

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: P318442

Luminaire Tested: **GAN-SA8B-750-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318442
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-SA8B-750-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45808 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

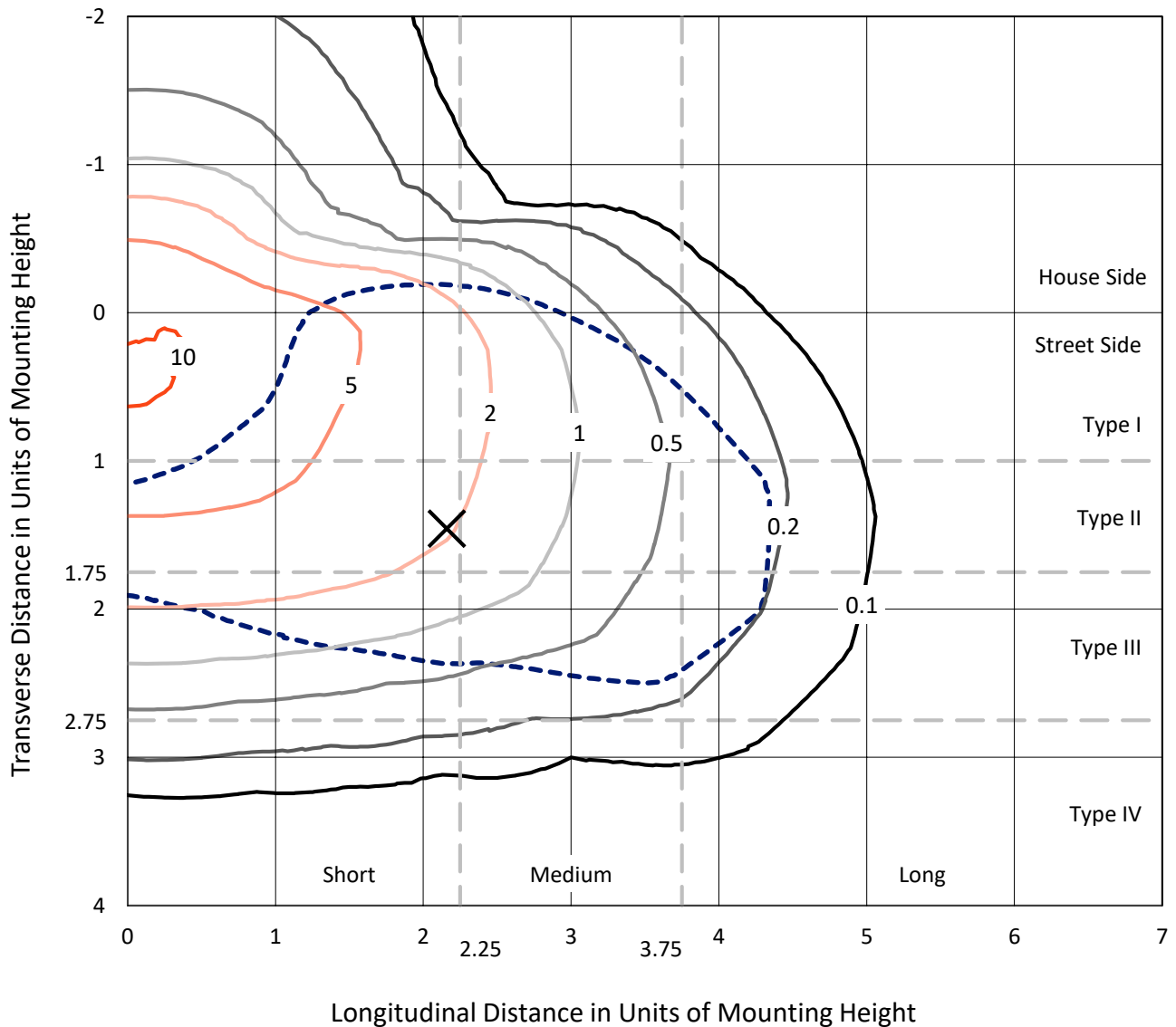
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

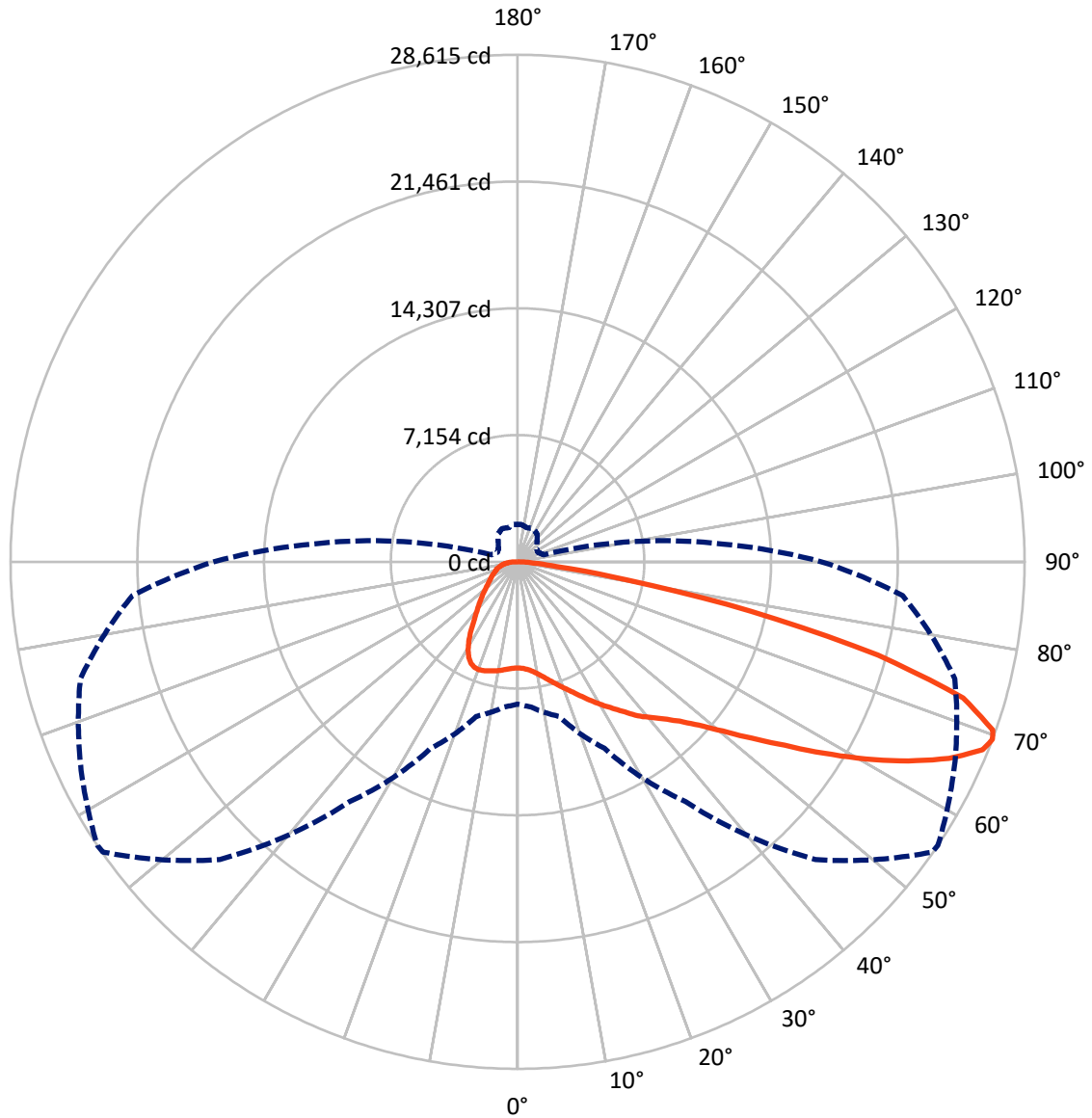
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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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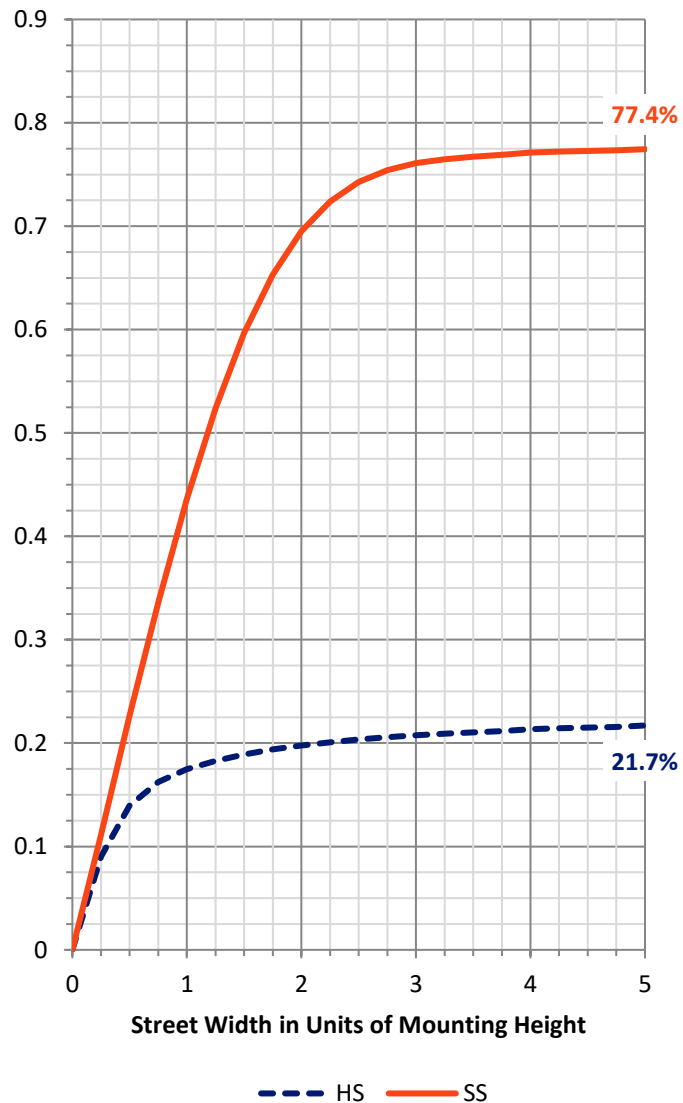
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10201.4	0.0	10201.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	35606.6	0.0	35606.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	45808.0	0.0	45808.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.2	1.3
10°-20°	1891.4	4.1
20°-30°	3301.6	7.2
30°-40°	4742.6	10.4
40°-50°	6563.6	14.3
50°-60°	9616.5	21.0
60°-70°	11724.4	25.6
70°-80°	6482.0	14.2
80°-90°	897.8	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°	45808.0	100.0
0°-180°	45808.0	100.0

Coefficient of Utilization

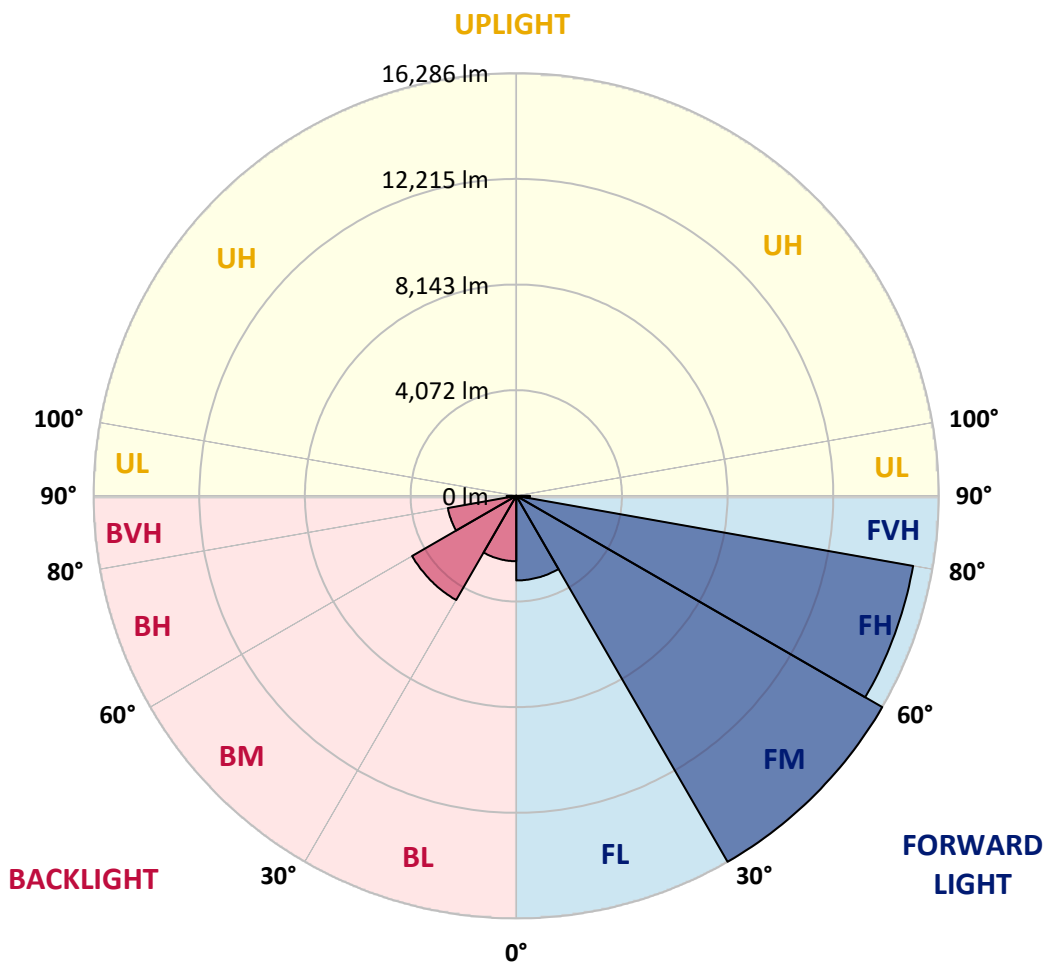


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3260.2	7.1			
FM (30°-60°)	16286.4	35.6			
FH (60°-80°)	15531.2	33.9			G5
FVH (80°-90°)	528.8	1.2			G4/750
BL (0°-30°)	2521.0	5.5	B4/5000		
BM (30°-60°)	4636.3	10.1	B3/5000		
BH (60°-80°)	2675.1	5.8	B4/5000		G4/5000
BVH (80°-90°)	368.9	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°	5988.7	5988.7	5988.7	5988.7	5988.7	5988.7	5988.7	5988.7	5988.7	5988.7	5988.7
2.5°	6026.6	6032.9	6028.2	6040.8	6026.6	6036.0	6028.2	6028.2	6023.4	6009.2	5993.4
5°	6121.3	6133.9	6126.0	6138.6	6121.3	6124.4	6110.2	6110.2	6096.0	6066.0	6034.5
7.5°	6269.6	6283.8	6277.5	6290.1	6266.4	6266.4	6247.5	6245.9	6217.5	6168.6	6132.3
10°	6446.3	6465.3	6459.0	6477.9	6459.0	6465.3	6446.3	6446.3	6408.5	6339.0	6293.3
12.5°	6703.6	6727.2	6709.9	6708.3	6700.4	6713.0	6697.3	6694.1	6659.4	6564.7	6501.6
15°	7047.6	7072.8	7036.5	7033.4	6989.2	6984.5	6984.5	6979.7	6957.6	6844.0	6739.9
17.5°	7443.7	7451.6	7420.0	7369.5	7312.7	7276.4	7271.7	7284.3	7284.3	7151.7	6986.0
20°	7831.9	7846.1	7820.8	7764.0	7691.4	7637.8	7599.9	7625.1	7623.6	7465.8	7230.6
22.5°	8254.8	8287.9	8250.1	8177.5	8092.2	8032.3	7966.0	7988.1	7989.7	7795.6	7470.5
25°	8802.4	8772.4	8748.7	8646.1	8524.6	8463.1	8401.5	8423.6	8417.3	8150.6	7718.3
27.5°	9286.8	9293.1	9261.6	9152.7	9012.3	8876.5	8873.4	8887.6	8863.9	8519.9	7951.8
30°	9850.2	9853.4	9809.2	9711.3	9558.3	9383.1	9342.1	9365.7	9315.2	8870.2	8198.0
32.5°	10410.4	10426.2	10377.3	10258.9	10135.8	9922.8	9840.7	9856.5	9730.3	9228.4	8452.0
35°	10901.2	10923.3	10907.5	10828.6	10694.5	10511.4	10413.6	10404.1	10247.9	9667.1	8788.2
37.5°	11401.4	11421.9	11404.6	11338.3	11284.6	11090.5	11038.5	11038.5	10767.0	10115.3	9215.8
40°	11915.9	11947.4	11926.9	11835.4	11789.6	11701.3	11576.6	11546.6	11253.1	10653.4	9913.3
42.5°	12394.0	12435.0	12517.1	12463.5	12370.3	12383.0	12132.1	12116.3	11901.7	11448.8	10789.1
45°	13072.6	13132.5	13271.4	13230.4	13211.4	13142.0	12843.8	12829.6	12747.5	12518.7	11876.4
47.5°	13812.7	13894.7	14145.7	14153.5	14357.1	14226.1	13820.6	13771.7	13790.6	13800.1	13203.6
50°	14494.4	14584.4	14996.2	15190.3	15670.1	15698.5	15049.9	15005.7	15079.9	15297.6	14750.0
52.5°	15038.8	15152.5	15666.9	16266.6	17088.7	17322.3	16563.2	16530.1	16585.3	16960.9	16498.5
55°	15438.1	15561.2	16121.4	17213.4	18526.3	18938.2	18305.4	18273.8	18308.6	18786.7	18400.1
57.5°	15531.2	15561.2	16373.9	17850.9	19739.8	20729.3	20437.3	20374.2	20203.8	20620.4	20498.9
60°	15094.1	15214.0	16165.6	18075.0	20678.8	22495.1	22665.6	22586.7	22108.5	22449.4	22351.5
62.5°	14207.2	14421.8	15387.6	17734.1	21046.5	23937.5	24851.2	24756.5	23932.7	24153.7	23683.4
65°	12758.5	12850.1	13864.8	16558.5	20579.4	24860.6	26800.1	26752.7	25715.9	25370.3	23929.6
67.5°	10167.4	10339.4	11201.0	14101.5	18668.4	24751.7	28307.1	28302.4	26880.5	25821.7	23056.9
69°	8032.3	8210.6	9031.2	11616.0	16519.0	23756.0	28559.6	28614.8	27208.8	25547.1	21810.3
70°	6403.7	6610.5	7173.8	9783.9	14611.2	22443.1	28349.7	28449.1	27145.6	25094.2	20659.9
72.5°	2725.3	2892.6	3293.4	5043.5	8904.9	16758.9	25921.1	26296.7	25682.8	22967.0	17074.5
75°	1189.9	1241.9	1423.4	2056.2	3953.0	9121.1	20306.4	21000.7	21960.2	19413.2	12719.1
77.5°	871.1	893.2	992.6	1207.2	1773.7	3444.9	13058.4	13462.4	15837.3	14126.7	7801.9
80°	673.8	689.6	766.9	886.9	1158.3	1393.4	5955.6	6302.7	8904.9	7255.9	3249.2
82.5°	536.5	547.6	601.2	653.3	800.1	844.3	1977.3	2193.5	3287.1	2004.1	860.0
85°	498.7	511.3	530.2	476.6	512.9	495.5	855.3	894.8	992.6	787.4	359.8
87.5°	225.7	266.7	525.5	370.8	273.0	217.8	350.3	366.1	411.9	413.4	159.4
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°	5988.7	5988.7	5988.7	5988.7	5988.7	5988.7	5988.7	5988.7	5988.7	5988.7	5988.7
2.5°	6002.9	5998.2	6006.1	5987.1	6010.8	6009.2	6001.3	6004.5	6020.3	6018.7	6020.3
5°	6039.2	6036.0	6045.5	6031.3	6059.7	6069.2	6070.8	6085.0	6102.3	6107.1	6107.1
7.5°	6130.7	6130.7	6135.5	6116.5	6135.5	6133.9	6126.0	6140.2	6157.6	6159.1	6157.6
10°	6288.5	6290.1	6282.2	6233.3	6217.5	6174.9	6135.5	6137.0	6159.1	6176.5	6181.2
12.5°	6487.4	6481.1	6446.3	6356.4	6290.1	6203.3	6162.3	6160.7	6182.8	6197.0	6201.7
15°	6714.6	6697.3	6607.3	6460.5	6343.8	6258.6	6192.3	6176.5	6163.9	6148.1	6149.7
17.5°	6929.2	6889.8	6739.9	6536.3	6413.2	6299.6	6171.8	6069.2	5998.2	5957.1	5944.5
20°	7147.0	7069.7	6853.5	6607.3	6451.1	6244.4	5998.2	5789.9	5660.5	5600.5	5589.5
22.5°	7345.8	7221.2	6959.2	6681.5	6421.1	6058.1	5671.5	5368.5	5188.6	5108.2	5114.5
25°	7539.9	7366.3	7069.7	6733.5	6269.6	5729.9	5217.0	4844.6	4636.3	4546.4	4543.2
27.5°	7710.4	7513.1	7189.6	6690.9	5987.1	5262.8	4678.9	4316.0	4142.4	4065.1	4052.4
30°	7906.0	7697.7	7349.0	6528.4	5573.7	4723.1	4153.4	3897.8	3774.7	3697.4	3683.2
32.5°	8144.3	7948.6	7480.0	6233.3	5045.0	4159.7	3743.1	3564.8	3452.8	3366.0	3350.2
35°	8491.5	8280.0	7513.1	5810.4	4464.3	3714.7	3441.7	3258.7	3107.2	2995.1	2984.1
37.5°	8927.0	8695.1	7437.4	5262.8	3900.9	3426.0	3190.8	2965.2	2767.9	2610.1	2584.8
40°	9555.1	9204.8	7227.5	4631.6	3485.9	3203.4	2946.2	2689.0	2444.4	2259.8	2223.5
42.5°	10309.4	9802.9	6905.6	4003.5	3181.4	2977.8	2703.2	2384.4	2150.9	2019.9	2001.0
45°	11268.9	10424.6	6459.0	3454.4	2881.5	2752.1	2441.2	2147.7	2002.5	1906.3	1890.5
47.5°	12364.0	11122.1	5990.3	3007.8	2627.5	2540.7	2231.4	2042.0	1926.8	1851.1	1836.9
50°	13710.1	11909.6	5493.2	2641.7	2371.8	2286.6	2131.9	1983.6	1892.1	1833.7	1819.5
52.5°	15228.2	12798.0	5135.0	2352.9	2160.4	2098.8	2079.9	1952.1	1877.9	1833.7	1819.5
55°	16863.1	13702.2	4748.4	2109.9	1977.3	1994.7	2045.2	1955.2	1904.7	1851.1	1830.5
57.5°	18499.5	14636.4	4317.5	1904.7	1832.1	1917.3	2021.5	1961.5	1918.9	1866.8	1847.9
60°	19793.5	15228.2	3650.0	1732.7	1716.9	1832.1	1964.7	1914.2	1858.9	1860.5	1857.4
62.5°	20397.9	15196.6	2913.1	1579.6	1601.7	1716.9	1873.1	1840.0	1794.2	1855.8	1860.5
65°	20058.6	14439.2	2267.7	1440.8	1478.6	1597.0	1778.5	1803.7	1819.5	1937.8	1953.6
67.5°	18635.2	12965.3	1756.4	1319.3	1366.6	1514.9	1787.9	1964.7	1985.2	2109.9	2108.3
69°	17162.9	11582.9	1526.0	1256.1	1311.4	1535.4	1911.0	2067.2	1989.9	2122.5	2103.5
70°	15928.9	10489.3	1402.9	1213.5	1286.1	1571.7	1993.1	2065.7	1966.3	2079.9	2048.3
72.5°	12267.8	7546.2	1189.9	1134.6	1200.9	1503.9	2016.8	2019.9	1911.0	1933.1	1879.5
75°	8414.2	4768.9	1038.4	1027.3	1071.5	1355.5	1941.0	1930.0	1767.4	1735.9	1691.7
77.5°	4639.5	2422.3	882.1	924.7	954.7	1200.9	1764.3	1748.5	1614.3	1548.1	1532.3
80°	1789.5	1060.5	744.8	822.2	841.1	1039.9	1546.5	1532.3	1420.2	1335.0	1311.4
82.5°	675.4	555.5	615.4	711.7	705.4	858.5	1309.8	1301.9	1193.0	1068.3	1030.5
85°	312.5	333.0	487.6	587.0	541.3	636.0	1047.8	1062.0	929.5	781.1	781.1
87.5°	132.6	186.2	345.6	443.4	364.5	429.2	768.5	733.8	673.8	467.1	438.7
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)