

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: P318140

Luminaire Tested: **GAN-SA6D-750-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318140
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-SA6D-750-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45540 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

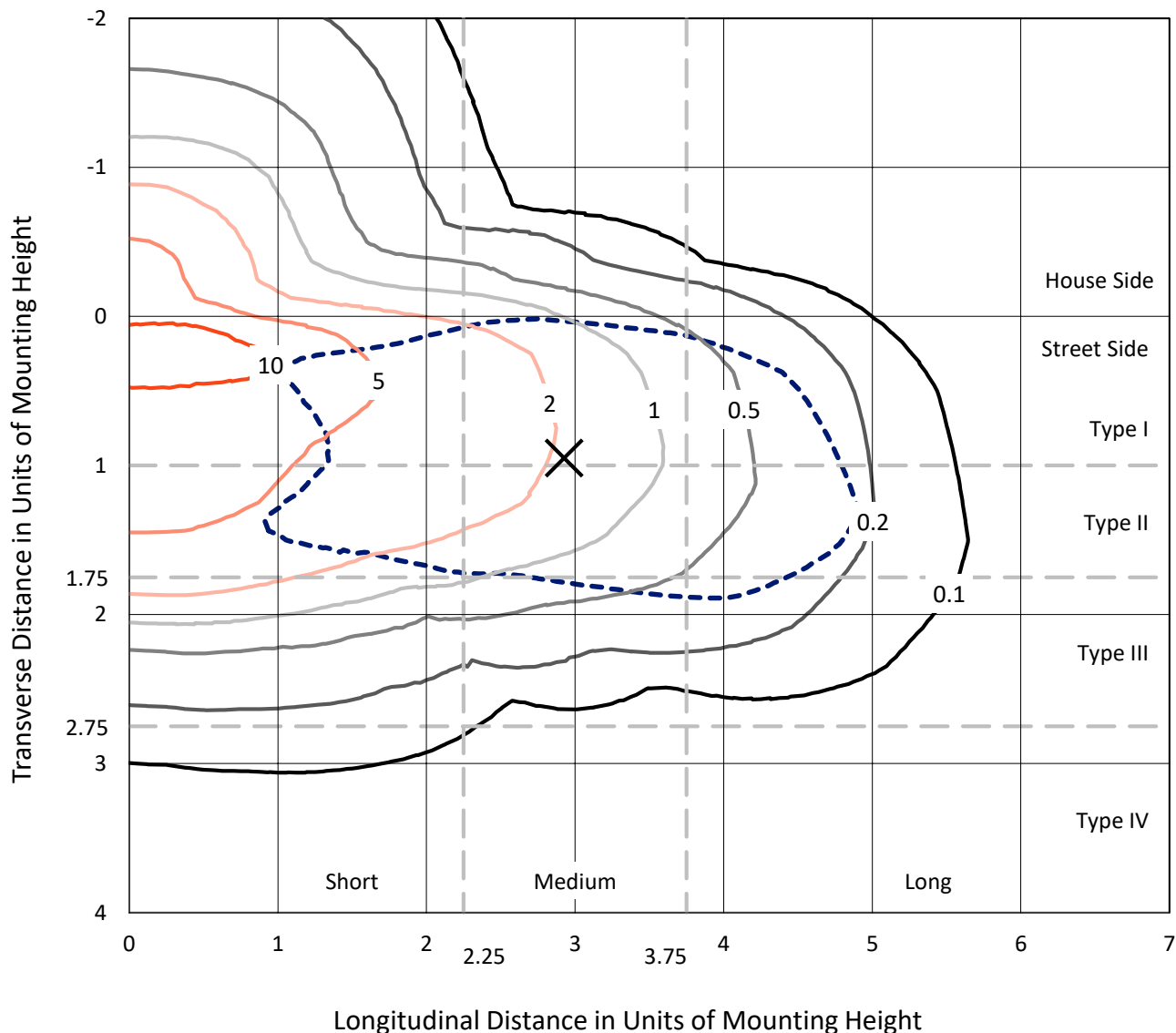
Input Watts (W): 382
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

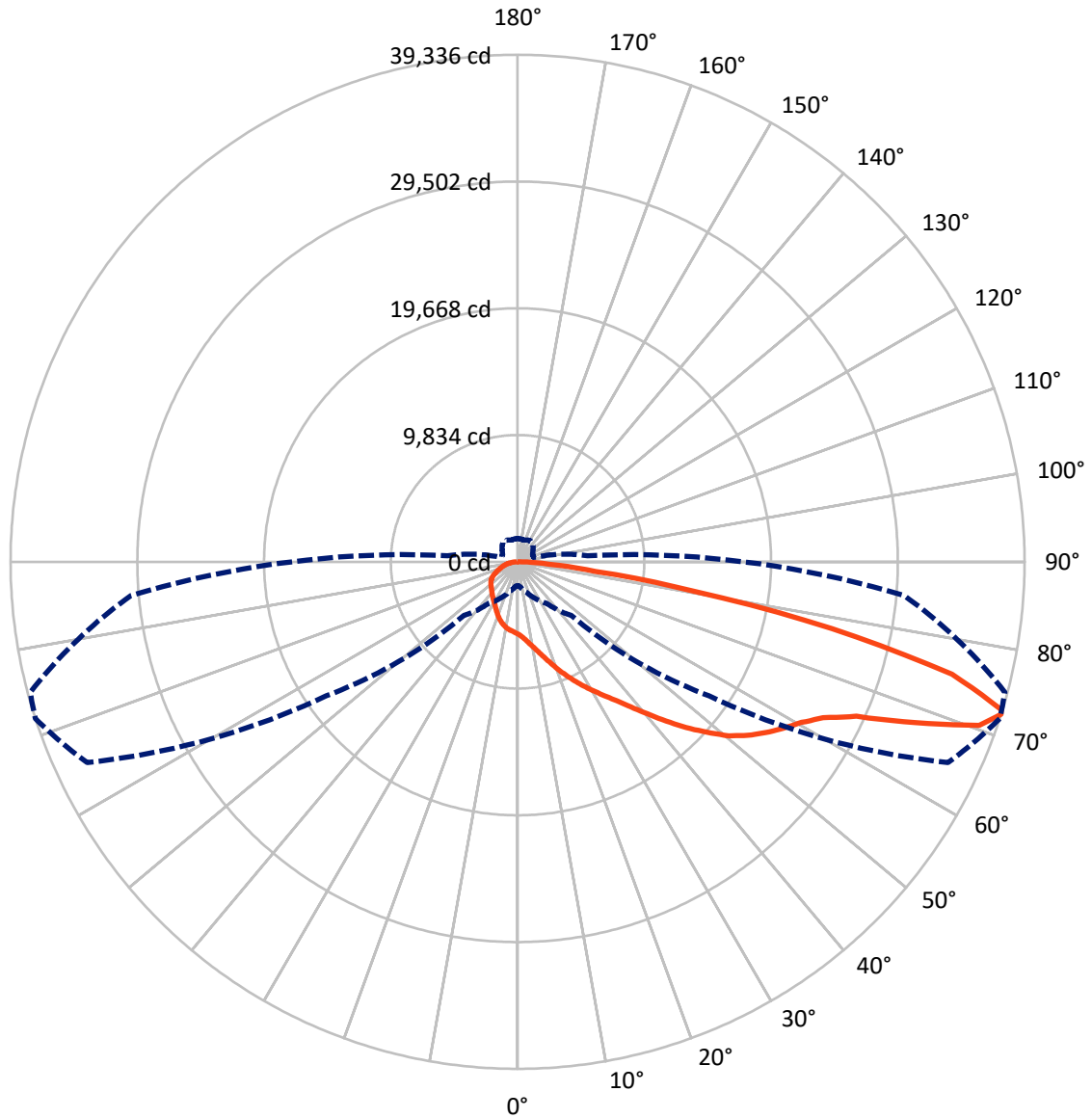
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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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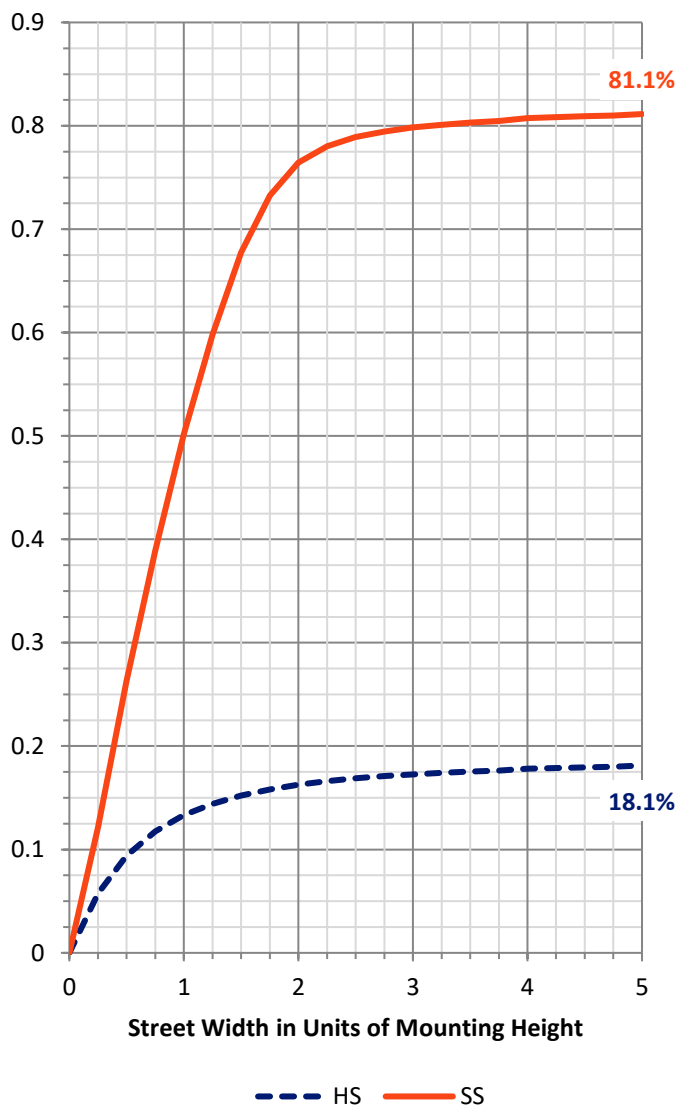
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8448.0	0.0	8448.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	37092.0	0.0	37092.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	45540.0	0.0	45540.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.4	1.2
10°-20°	1814.2	4.0
20°-30°	3179.0	7.0
30°-40°	4713.4	10.4
40°-50°	6893.8	15.1
50°-60°	9485.8	20.8
60°-70°	10560.5	23.2
70°-80°	7155.8	15.7
80°-90°	1176.1	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°	45540.0	100.0
0°-180°	45540.0	100.0

Coefficient of Utilization

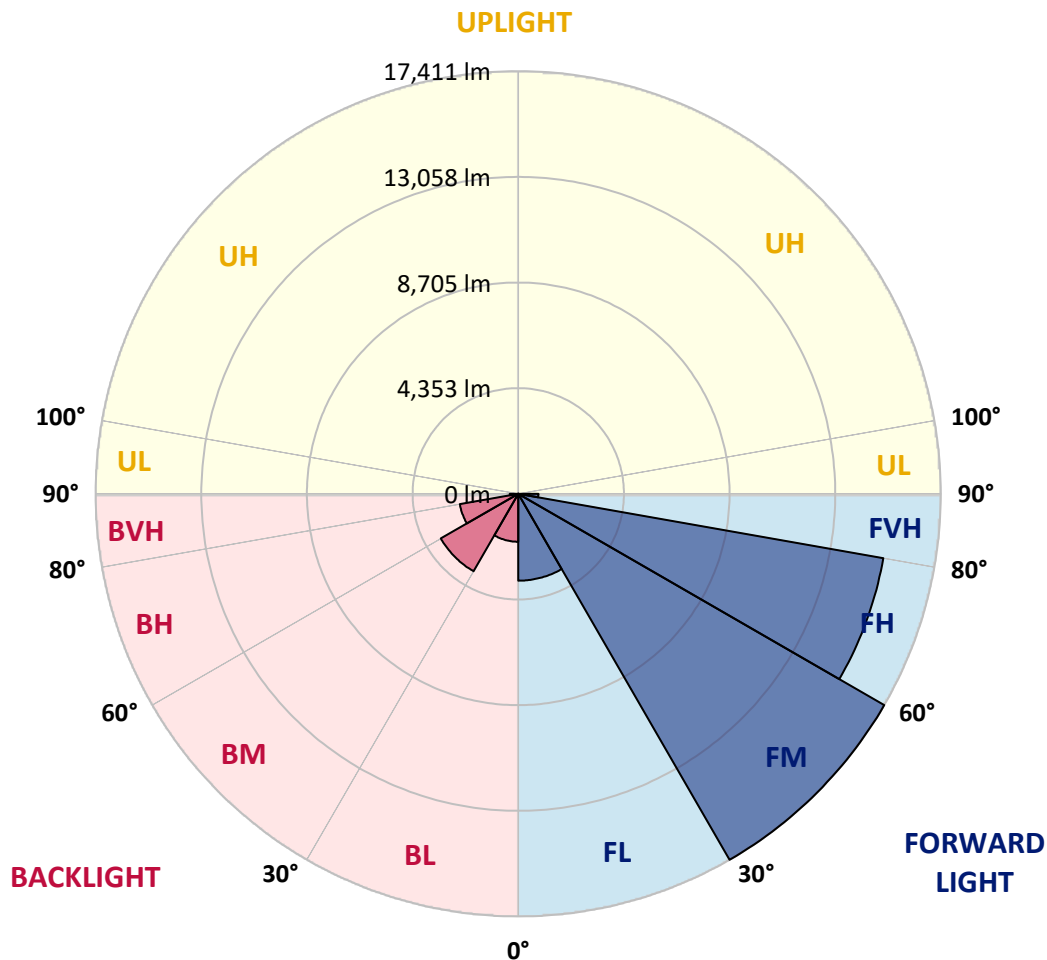


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3579.7	7.9			
FM (30°-60°)	17410.5	38.2			
FH (60°-80°)	15272.2	33.5			G5
FVH (80°-90°)	829.6	1.8			G5
BL (0°-30°)	1974.8	4.3	B3/2500		
BM (30°-60°)	3682.5	8.1	B3/5000		
BH (60°-80°)	2444.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	346.5	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5602.6	5602.6	5602.6	5602.6	5602.6	5602.6	5602.6	5602.6	5602.6	5602.6	5602.6
2.5°	6189.1	6179.6	6146.7	6146.7	6084.0	6030.7	5930.3	5862.9	5782.9	5754.7	5660.6
5°	6788.0	6791.2	6750.4	6722.2	6629.7	6516.8	6345.9	6190.6	6035.4	5972.7	5779.8
7.5°	7291.4	7285.1	7274.1	7250.6	7164.4	7048.3	6817.8	6587.3	6358.4	6264.3	5931.9
10°	7614.4	7628.5	7637.9	7648.9	7612.8	7529.7	7311.8	7031.1	6731.6	6603.0	6113.8
12.5°	7777.5	7802.6	7846.5	7921.7	7981.3	7971.9	7813.5	7515.6	7159.7	6998.2	6341.2
15°	7873.1	7906.1	7975.1	8109.9	8277.7	8373.3	8331.0	8061.3	7664.6	7465.4	6618.7
17.5°	7932.7	7959.4	8066.0	8246.3	8495.6	8749.7	8861.0	8635.2	8235.3	8008.0	6937.0
20°	7973.5	7993.9	8127.2	8338.8	8661.9	9066.4	9376.9	9320.4	8864.1	8569.3	7269.4
22.5°	8064.4	8081.7	8208.7	8421.9	8779.5	9301.6	9873.9	9958.6	9527.4	9193.4	7625.4
25°	8318.5	8318.5	8425.1	8574.0	8909.6	9505.5	10294.2	10668.9	10204.8	9815.9	7954.7
27.5°	8803.0	8798.3	8837.5	8889.2	9143.2	9712.4	10668.9	11296.2	10907.3	10482.3	8274.5
30°	9376.9	9408.2	9412.9	9387.9	9507.0	9971.2	11015.5	11957.9	11614.5	11156.6	8602.3
32.5°	10115.4	10135.8	10112.3	10029.2	10011.9	10338.1	11355.7	12650.9	12379.7	11860.7	8901.8
35°	11053.1	11013.9	10940.2	10770.9	10609.4	10828.9	11744.6	13344.0	13239.0	12712.1	9314.2
37.5°	12058.2	12059.8	11968.9	11584.7	11362.0	11456.1	12280.9	14129.6	14278.6	13725.1	9842.6
40°	12864.2	12906.5	12963.0	12458.1	12169.6	12299.7	12963.0	15040.6	15507.9	14926.2	10531.0
42.5°	13427.1	13475.7	13635.7	13318.9	13019.4	13260.9	13765.8	16012.8	16887.8	16312.3	11336.9
45°	14023.0	14049.6	14162.5	14026.1	13834.8	14378.9	14670.6	17019.5	18347.6	17789.4	12238.6
47.5°	14650.2	14678.4	14794.5	14703.5	14603.2	15423.2	15614.5	17968.2	19746.3	19412.3	13201.3
50°	15424.8	15443.6	15553.4	15388.7	15420.1	16210.4	16458.2	18838.4	21212.4	20870.6	14167.2
52.5°	16481.7	16486.4	16638.5	16489.5	16342.1	16787.4	17184.2	19658.5	22361.8	22200.3	15133.2
55°	17309.6	17359.8	17858.4	17827.1	17742.4	17311.2	17791.0	20439.4	23387.3	23464.2	16158.7
57.5°	16781.2	16977.2	17987.0	18698.9	19392.0	18614.2	18611.1	21319.1	24340.7	24704.5	17286.1
60°	14697.2	14963.8	16451.9	18030.9	20199.5	20881.6	20314.0	22393.2	25303.5	25933.8	18698.9
62.5°	10496.5	10935.5	12952.0	15473.4	19092.5	22383.8	23779.3	24097.6	26612.8	27357.6	20535.1
65°	5306.2	5638.7	7329.0	10366.3	15253.9	21402.2	27545.8	27829.6	28888.0	29549.7	23362.2
67.5°	3223.9	3349.3	4174.1	5765.7	9351.8	16671.4	28775.1	34050.0	33291.1	33642.3	27393.7
70°	2375.6	2468.1	2982.4	3829.2	5378.4	9783.0	25002.4	38489.1	37990.5	37951.3	30372.9
72°	1850.3	1917.7	2372.4	3093.7	3932.6	5869.2	18121.8	36850.5	39335.9	39138.3	30100.1
72.5°	1754.6	1814.2	2228.2	2911.9	3716.3	5320.4	16293.5	35745.0	39238.6	39149.3	29747.3
75°	1381.4	1423.8	1649.6	2251.7	2908.7	3018.5	8928.4	27701.0	34808.9	36256.2	26755.5
77.5°	1143.1	1149.4	1268.5	1638.6	2267.4	2134.1	4385.8	19219.5	24925.6	26517.1	18952.9
80°	931.4	939.3	995.7	1149.4	1715.4	1579.0	2082.4	11051.5	13955.6	13972.8	9013.1
82.5°	741.7	743.3	806.0	840.5	1232.5	1129.0	1193.3	5188.6	6098.1	5866.0	3239.6
85°	522.2	511.2	787.2	689.9	806.0	724.4	658.6	2054.1	2521.4	2411.6	1014.5
87.5°	174.1	180.3	349.7	446.9	470.4	410.8	293.2	787.2	951.8	944.0	321.4
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°	5602.6	5602.6	5602.6	5602.6	5602.6	5602.6	5602.6	5602.6	5602.6	5602.6	5602.6
2.5°	5630.8	5580.7	5507.0	5425.4	5361.1	5295.3	5246.7	5221.6	5193.3	5169.8	5198.1
5°	5690.4	5596.3	5439.5	5285.9	5173.0	5072.6	5000.5	4962.8	4928.4	4904.8	4908.0
7.5°	5787.6	5635.5	5372.1	5147.9	4991.1	4882.9	4809.2	4784.1	4762.1	4755.9	4763.7
10°	5891.1	5666.9	5282.7	4984.8	4806.0	4716.7	4683.7	4701.0	4716.7	4730.8	4746.5
12.5°	6008.7	5695.1	5152.6	4793.5	4641.4	4606.9	4639.8	4715.1	4770.0	4802.9	4823.3
15°	6162.4	5720.2	5002.0	4602.2	4500.3	4539.5	4650.8	4781.0	4876.6	4937.8	4947.2
17.5°	6303.5	5718.6	4809.2	4409.3	4385.8	4500.3	4668.1	4851.5	4980.1	5066.3	5083.6
20°	6449.3	5676.3	4584.9	4221.2	4269.8	4457.9	4675.9	4897.0	5052.2	5152.6	5176.1
22.5°	6585.8	5602.6	4338.8	4050.2	4172.6	4401.5	4646.1	4870.3	5025.6	5107.1	5132.2
25°	6678.3	5474.0	4089.4	3906.0	4086.3	4332.5	4548.9	4729.2	4845.2	4886.0	4892.3
27.5°	6725.3	5306.2	3854.2	3780.5	3996.9	4219.6	4368.6	4457.9	4490.9	4487.7	4481.5
30°	6731.6	5085.2	3652.0	3678.6	3893.4	4053.4	4123.9	4106.7	4064.4	3992.2	3998.5
32.5°	6711.2	4835.8	3482.6	3581.4	3761.7	3851.1	3854.2	3771.1	3658.2	3543.8	3512.4
35°	6717.5	4591.2	3333.7	3471.6	3601.8	3641.0	3604.9	3482.6	3328.9	3181.6	3150.2
37.5°	6786.5	4378.0	3205.1	3344.6	3424.6	3434.0	3382.3	3253.7	3140.8	2996.5	2984.0
40°	6951.1	4225.9	3082.8	3201.9	3247.4	3252.1	3178.4	3087.5	3096.9	3020.0	3018.5
42.5°	7247.5	4160.0	2974.6	3053.0	3081.2	3090.6	3034.2	2976.1	3057.7	3007.5	2990.3
45°	7630.1	4175.7	2883.6	2907.1	2958.9	3002.8	2968.3	2897.7	2929.1	2711.1	2639.0
47.5°	8072.3	4276.0	2811.5	2781.7	2871.1	2954.2	2900.9	2794.2	2682.9	2466.5	2425.8
50°	8589.7	4431.3	2745.6	2657.8	2775.4	2888.3	2835.0	2682.9	2515.1	2410.1	2396.0
52.5°	9129.1	4621.0	2679.8	2521.4	2654.7	2838.2	2811.5	2657.8	2450.8	2347.4	2328.5
55°	9740.7	4812.3	2596.7	2363.0	2524.5	2814.6	2800.5	2566.9	2402.2	2344.2	2330.1
57.5°	10501.2	5030.3	2486.9	2198.4	2402.2	2730.0	2686.1	2512.0	2352.1	2308.2	2303.5
60°	11492.2	5351.7	2328.5	2022.8	2253.3	2599.8	2590.4	2432.0	2272.1	2240.7	2234.5
62.5°	12978.7	5883.3	2110.6	1847.2	2087.1	2378.7	2465.0	2323.8	2187.4	2185.8	2189.0
65°	15283.7	6683.0	1873.8	1693.5	1919.3	2192.1	2319.1	2212.5	2101.2	2132.5	2137.2
67.5°	17955.6	7346.3	1641.7	1543.0	1748.4	2014.9	2187.4	2101.2	1986.7	2068.2	2069.8
70°	18844.7	6753.5	1437.9	1394.0	1571.2	1844.0	2044.7	1978.9	1862.8	1944.4	1936.5
72°	17537.0	5452.1	1306.2	1281.1	1437.9	1702.9	1917.7	1864.4	1749.9	1804.8	1784.4
72.5°	17124.6	5198.1	1273.2	1252.9	1401.8	1666.8	1884.8	1836.2	1721.7	1768.7	1749.9
75°	15275.8	4514.4	1094.5	1099.2	1223.1	1491.2	1699.8	1684.1	1566.5	1571.2	1564.9
77.5°	11079.8	3310.1	922.0	953.4	1041.2	1310.9	1513.2	1503.8	1375.2	1351.7	1346.9
80°	5141.6	1688.8	751.1	765.2	856.2	1096.1	1290.5	1278.0	1174.5	1144.7	1127.4
82.5°	1760.9	802.8	564.5	573.9	663.3	882.8	1119.6	1111.7	1025.5	967.5	931.4
85°	628.8	399.9	395.1	385.7	473.5	694.6	975.3	933.0	806.0	686.8	683.7
87.5°	203.8	170.9	203.8	202.3	276.0	470.4	708.8	603.7	584.9	486.1	476.7
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)