128.1	2252.8	2316.7	2433.3	2491.1	2493.2	2439.4	2366.4	2292.3	2272.0
35°	4345.3	2969.9	2156.4	2245.7	2329.9	2355.2	2331.9	2252.8	2153.4	2058.0	2037.7
37.5°	4389.9	2831.9	2073.2	2163.5	2215.2	2221.3	2187.9	2104.7	2031.6	1938.3	1930.2
40°	4496.4	2733.5	1994.1	2071.2	2100.6	2103.7	2056.0	1997.2	2003.2	1953.5	1952.5
42.5°	4688.1	2690.9	1924.1	1974.8	1993.1	1999.2	1962.7	1925.1	1977.9	1945.4	1934.3
45°	4935.6	2701.1	1865.3	1880.5	1914.0	1942.4	1920.1	1874.4	1894.7	1753.7	1707.1
47.5°	5221.6	2766.0	1818.6	1799.4	1857.2	1910.9	1876.5	1807.5	1735.5	1595.5	1569.1
50°	5556.3	2866.4	1776.0	1719.2	1795.3	1868.3	1833.9	1735.5	1626.9	1559.0	1549.9
52.5°	5905.3	2989.1	1733.4	1631.0	1717.2	1835.9	1818.6	1719.2	1585.4	1518.4	1506.2
55°	6300.8	3112.9	1679.7	1528.6	1633.0	1820.7	1811.5	1660.4	1553.9	1516.4	1507.3
57.5°	6792.8	3253.9	1608.7	1422.1	1553.9	1765.9	1737.5	1624.9	1521.5	1493.1	1490.0
60°	7433.8	3461.8	1506.2	1308.5	1457.6	1681.7	1675.6	1573.2	1469.7	1449.4	1445.4
62.5°	8395.4	3805.7	1365.3	1194.8	1350.0	1538.7	1594.5	1503.2	1415.0	1413.9	1416.0
65°	9886.4	4323.0	1212.1	1095.4	1241.5	1418.0	1500.2	1431.2	1359.2	1379.5	1382.5
67.5°	11614.8	4752.0	1062.0	998.1	1130.9	1303.4	1415.0	1359.2	1285.1	1337.9	1338.9
70°	12189.9	4368.6	930.1	901.7	1016.3	1192.8	1322.7	1280.0	1205.0	1257.7	1252.7
72°	11344.0	3526.7	844.9	828.7	930.1	1101.5	1240.5	1206.0	1132.0	1167.5	1154.3
72.5°	11077.2	3362.4	823.6	810.4	906.8	1078.2	1219.2	1187.7	1113.7	1144.1	1132.0
75°	9881.3	2920.2	708.0	711.0	791.2	964.6	1099.5	1089.4	1013.3	1016.3	1012.3
77.5°	7167.1	2141.2	596.4	616.7	673.5	848.0	978.8	972.7	889.5	874.3	871.3
80°	3325.9	1092.4	485.9	495.0	553.8	709.0	834.8	826.7	759.7	740.4	729.3
82.5°	1139.1	519.3	365.1	371.2	429.0	571.1	724.2	719.1	663.4	625.8	602.5
85°	406.7	258.6	255.6	249.5	306.3	449.3	630.9	603.5	521.4	444.3	442.2
87.5°	131.9	110.6	131.9	130.8	178.5	304.3	458.5	390.5	378.3	314.4	308.3
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)