

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: P318770

Luminaire Tested: **GAN-SA6C-750-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318770
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6C-750-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42557 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

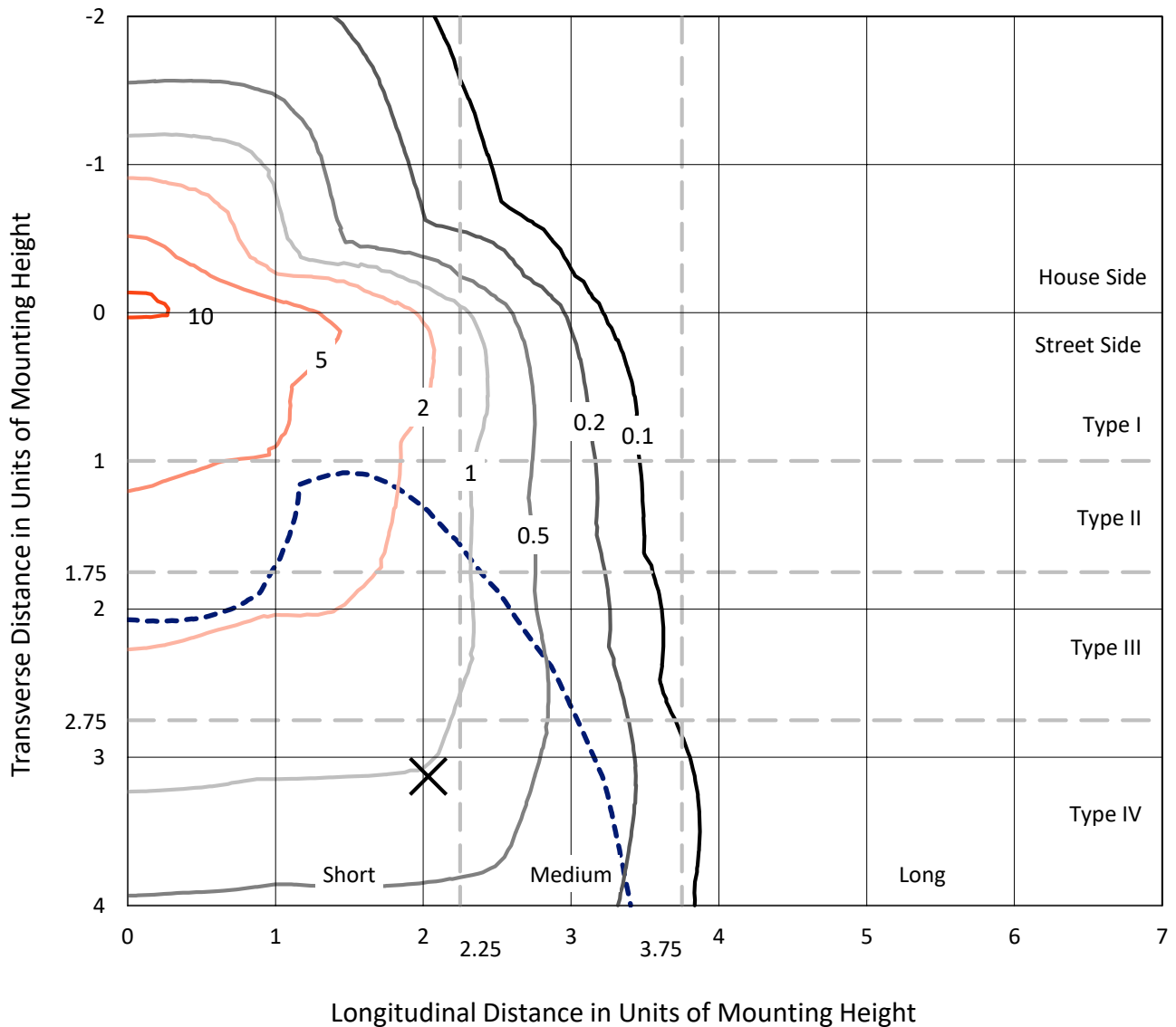
Input Watts (W): 333
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

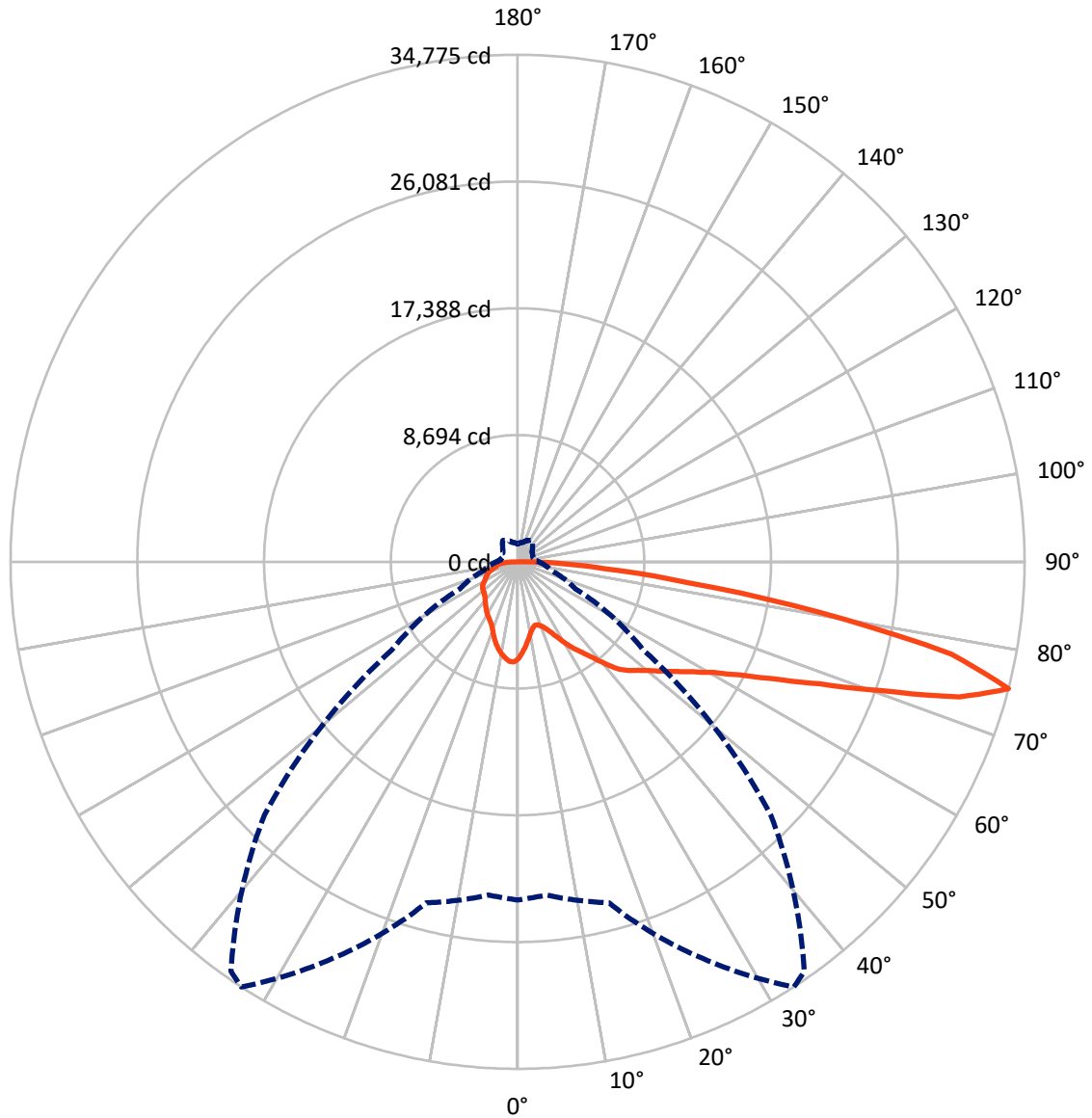
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9138.1	0.0	9138.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	33418.9	0.0	33418.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	42557.0	0.0	42557.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.6	1.4
10°-20°	1629.3	3.8
20°-30°	2660.9	6.3
30°-40°	3962.8	9.3
40°-50°	5683.7	13.4
50°-60°	7802.8	18.3
60°-70°	9768.8	23.0
70°-80°	8837.3	20.8
80°-90°	1609.8	3.8
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°	42557.0	100.0
0°-180°	42557.0	100.0

Coefficient of Utilization



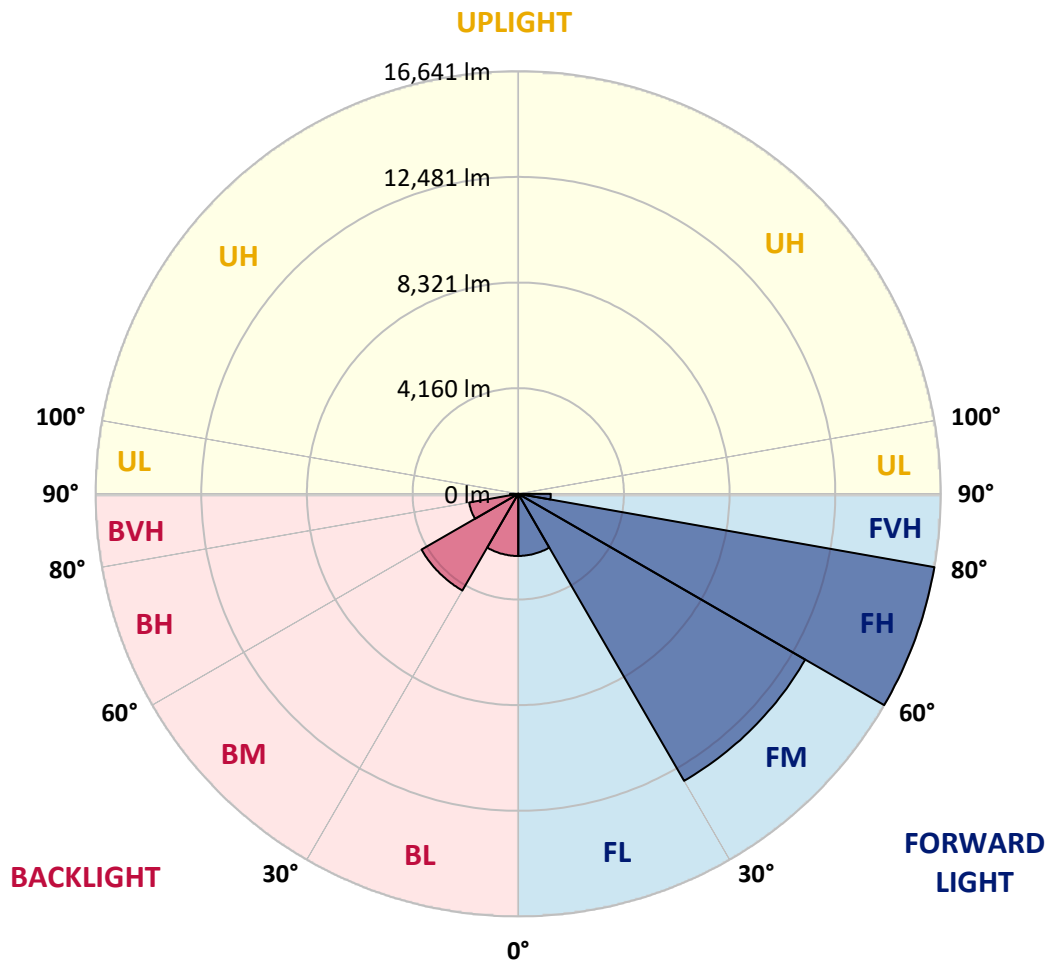
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2444.2	5.7			
FM (30°-60°)	13051.4	30.7			
FH (60°-80°)	16641.3	39.1			G5
FVH (80°-90°)	1282.0	3.0			G5
BL (0°-30°)	2447.6	5.8	B3/2500		
BM (30°-60°)	4397.9	10.3	B3/5000		
BH (60°-80°)	1964.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	327.7	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	6651.9	6651.9	6651.9	6651.9	6651.9	6651.9	6651.9	6651.9	6651.9	6651.9	6651.9
2.5°	6177.1	6153.6	6197.7	6203.5	6241.8	6256.5	6309.4	6391.7	6459.3	6537.2	6607.8
5°	5617.0	5600.8	5662.6	5706.7	5790.5	5825.7	5950.7	6125.6	6281.4	6457.9	6618.1
7.5°	5084.8	5076.0	5145.1	5245.1	5342.1	5390.6	5606.7	5861.0	6121.2	6406.4	6651.9
10°	4636.5	4633.5	4699.7	4798.2	4940.8	4995.2	5274.5	5609.6	5974.2	6366.7	6709.2
12.5°	4385.1	4395.4	4426.3	4508.6	4640.9	4695.3	5005.5	5399.4	5850.7	6353.5	6793.0
15°	4446.8	4463.0	4410.1	4407.2	4501.2	4543.9	4834.9	5249.5	5762.5	6375.5	6915.0
17.5°	4710.0	4712.9	4573.3	4485.1	4542.4	4564.5	4782.0	5164.2	5711.1	6425.5	7067.9
20°	5080.4	5073.1	4826.1	4679.1	4710.0	4715.9	4857.0	5165.7	5706.7	6512.2	7266.4
22.5°	5571.4	5517.0	5184.8	4984.9	4977.5	4968.7	5049.6	5274.5	5771.3	6653.4	7503.0
25°	6212.4	6160.9	5703.7	5430.3	5371.5	5349.4	5361.2	5506.7	5899.2	6804.8	7767.7
27.5°	6925.3	6835.7	6394.6	6008.0	5886.0	5855.1	5784.6	5834.6	6038.9	6950.3	8082.2
30°	7522.2	7473.6	7088.5	6629.8	6485.8	6441.7	6256.5	6202.1	6240.3	7148.8	8479.1
32.5°	7855.9	7823.5	7589.8	7219.3	7085.6	7023.8	6762.2	6653.4	6563.7	7461.9	9017.2
35°	8260.1	8239.5	8098.4	7829.4	7630.9	7566.3	7363.4	7250.2	7019.4	7892.6	9712.5
37.5°	8774.6	8752.6	8755.5	8537.9	8301.3	8241.0	8107.2	7988.2	7610.4	8458.6	10468.1
40°	9356.8	9314.1	9298.0	9287.7	9137.7	9103.9	9033.4	8871.6	8351.3	9134.8	11213.4
42.5°	10232.9	10081.5	9758.1	9880.1	10028.6	10010.9	10068.3	9836.0	9174.5	9934.5	11941.1
45°	11078.2	10829.7	10271.1	10297.6	10622.5	10720.9	11150.2	10985.6	10066.8	10810.6	12693.7
47.5°	11463.3	11275.2	10800.3	10801.8	11123.7	11328.1	12268.9	12151.3	11004.7	11805.8	13612.5
50°	11894.0	11705.9	11279.6	11439.8	11720.6	11938.1	13349.4	13289.1	11897.0	12895.1	14713.6
52.5°	12364.4	12045.4	11775.0	12061.6	12455.6	12708.4	14431.3	14266.7	12715.8	13991.8	15979.3
55°	12370.3	12283.6	12489.4	12699.6	13289.1	13599.3	15564.7	15129.6	13383.2	15069.3	17009.7
57.5°	13074.5	12933.3	13369.9	13467.0	14237.3	14587.1	16692.2	15880.8	14062.3	15895.5	17565.4
60°	14006.5	13885.9	14243.1	14498.9	15410.4	15877.8	17896.2	16652.5	14596.0	16518.8	17539.0
62.5°	15616.2	15479.4	15475.0	15833.7	17061.2	17605.1	19247.1	17409.6	14807.6	16642.2	16790.7
65°	17972.6	17755.1	17344.9	17515.4	19341.2	19883.7	20756.9	17957.9	14528.3	15980.7	14863.5
67.5°	20265.9	20258.5	19754.3	20104.2	22351.8	22787.0	22476.8	18012.3	13656.6	13677.2	11444.2
70°	22551.8	22581.2	22495.9	23713.1	26419.4	26872.2	24308.5	17281.7	11697.0	9877.1	6856.2
72.5°	24362.9	24355.5	24784.8	27923.3	31698.3	31596.9	25852.0	15067.8	8398.3	5331.8	3276.7
75°	23189.8	22934.0	24212.9	30007.8	34775.1	34279.7	24539.3	10510.7	4358.6	2427.0	1764.0
77.5°	15125.2	15367.7	17245.0	24789.2	30417.9	29815.2	18003.5	4904.0	2053.6	1592.0	1278.9
80°	5477.3	5733.1	8074.9	14041.8	20956.8	20858.3	8865.8	2015.4	1389.2	1202.5	932.0
82.5°	1884.6	1978.7	3185.6	6235.9	11832.3	12273.3	3335.5	1145.2	1009.9	852.6	638.0
85°	739.4	846.7	1456.8	3000.3	5968.3	6012.4	1351.0	685.0	702.7	558.6	349.9
87.5°	280.8	341.0	696.8	1393.6	2725.4	2503.5	483.6	326.3	399.8	332.2	166.1
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°	6651.9	6651.9	6651.9	6651.9	6651.9	6651.9	6651.9	6651.9	6651.9	6651.9	6651.9
2.5°	6662.2	6693.1	6757.7	6801.8	6848.9	6862.1	6868.0	6879.8	6891.5	6887.1	6888.6
5°	6703.3	6763.6	6868.0	6912.1	6932.7	6909.2	6863.6	6826.8	6800.4	6785.7	6781.3
7.5°	6771.0	6856.2	6968.0	6960.6	6913.6	6809.2	6691.6	6603.4	6529.9	6503.4	6488.7
10°	6860.6	6960.6	7038.5	6954.7	6818.0	6637.2	6460.8	6324.1	6213.8	6171.2	6163.8
12.5°	6975.3	7076.7	7091.4	6913.6	6687.2	6440.2	6200.6	6019.8	5855.1	5802.2	5790.5
15°	7123.8	7219.3	7128.2	6841.5	6525.5	6193.2	5883.1	5637.6	5464.1	5399.4	5375.9
17.5°	7279.6	7370.7	7135.5	6722.5	6313.8	5900.7	5511.2	5259.8	5061.3	4986.4	4977.5
20°	7466.3	7507.5	7104.7	6551.9	6022.7	5521.4	5111.3	4874.6	4768.8	4715.9	4710.0
22.5°	7697.1	7653.0	7034.1	6321.1	5653.7	5083.4	4749.7	4639.4	4613.0	4601.2	4605.6
25°	7941.1	7805.9	6929.7	6019.8	5187.7	4645.3	4485.1	4515.9	4551.2	4546.8	4546.8
27.5°	8210.1	7961.7	6769.5	5619.9	4671.8	4286.6	4305.7	4418.9	4471.8	4470.4	4468.9
30°	8555.6	8138.1	6565.2	5139.2	4189.6	4033.8	4149.9	4288.1	4360.1	4357.2	4358.6
32.5°	8980.4	8332.1	6287.3	4602.7	3841.2	3847.1	3980.8	4117.6	4201.4	4194.0	4195.5
35°	9477.3	8549.7	5911.0	4073.5	3610.4	3698.6	3804.4	3900.0	3979.4	3969.1	3958.8
37.5°	10018.3	8762.9	5411.2	3600.1	3422.2	3560.4	3648.6	3664.8	3701.5	3675.1	3656.0
40°	10532.8	8926.0	4767.3	3212.0	3232.6	3442.8	3500.1	3435.5	3369.3	3360.5	3334.0
42.5°	10981.1	8980.4	4116.1	2901.8	3032.7	3319.3	3354.6	3219.4	3100.3	3044.4	3020.9
45°	11454.5	8999.5	3509.0	2641.6	2840.1	3209.1	3247.3	3066.5	2898.9	2778.4	2738.7
47.5°	12073.4	9137.7	3037.1	2449.1	2693.1	3135.6	3190.0	2944.5	2726.9	2554.9	2518.2
50°	12883.4	9411.1	2653.4	2302.1	2597.5	3087.1	3148.8	2825.4	2585.8	2378.5	2341.8
52.5°	13783.0	9662.5	2343.2	2183.0	2504.9	3001.8	3095.9	2740.1	2453.5	2215.3	2175.6
55°	14412.2	9470.0	2093.3	2059.5	2384.4	2879.8	3022.4	2668.1	2263.9	2056.6	2021.3
57.5°	14532.7	8811.4	1903.7	1931.6	2238.9	2726.9	2909.2	2507.9	2160.9	1987.5	1950.7
60°	14203.5	7894.1	1762.6	1814.0	2083.0	2534.3	2697.5	2394.7	2062.5	1914.0	1883.1
62.5°	13375.8	6954.7	1658.2	1708.2	1937.5	2338.8	2565.2	2275.6	1962.5	1830.2	1799.3
65°	11704.4	5839.0	1558.2	1614.1	1802.3	2169.8	2446.1	2165.4	1864.0	1762.6	1733.2
67.5°	8834.9	4373.3	1464.2	1514.1	1681.7	2022.8	2316.8	2056.6	1768.4	1703.8	1668.5
70°	5202.4	2738.7	1356.8	1409.8	1555.3	1869.9	2178.6	1937.5	1649.4	1620.0	1574.4
72.5°	2421.1	1647.9	1234.8	1286.3	1396.5	1665.5	2000.7	1781.7	1508.3	1443.6	1381.8
75°	1445.0	1205.4	1090.8	1136.3	1214.2	1448.0	1777.3	1622.9	1374.5	1289.2	1224.5
77.5°	1080.5	921.7	932.0	980.5	1043.7	1267.2	1574.4	1498.0	1271.6	1205.4	1161.3
80°	777.6	699.7	760.0	812.9	879.1	1152.5	1508.3	1384.8	1149.6	1061.4	1020.2
82.5°	518.9	502.8	571.8	626.2	690.9	1008.4	1417.1	1212.8	982.0	870.3	779.1
85°	286.7	302.8	385.1	408.7	464.5	710.0	1161.3	974.6	739.4	595.4	568.9
87.5°	119.1	139.7	207.3	199.9	247.0	423.4	764.4	588.0	470.4	351.3	273.4
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)