

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: P318394

Luminaire Tested: **GAN-SA0A-740-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318394
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-SA0A-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46137 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

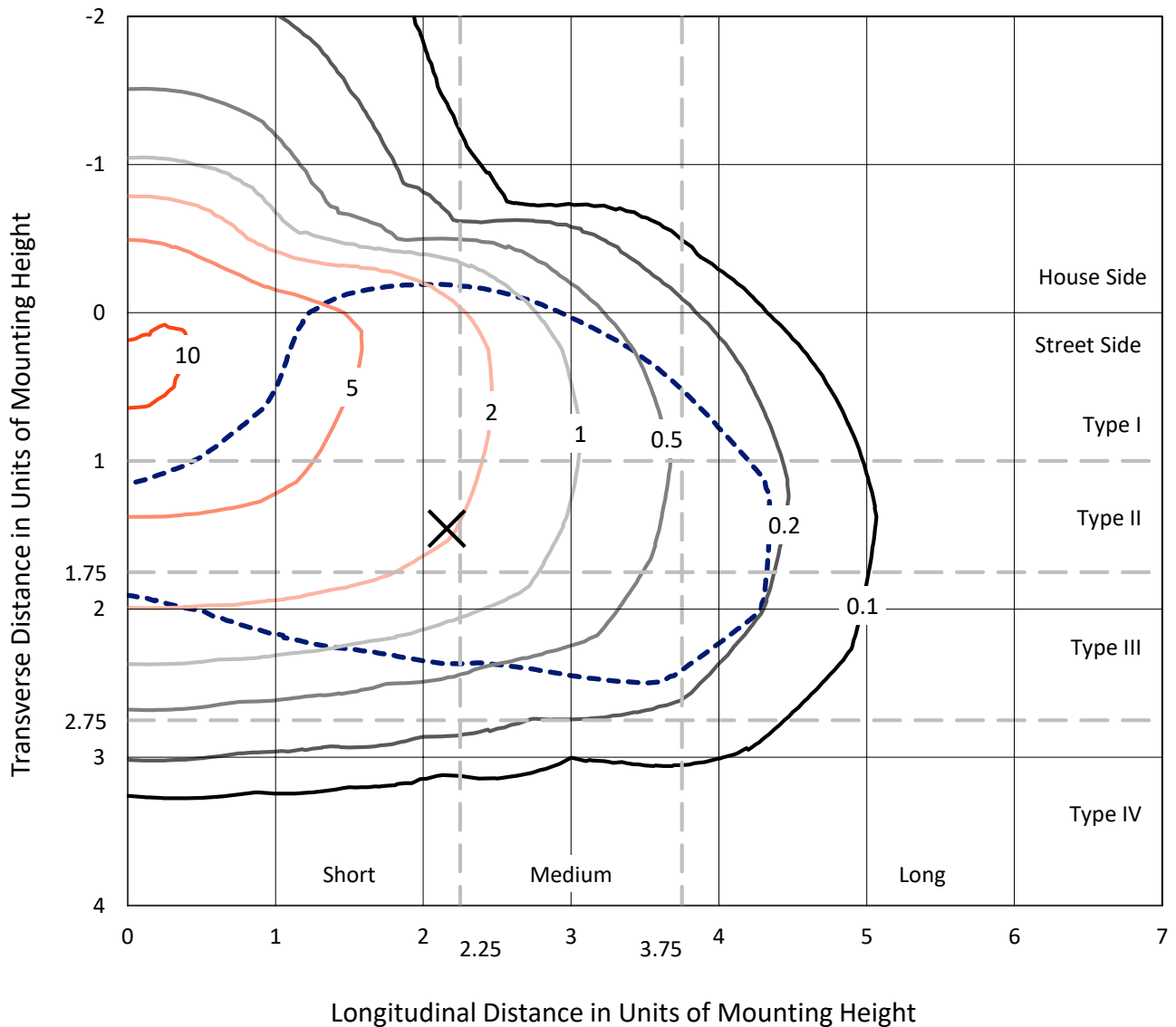
Input Watts (W): 323
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

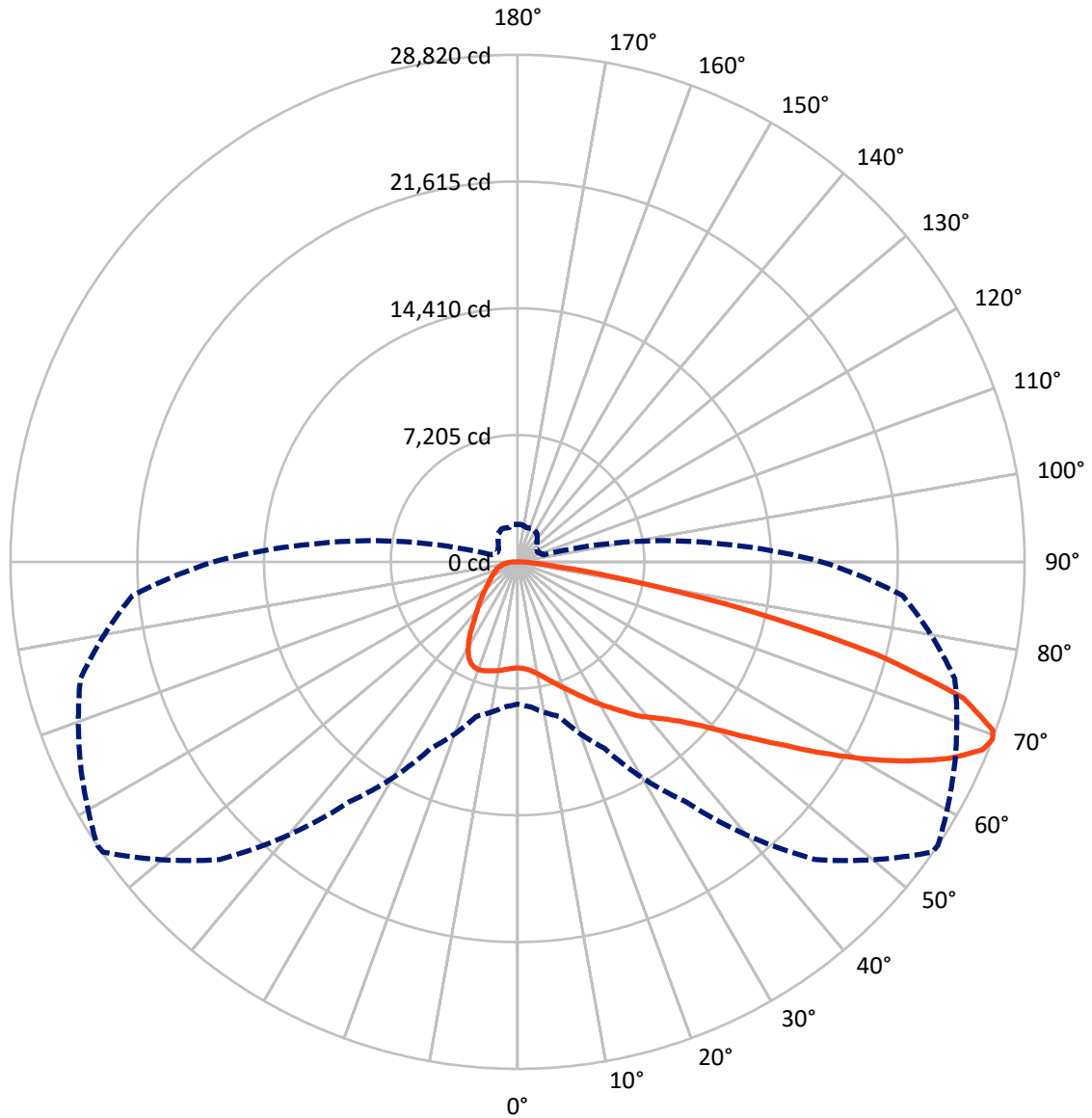
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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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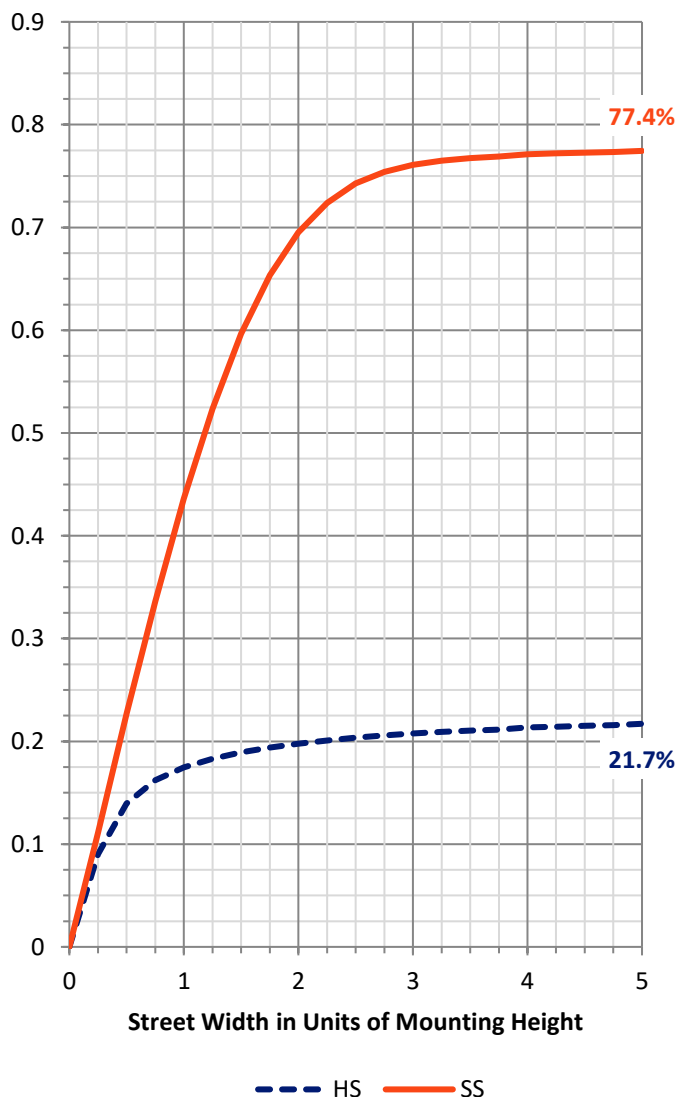
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10274.6	0.0	10274.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	35862.4	0.0	35862.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	46137.0	0.0	46137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.4	1.3
10°-20°	1905.0	4.1
20°-30°	3325.3	7.2
30°-40°	4776.7	10.4
40°-50°	6610.7	14.3
50°-60°	9685.6	21.0
60°-70°	11808.6	25.6
70°-80°	6528.5	14.2
80°-90°	904.2	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°	46137.0	100.0
0°-180°	46137.0	100.0

Coefficient of Utilization

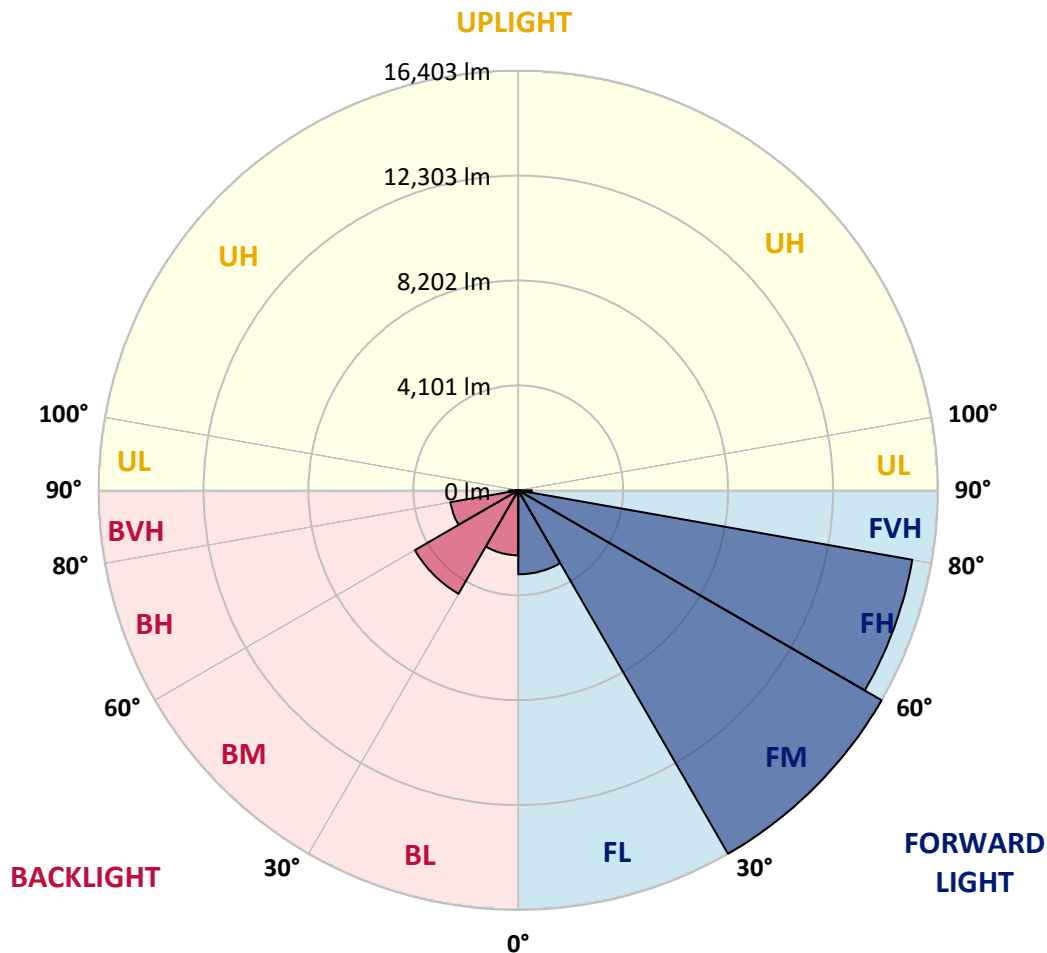


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3283.6	7.1			
FM (30°-60°)	16403.4	35.6			
FH (60°-80°)	15642.8	33.9			G5
FVH (80°-90°)	532.6	1.2			G4/750
BL (0°-30°)	2539.1	5.5	B4/5000		
BM (30°-60°)	4669.6	10.1	B3/5000		
BH (60°-80°)	2694.3	5.8	B4/5000		G4/5000
BVH (80°-90°)	371.6	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6031.7	6031.7	6031.7	6031.7	6031.7	6031.7	6031.7	6031.7	6031.7	6031.7	6031.7
2.5°	6069.9	6076.2	6071.5	6084.2	6069.9	6079.4	6071.5	6071.5	6066.7	6052.4	6036.5
5°	6165.2	6177.9	6170.0	6182.7	6165.2	6168.4	6154.1	6154.1	6139.8	6109.6	6077.8
7.5°	6314.6	6328.9	6322.6	6335.3	6311.5	6311.5	6292.4	6290.8	6262.2	6212.9	6176.4
10°	6492.6	6511.7	6505.4	6524.4	6505.4	6511.7	6492.6	6492.6	6454.5	6384.6	6338.5
12.5°	6751.7	6775.6	6758.1	6756.5	6748.5	6761.2	6745.4	6742.2	6707.2	6611.8	6548.3
15°	7098.2	7123.6	7087.1	7083.9	7039.4	7034.6	7034.6	7029.9	7007.6	6893.2	6788.3
17.5°	7497.1	7505.1	7473.3	7422.4	7365.2	7328.7	7323.9	7336.6	7336.6	7203.1	7036.2
20°	7888.1	7902.4	7877.0	7819.8	7746.7	7692.6	7654.5	7679.9	7678.3	7519.4	7282.6
22.5°	8314.1	8347.5	8309.3	8236.2	8150.4	8090.0	8023.2	8045.5	8047.1	7851.6	7524.2
25°	8865.6	8835.4	8811.6	8708.2	8585.9	8523.9	8461.9	8484.1	8477.8	8209.2	7773.7
27.5°	9353.5	9359.9	9328.1	9218.4	9077.0	8940.3	8937.1	8951.4	8927.6	8581.1	8008.9
30°	9920.9	9924.1	9879.6	9781.1	9626.9	9450.5	9409.2	9433.0	9382.1	8933.9	8256.9
32.5°	10485.2	10501.1	10451.8	10332.6	10208.6	9994.1	9911.4	9927.3	9800.2	9294.7	8512.7
35°	10979.5	11001.7	10985.8	10906.4	10771.3	10586.9	10488.4	10478.8	10321.5	9736.6	8851.3
37.5°	11483.3	11504.0	11486.5	11419.7	11365.7	11170.2	11117.8	11117.8	10844.4	10188.0	9282.0
40°	12001.5	12033.2	12012.6	11920.4	11874.3	11785.3	11659.7	11629.5	11333.9	10729.9	9984.5
42.5°	12483.0	12524.4	12607.0	12553.0	12459.2	12471.9	12219.2	12203.3	11987.1	11531.0	10866.6
45°	13166.5	13226.9	13366.7	13325.4	13306.3	13236.4	12936.0	12921.7	12839.1	12608.6	11961.7
47.5°	13911.9	13994.5	14247.3	14255.2	14460.2	14328.3	13919.8	13870.6	13889.6	13899.2	13298.4
50°	14598.5	14689.1	15103.9	15299.4	15782.6	15811.2	15158.0	15113.5	15188.2	15407.5	14856.0
52.5°	15146.8	15261.3	15779.4	16383.4	17211.5	17446.7	16682.2	16648.8	16704.4	17082.7	16617.0
55°	15549.0	15672.9	16237.2	17337.0	18659.4	19074.2	18436.9	18405.1	18440.1	18921.6	18532.2
57.5°	15642.7	15672.9	16491.5	17979.1	19881.6	20878.2	20584.1	20520.6	20348.9	20768.5	20646.1
60°	15202.5	15323.3	16281.7	18204.8	20827.3	22656.7	22828.3	22748.9	22267.3	22610.6	22512.1
62.5°	14309.2	14525.4	15498.1	17861.5	21197.6	24109.4	25029.6	24934.3	24104.6	24327.1	23853.5
65°	12850.2	12942.4	13964.3	16677.4	20727.2	25039.2	26992.5	26944.9	25900.6	25552.6	24101.4
67.5°	10240.4	10413.7	11281.5	14202.7	18802.4	24929.5	28510.4	28505.6	27073.6	26007.1	23222.5
69°	8090.0	8269.6	9096.1	11699.5	16637.7	23926.6	28764.7	28820.3	27404.2	25730.6	21966.9
70°	6449.7	6657.9	7225.3	9854.2	14716.1	22604.2	28553.3	28653.4	27340.6	25274.4	20808.2
72.5°	2744.9	2913.3	3317.0	5079.7	8968.9	16879.3	26107.2	26485.5	25867.3	23131.9	17197.2
75°	1198.4	1250.8	1433.6	2071.0	3981.4	9186.6	20452.2	21151.5	22117.9	19552.6	12810.4
77.5°	877.3	899.6	999.7	1215.9	1786.5	3469.6	13152.2	13559.0	15951.1	14228.2	7857.9
80°	678.7	694.6	772.4	893.2	1166.6	1403.4	5998.3	6348.0	8968.9	7308.0	3272.5
82.5°	540.4	551.5	605.6	658.0	805.8	850.3	1991.5	2209.2	3310.7	2018.5	866.2
85°	502.2	515.0	534.0	480.0	516.6	499.1	861.4	901.2	999.7	793.1	362.4
87.5°	227.3	268.6	529.3	373.5	275.0	219.3	352.8	368.7	414.8	416.4	160.5
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°	6031.7	6031.7	6031.7	6031.7	6031.7	6031.7	6031.7	6031.7	6031.7	6031.7	6031.7
2.5°	6046.0	6041.3	6049.2	6030.1	6054.0	6052.4	6044.4	6047.6	6063.5	6061.9	6063.5
5°	6082.6	6079.4	6088.9	6074.6	6103.2	6112.8	6114.4	6128.7	6146.2	6150.9	6150.9
7.5°	6174.8	6174.8	6179.5	6160.5	6179.5	6177.9	6170.0	6184.3	6201.8	6203.4	6201.8
10°	6333.7	6335.3	6327.3	6278.1	6262.2	6219.3	6179.5	6181.1	6203.4	6220.9	6225.6
12.5°	6534.0	6527.6	6492.6	6402.0	6335.3	6247.9	6206.6	6205.0	6227.2	6241.5	6246.3
15°	6762.8	6745.4	6654.8	6506.9	6389.3	6303.5	6236.7	6220.9	6208.1	6192.2	6193.8
17.5°	6979.0	6939.3	6788.3	6583.2	6459.3	6344.8	6216.1	6112.8	6041.3	5999.9	5987.2
20°	7198.3	7120.4	6902.7	6654.8	6497.4	6289.2	6041.3	5831.5	5701.1	5640.7	5629.6
22.5°	7398.6	7273.0	7009.2	6729.5	6467.2	6101.7	5712.3	5407.1	5225.9	5144.8	5151.2
25°	7594.1	7419.3	7120.4	6781.9	6314.6	5771.1	5254.5	4879.4	4669.6	4579.0	4575.8
27.5°	7765.7	7567.1	7241.2	6739.0	6030.1	5300.6	4712.5	4347.0	4172.1	4094.3	4081.5
30°	7962.8	7753.0	7401.8	6575.3	5613.7	4757.0	4183.3	3925.8	3801.8	3723.9	3709.6
32.5°	8202.8	8005.7	7533.7	6278.1	5081.3	4189.6	3770.0	3590.4	3477.6	3390.2	3374.3
35°	8552.5	8339.5	7567.1	5852.1	4496.4	3741.4	3466.4	3282.1	3129.5	3016.7	3005.5
37.5°	8991.2	8757.5	7490.8	5300.6	3929.0	3450.6	3213.7	2986.5	2787.8	2628.8	2603.4
40°	9623.7	9270.9	7279.4	4664.8	3511.0	3226.5	2967.4	2708.3	2462.0	2276.0	2239.4
42.5°	10383.5	9873.3	6955.2	4032.3	3204.2	2999.2	2722.6	2401.6	2166.3	2034.4	2015.3
45°	11349.8	10499.5	6505.4	3479.2	2902.2	2771.9	2458.8	2163.2	2016.9	1920.0	1904.1
47.5°	12452.8	11202.0	6033.3	3029.4	2646.3	2558.9	2247.4	2056.7	1940.6	1864.3	1850.0
50°	13808.6	11995.1	5532.7	2660.6	2388.8	2303.0	2147.3	1997.9	1905.7	1846.9	1832.6
52.5°	15337.6	12889.9	5171.9	2369.8	2175.9	2113.9	2094.8	1966.1	1891.4	1846.9	1832.6
55°	16984.2	13800.6	4782.5	2125.0	1991.5	2009.0	2059.8	1969.2	1918.4	1864.3	1843.7
57.5°	18632.4	14741.6	4348.6	1918.4	1845.3	1931.1	2036.0	1975.6	1932.7	1880.2	1861.2
60°	19935.7	15337.6	3676.2	1745.1	1729.3	1845.3	1978.8	1927.9	1872.3	1873.9	1870.7
62.5°	20544.4	15305.8	2934.0	1591.0	1613.2	1729.3	1886.6	1853.2	1807.1	1869.1	1873.9
65°	20202.7	14542.9	2283.9	1451.1	1489.3	1608.5	1791.2	1816.7	1832.6	1951.8	1967.7
67.5°	18769.1	13058.4	1769.0	1328.7	1376.4	1525.8	1800.8	1978.8	1999.4	2125.0	2123.4
69°	17286.2	11666.1	1536.9	1265.2	1320.8	1546.5	1924.7	2082.1	2004.2	2137.7	2118.7
70°	16043.3	10564.6	1413.0	1222.2	1295.3	1583.0	2007.4	2080.5	1980.4	2094.8	2063.0
72.5°	12355.9	7600.4	1198.4	1142.8	1209.5	1514.7	2031.2	2034.4	1924.7	1947.0	1893.0
75°	8474.6	4803.1	1045.8	1034.7	1079.2	1365.3	1954.9	1943.8	1780.1	1748.3	1703.8
77.5°	4672.8	2439.7	888.5	931.4	961.6	1209.5	1776.9	1761.0	1625.9	1559.2	1543.3
80°	1802.4	1068.1	750.2	828.1	847.1	1047.4	1557.6	1543.3	1430.4	1344.6	1320.8
82.5°	680.3	559.5	619.9	716.8	710.5	864.6	1319.2	1311.2	1201.6	1076.0	1037.9
85°	314.7	335.4	491.1	591.3	545.2	640.5	1055.4	1069.7	936.1	786.7	786.7
87.5°	133.5	187.5	348.1	446.6	367.1	432.3	774.0	739.1	678.7	470.5	441.8
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)