

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: P319051

Luminaire Tested: **GAN-SA7C-740-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49681 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

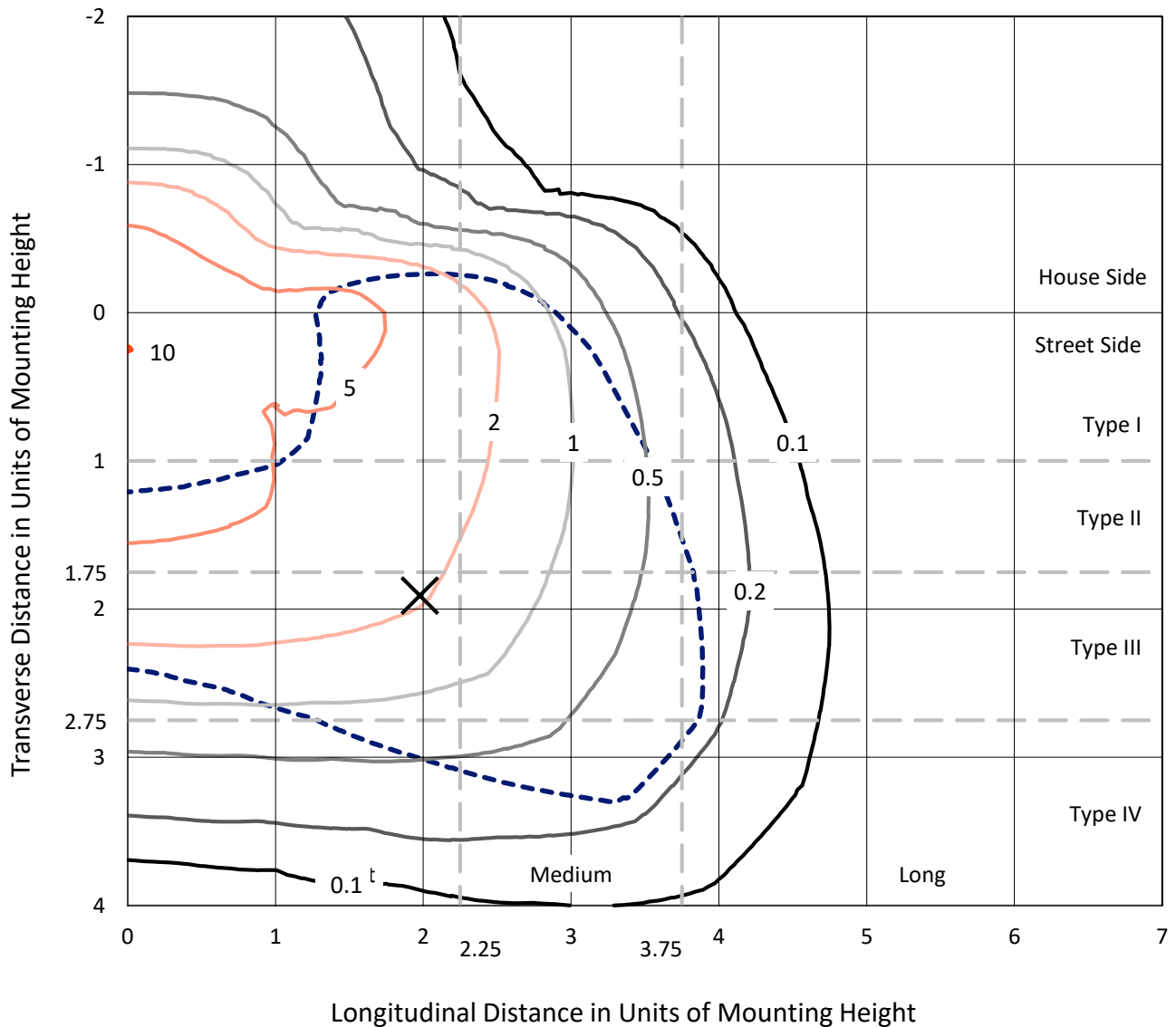
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

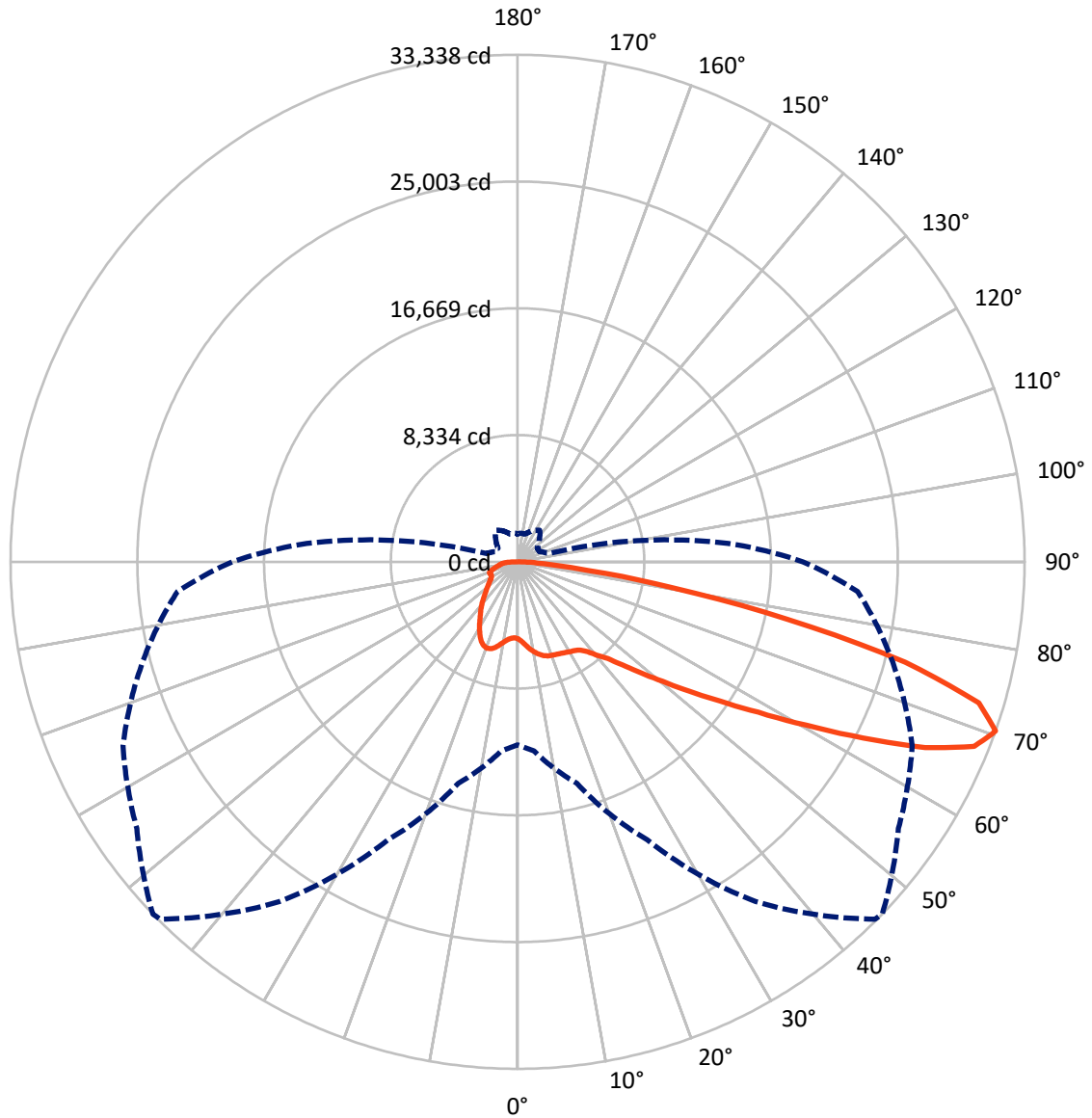
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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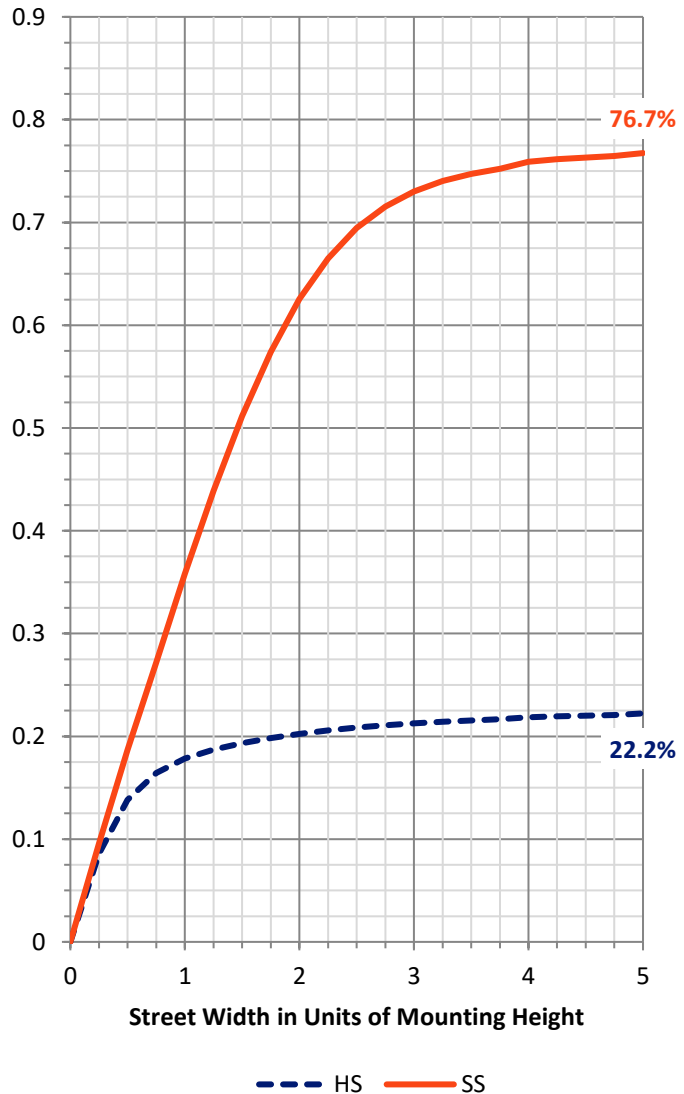
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11386.7	0.0	11386.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	38294.3	0.0	38294.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	49681.0	0.0	49681.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.0	1.0
10°-20°	1719.1	3.5
20°-30°	2866.4	5.8
30°-40°	4067.6	8.2
40°-50°	5983.2	12.0
50°-60°	10132.6	20.4
60°-70°	14383.0	29.0
70°-80°	8737.8	17.6
80°-90°	1275.2	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°	49681.0	100.0
0°-180°	49681.0	100.0

Coefficient of Utilization

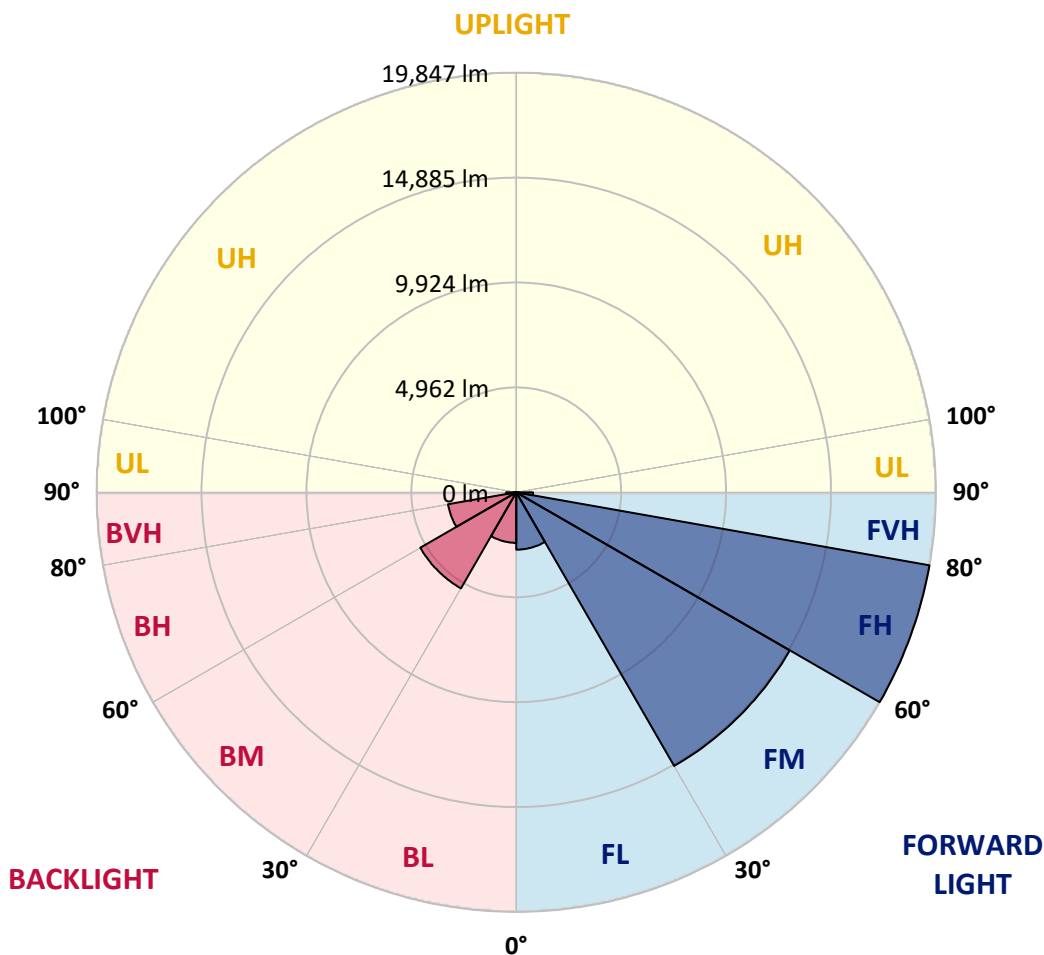


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2710.8	5.5			
FM (30°-60°)	14941.8	30.1			
FH (60°-80°)	19847.3	39.9			G5
FVH (80°-90°)	794.3	1.6			G5
BL (0°-30°)	2390.7	4.8	B3/2500		
BM (30°-60°)	5241.6	10.6	B4/8500		
BH (60°-80°)	3273.6	6.6	B4/5000		G4/5000
BVH (80°-90°)	480.8	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5061.5	5061.5	5061.5	5061.5	5061.5	5061.5	5061.5	5061.5	5061.5	5061.5	5061.5
2.5°	5314.9	5318.3	5325.1	5308.1	5260.4	5246.8	5241.7	5192.4	5160.1	5112.5	5071.7
5°	5739.9	5743.3	5733.1	5685.5	5580.1	5501.9	5495.1	5382.9	5280.8	5172.0	5090.4
7.5°	6183.7	6188.8	6156.5	6066.3	5918.4	5782.4	5773.9	5620.9	5466.2	5301.3	5178.8
10°	6576.4	6556.0	6503.3	6377.5	6202.4	6035.7	6028.9	5869.1	5690.6	5491.7	5328.5
12.5°	6838.2	6821.2	6753.2	6600.2	6408.1	6255.1	6241.5	6093.5	5920.1	5702.5	5507.0
15°	6982.8	6994.7	6902.8	6729.4	6542.4	6413.2	6401.3	6295.9	6141.2	5921.8	5697.4
17.5°	7001.5	7011.7	6923.3	6751.5	6598.5	6510.1	6505.0	6435.3	6323.1	6112.3	5877.6
20°	6892.6	6899.4	6826.3	6685.2	6584.9	6557.7	6556.0	6525.4	6442.1	6255.1	6027.2
22.5°	6734.5	6739.6	6686.9	6584.9	6550.9	6593.4	6605.3	6593.4	6533.9	6358.8	6144.6
25°	6695.4	6692.0	6637.6	6533.9	6562.8	6652.9	6668.2	6673.3	6632.5	6479.5	6294.2
27.5°	6884.1	6872.2	6768.5	6601.9	6620.6	6729.4	6749.8	6799.1	6773.6	6639.3	6464.2
30°	7429.9	7409.5	7197.0	6860.3	6768.5	6824.6	6850.1	6928.4	6933.5	6821.2	6690.3
32.5°	8351.4	8325.9	7945.1	7343.2	7018.5	6921.5	6945.4	7062.7	7125.6	7038.9	6897.7
35°	9516.1	9487.2	8987.3	8164.4	7436.7	7106.9	7123.9	7217.4	7343.2	7220.8	7033.8
37.5°	10730.0	10660.3	10179.1	9130.1	8101.5	7503.0	7503.0	7514.9	7574.4	7319.4	7193.6
40°	11937.2	11867.5	11432.2	10265.9	8961.8	8127.0	8087.9	7824.4	7776.8	7557.4	7514.9
42.5°	13059.3	13038.9	12782.2	11549.5	9971.7	8740.8	8686.4	8239.2	8249.4	8113.4	8115.1
45°	14252.9	14252.9	14043.7	12845.1	11148.3	9726.9	9672.5	9014.5	9116.5	9053.6	9204.9
47.5°	15227.1	15257.7	15228.8	14195.0	12516.9	10979.9	10881.3	10089.0	10374.7	10590.6	11031.0
50°	16221.7	16269.3	16274.4	15675.9	14171.2	12469.3	12357.1	11515.5	12153.1	12772.0	13637.4
52.5°	17665.2	17772.3	17345.5	17153.4	16197.9	14237.5	14127.0	13350.0	14414.4	15283.2	16774.3
55°	19003.2	18909.7	18605.4	18724.4	18367.4	16250.6	16167.3	15485.5	16934.1	18063.0	19999.6
57.5°	19727.5	19720.7	20026.8	20536.8	20706.8	18732.9	18663.2	18000.1	19775.1	20623.5	23027.6
60°	20577.6	20589.5	21347.8	22505.7	23206.1	21823.9	21793.3	21290.0	22534.6	23014.0	25402.8
62.5°	20696.6	20910.9	22216.6	24209.3	25545.6	25435.1	25503.1	24253.5	25003.3	24921.7	27176.1
65°	19328.0	19610.2	21973.5	24724.4	27871.5	29384.7	29447.6	27233.9	26950.0	26552.2	27810.3
67.5°	16522.6	16940.9	19508.2	23604.0	28638.3	32304.0	32392.4	29544.5	28565.2	27104.7	26283.5
70°	12023.9	12488.0	15072.4	20159.4	27271.3	33237.4	33337.7	30566.4	28626.4	25532.0	22437.7
72.5°	7263.3	7627.1	9757.5	14841.1	23017.4	31537.2	31715.7	29270.8	26135.6	21626.7	16568.5
75°	3189.6	3427.6	4718.1	8552.1	16478.4	26093.1	26315.8	25054.3	21235.6	15716.7	9793.2
77.5°	1358.5	1426.5	1934.8	3715.0	9315.4	17830.1	18136.1	18306.1	14407.6	8552.1	4138.3
80°	846.7	873.9	1094.9	1681.5	4359.3	10014.2	10344.1	10770.8	7154.5	3143.7	1445.2
82.5°	515.2	545.8	727.7	1016.7	2269.8	4539.6	4697.7	4998.6	2776.4	1358.5	748.1
85°	309.4	331.5	445.5	642.7	1292.2	1785.2	1783.5	1972.2	1307.5	873.9	394.4
87.5°	147.9	164.9	238.0	333.2	651.2	669.9	627.4	710.7	794.0	573.0	198.9
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°	5061.5	5061.5	5061.5	5061.5	5061.5	5061.5	5061.5	5061.5	5061.5	5061.5	5061.5
2.5°	5058.1	5051.3	5029.2	5012.2	5008.8	4998.6	4990.1	4995.2	5002.0	5003.7	5003.7
5°	5056.4	5037.7	5008.8	4996.9	5012.2	5032.6	5058.1	5092.1	5112.5	5127.8	5138.0
7.5°	5138.0	5102.3	5070.0	5063.2	5093.8	5148.2	5206.0	5277.4	5326.8	5360.8	5367.6
10°	5274.0	5229.8	5197.5	5204.3	5258.7	5337.0	5418.6	5510.4	5585.2	5631.1	5634.5
12.5°	5430.5	5388.0	5357.4	5386.3	5476.4	5571.6	5656.6	5736.5	5804.5	5850.4	5850.4
15°	5610.7	5580.1	5544.4	5610.7	5733.1	5818.1	5853.8	5892.9	5930.3	5964.3	5957.5
17.5°	5784.1	5755.2	5736.5	5814.7	5942.2	5981.3	5957.5	5928.6	5928.6	5947.3	5950.7
20°	5933.7	5908.2	5920.1	5996.6	6062.9	6022.1	5933.7	5841.9	5804.5	5814.7	5824.9
22.5°	6064.6	6052.7	6088.4	6124.2	6076.5	5933.7	5770.5	5646.4	5600.5	5597.1	5600.5
25°	6217.7	6216.0	6260.2	6195.6	5984.7	5721.2	5501.9	5381.2	5355.7	5376.1	5410.1
27.5°	6408.1	6426.8	6448.9	6212.6	5797.7	5399.9	5177.1	5093.8	5119.3	5168.6	5200.9
30°	6651.2	6702.2	6654.6	6170.1	5529.1	5032.6	4820.1	4796.3	4866.0	4935.7	4969.7
32.5°	6887.5	6967.5	6851.8	6059.5	5182.2	4643.3	4478.3	4471.5	4556.6	4624.6	4672.2
35°	7078.0	7236.1	6999.8	5840.2	4781.0	4284.5	4163.8	4117.9	4148.5	4228.4	4282.8
37.5°	7326.2	7589.7	7101.8	5505.3	4345.7	3988.7	3847.6	3742.2	3715.0	3747.3	3774.5
40°	7780.2	8128.7	7149.4	5037.7	3920.7	3692.9	3550.0	3395.3	3288.2	3210.0	3211.7
42.5°	8521.4	8830.9	7118.8	4469.8	3527.9	3403.8	3242.3	3063.8	2890.4	2713.5	2699.9
45°	9725.2	9874.8	7027.0	3868.0	3182.8	3101.2	2949.9	2771.3	2540.1	2339.5	2320.8
47.5°	11651.5	11320.0	6884.1	3342.6	2878.5	2844.4	2705.0	2499.3	2254.5	2093.0	2079.4
50°	14278.4	13406.1	6814.4	2924.4	2609.8	2620.0	2506.1	2288.5	2057.3	1938.2	1924.6
52.5°	17420.3	15835.7	6948.8	2601.3	2393.9	2429.6	2344.6	2140.6	1946.7	1853.2	1839.6
55°	20679.6	18352.1	7093.3	2366.7	2189.9	2259.6	2230.7	2062.4	1887.2	1800.5	1788.6
57.5°	23469.7	20230.8	6804.2	2176.3	2007.9	2116.8	2142.3	2013.0	1856.6	1778.4	1764.8
60°	25226.0	20987.4	6045.9	1997.7	1863.4	2002.8	2091.3	1999.4	1868.5	1861.7	1851.5
62.5°	26059.1	20921.1	4908.5	1856.6	1773.3	1953.5	2128.7	2076.0	2004.5	2065.8	2070.9
65°	25685.1	19921.3	3655.4	1763.1	1708.7	1972.2	2240.9	2220.5	2043.7	2104.9	2113.4
67.5°	23223.2	17536.0	2706.7	1681.5	1637.3	2024.9	2444.9	2268.1	1967.1	2011.3	1984.1
70°	18770.3	13902.6	2087.9	1589.7	1564.2	2018.1	2536.7	2239.2	1883.8	1894.0	1820.9
72.5°	12943.7	9480.4	1698.5	1504.7	1458.8	1839.6	2472.1	2167.8	1814.1	1735.9	1639.0
75°	7038.9	5088.7	1443.5	1416.3	1273.5	1615.2	2353.1	2116.8	1751.2	1647.5	1593.1
77.5°	2769.6	2111.7	1253.1	1295.6	1113.6	1426.5	2220.5	2019.8	1664.5	1528.5	1501.3
80°	1130.6	1077.9	1038.8	1120.4	957.2	1248.0	2060.7	1905.9	1560.8	1418.0	1363.6
82.5°	641.0	669.9	807.6	884.1	777.0	1149.3	1984.1	1814.1	1436.7	1270.1	1205.4
85°	328.1	392.7	562.8	634.2	571.3	977.6	1827.7	1588.0	1152.7	972.5	977.6
87.5°	158.1	219.3	355.3	397.8	370.6	707.3	1365.3	1151.0	897.7	710.7	688.6
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)