

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: P319091

Luminaire Tested: **GAN-SA7C-750-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319091  
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-750-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 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: 49680 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

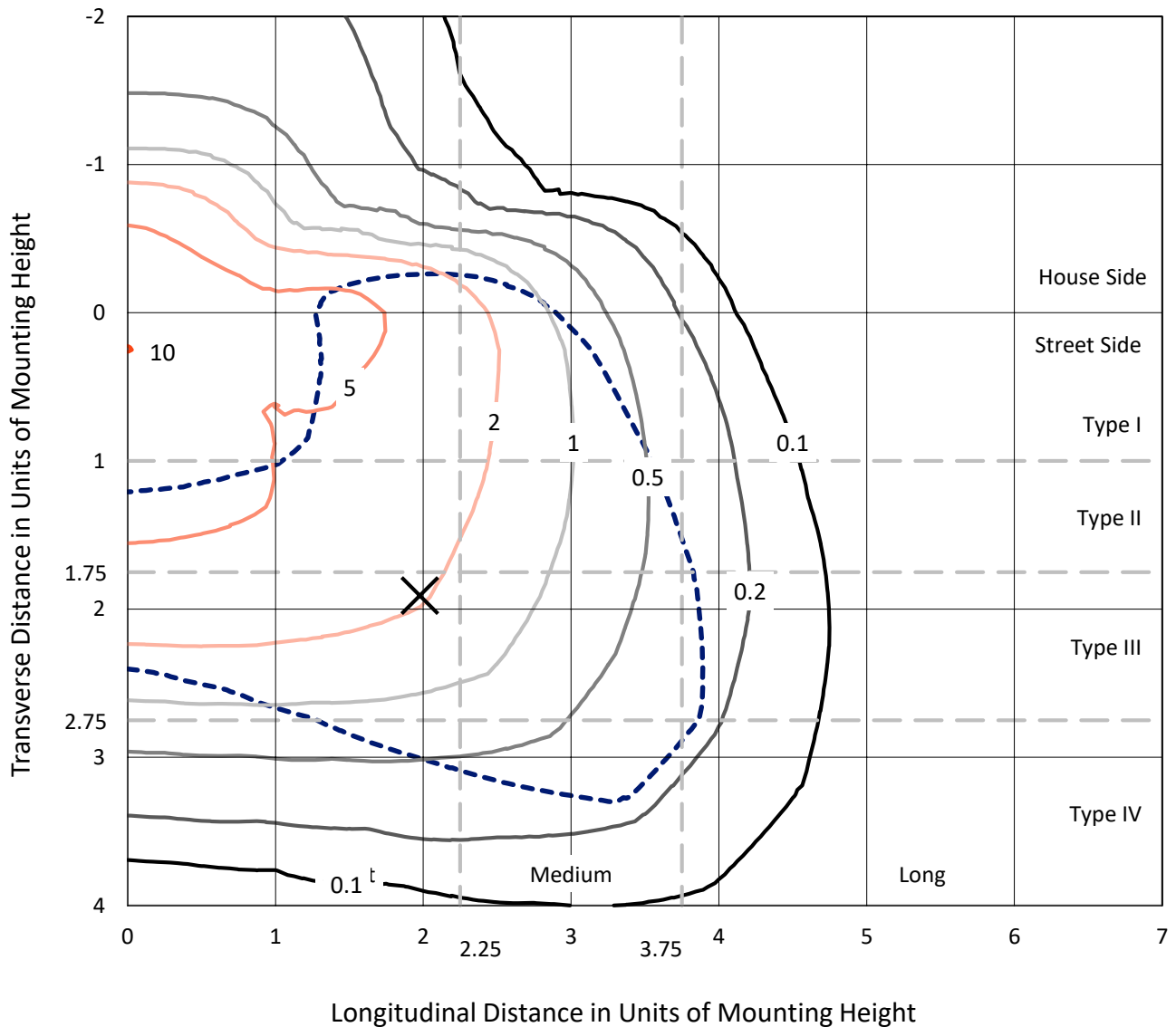
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

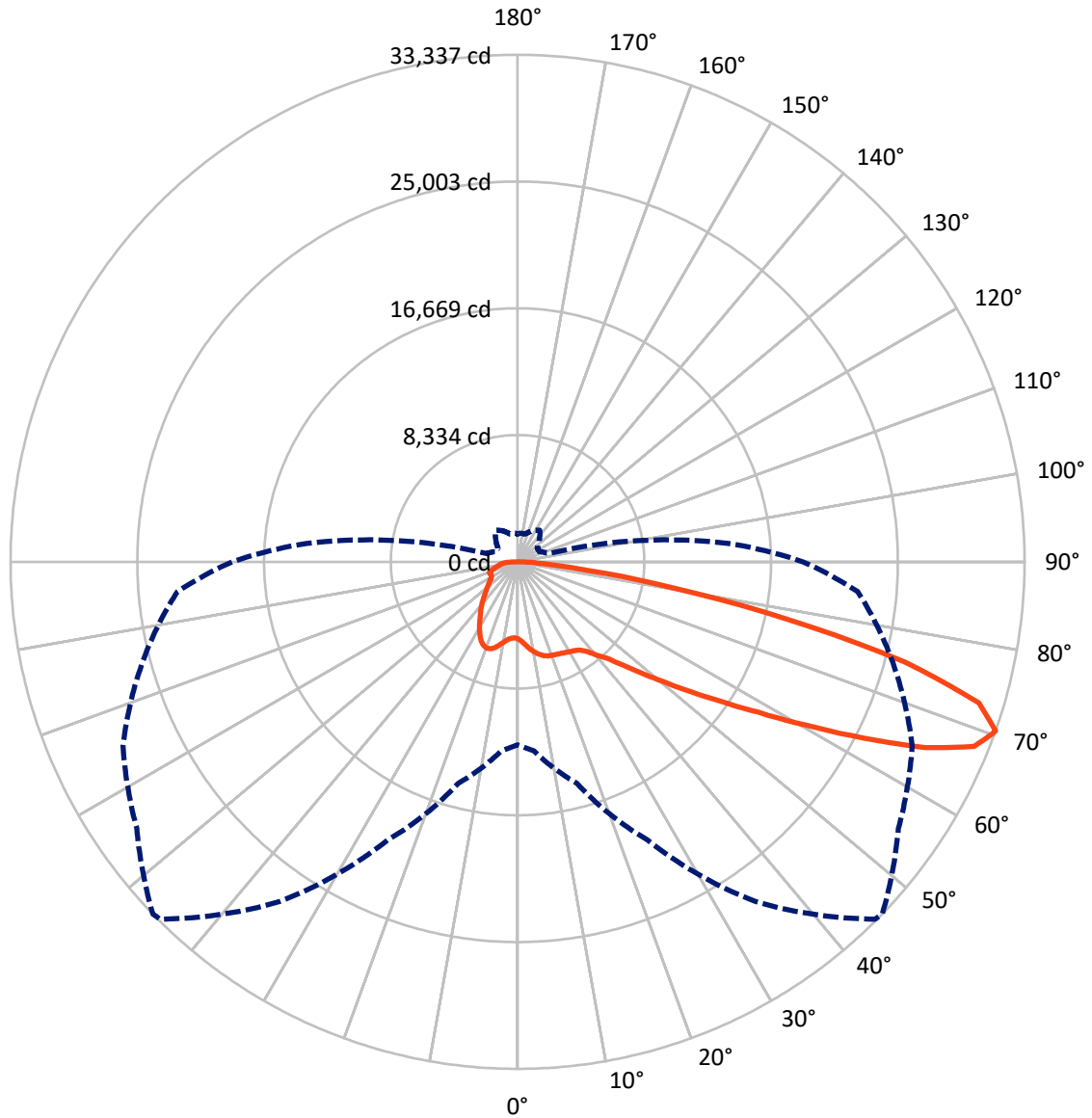
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	11386.5	0.0	11386.5
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	38293.5	0.0	38293.5
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	49680.0	0.0	49680.0
	% 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°	4067.5	8.2
40°-50°	5983.1	12.0
50°-60°	10132.4	20.4
60°-70°	14382.8	29.0
70°-80°	8737.6	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°	49680.0	100.0
0°-180°	49680.0	100.0

**Coefficient of Utilization**

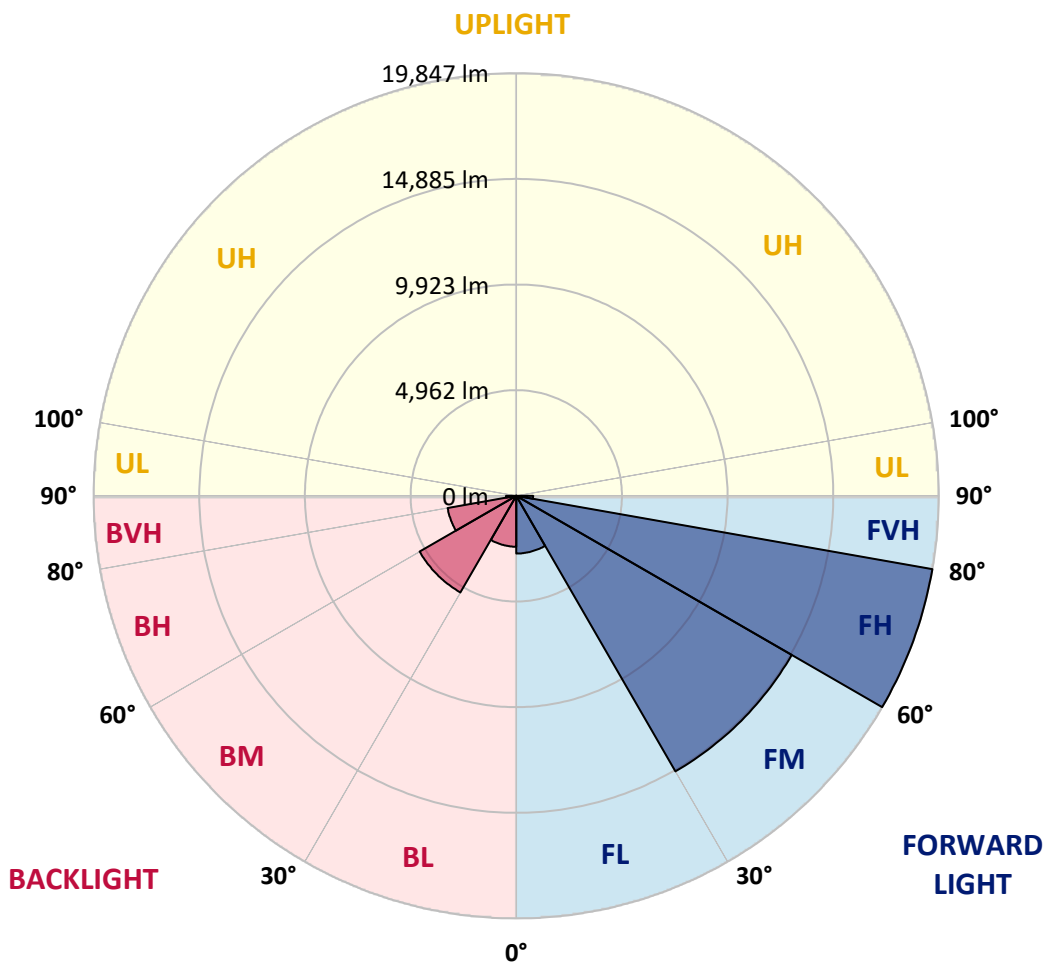


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2710.8	5.5			
FM (30°-60°)	14941.5	30.1			
FH (60°-80°)	19846.9	39.9			G5
FVH (80°-90°)	794.3	1.6			G5
BL (0°-30°)	2390.6	4.8	B3/2500		
BM (30°-60°)	5241.5	10.6	B4/8500		
BH (60°-80°)	3273.5	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°	5061.4	5061.4	5061.4	5061.4	5061.4	5061.4	5061.4	5061.4	5061.4	5061.4	5061.4
2.5°	5314.7	5318.1	5324.9	5307.9	5260.3	5246.7	5241.6	5192.3	5160.0	5112.4	5071.6
5°	5739.8	5743.2	5733.0	5685.4	5580.0	5501.8	5495.0	5382.8	5280.7	5171.9	5090.3
7.5°	6183.5	6188.6	6156.3	6066.2	5918.3	5782.3	5773.8	5620.8	5466.1	5301.1	5178.7
10°	6576.3	6555.9	6503.2	6377.4	6202.2	6035.6	6028.8	5869.0	5690.5	5491.6	5328.3
12.5°	6838.1	6821.1	6753.1	6600.1	6408.0	6254.9	6241.3	6093.4	5920.0	5702.4	5506.9
15°	6982.6	6994.5	6902.7	6729.3	6542.3	6413.1	6401.2	6295.7	6141.0	5921.7	5697.3
17.5°	7001.3	7011.5	6923.1	6751.4	6598.4	6510.0	6504.9	6435.2	6322.9	6112.1	5877.5
20°	6892.5	6899.3	6826.2	6685.1	6584.8	6557.6	6555.9	6525.3	6442.0	6254.9	6027.1
22.5°	6734.4	6739.5	6686.8	6584.8	6550.8	6593.3	6605.2	6593.3	6533.8	6358.7	6144.4
25°	6695.3	6691.9	6637.5	6533.8	6562.7	6652.8	6668.1	6673.2	6632.4	6479.4	6294.0
27.5°	6884.0	6872.1	6768.4	6601.8	6620.5	6729.3	6749.7	6799.0	6773.5	6639.2	6464.1
30°	7429.8	7409.4	7196.8	6860.2	6768.4	6824.5	6850.0	6928.2	6933.3	6821.1	6690.2
32.5°	8351.3	8325.8	7944.9	7343.1	7018.3	6921.4	6945.2	7062.5	7125.4	7038.7	6897.6
35°	9515.9	9487.0	8987.1	8164.2	7436.6	7106.7	7123.7	7217.2	7343.1	7220.6	7033.6
37.5°	10729.8	10660.1	10178.9	9129.9	8101.3	7502.9	7502.9	7514.8	7574.3	7319.3	7193.4
40°	11936.9	11867.2	11432.0	10265.7	8961.6	8126.8	8087.7	7824.2	7776.6	7557.3	7514.8
42.5°	13059.0	13038.6	12781.9	11549.3	9971.5	8740.6	8686.2	8239.0	8249.2	8113.2	8114.9
45°	14252.6	14252.6	14043.4	12844.8	11148.0	9726.7	9672.3	9014.3	9116.3	9053.4	9204.7
47.5°	15226.8	15257.4	15228.5	14194.8	12516.7	10979.7	10881.1	10088.8	10374.5	10590.4	11030.7
50°	16221.4	16269.0	16274.1	15675.6	14171.0	12469.1	12356.9	11515.3	12152.8	12771.7	13637.1
52.5°	17664.8	17771.9	17345.2	17153.1	16197.6	14237.3	14126.8	13349.8	14414.1	15282.9	16773.9
55°	19002.9	18909.3	18605.0	18724.0	18367.0	16250.3	16167.0	15485.2	16933.7	18062.7	19999.2
57.5°	19727.1	19720.3	20026.4	20536.4	20706.4	18732.5	18662.8	17999.7	19774.7	20623.1	23027.2
60°	20577.2	20589.1	21347.4	22505.2	23205.7	21823.4	21792.8	21289.6	22534.1	23013.6	25402.3
62.5°	20696.2	20910.4	22216.2	24208.8	25545.1	25434.6	25502.6	24253.0	25002.8	24921.2	27175.6
65°	19327.6	19609.8	21973.1	24723.9	27871.0	29384.1	29447.0	27233.4	26949.5	26551.6	27809.8
67.5°	16522.3	16940.5	19507.8	23603.5	28637.7	32303.3	32391.7	29543.9	28564.6	27104.2	26283.0
70°	12023.6	12487.8	15072.0	20159.0	27270.8	33236.7	33337.0	30565.7	28625.8	25531.5	22437.2
72.5°	7263.1	7627.0	9757.3	14840.8	23017.0	31536.5	31715.1	29270.2	26135.1	21626.2	16568.2
75°	3189.5	3427.6	4718.0	8551.9	16478.1	26092.6	26315.3	25053.8	21235.2	15716.4	9793.0
77.5°	1358.4	1426.4	1934.8	3714.9	9315.3	17829.7	18135.8	18305.8	14407.3	8551.9	4138.2
80°	846.7	873.9	1094.9	1681.5	4359.2	10014.0	10343.9	10770.6	7154.3	3143.6	1445.1
82.5°	515.2	545.8	727.7	1016.7	2269.7	4539.5	4697.6	4998.5	2776.4	1358.4	748.1
85°	309.4	331.5	445.4	642.7	1292.1	1785.2	1783.5	1972.2	1307.4	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°	5061.4	5061.4	5061.4	5061.4	5061.4	5061.4	5061.4	5061.4	5061.4	5061.4	5061.4
2.5°	5058.0	5051.2	5029.1	5012.1	5008.7	4998.5	4990.0	4995.1	5001.9	5003.6	5003.6
5°	5056.3	5037.6	5008.7	4996.8	5012.1	5032.5	5058.0	5092.0	5112.4	5127.7	5137.9
7.5°	5137.9	5102.2	5069.9	5063.1	5093.7	5148.1	5205.9	5277.3	5326.6	5360.7	5367.5
10°	5273.9	5229.7	5197.4	5204.2	5258.6	5336.8	5418.5	5510.3	5585.1	5631.0	5634.4
12.5°	5430.4	5387.9	5357.2	5386.2	5476.3	5571.5	5656.5	5736.4	5804.4	5850.3	5850.3
15°	5610.6	5580.0	5544.3	5610.6	5733.0	5818.0	5853.7	5892.8	5930.2	5964.2	5957.4
17.5°	5784.0	5755.1	5736.4	5814.6	5942.1	5981.2	5957.4	5928.5	5928.5	5947.2	5950.6
20°	5933.6	5908.1	5920.0	5996.5	6062.8	6022.0	5933.6	5841.8	5804.4	5814.6	5824.8
22.5°	6064.5	6052.6	6088.3	6124.0	6076.4	5933.6	5770.4	5646.3	5600.4	5597.0	5600.4
25°	6217.5	6215.8	6260.0	6195.4	5984.6	5721.1	5501.8	5381.1	5355.5	5376.0	5410.0
27.5°	6408.0	6426.7	6448.8	6212.4	5797.6	5399.8	5177.0	5093.7	5119.2	5168.5	5200.8
30°	6651.1	6702.1	6654.5	6169.9	5529.0	5032.5	4820.0	4796.2	4865.9	4935.6	4969.6
32.5°	6887.4	6967.3	6851.7	6059.4	5182.1	4643.2	4478.3	4471.5	4556.5	4624.5	4672.1
35°	7077.8	7235.9	6999.6	5840.1	4780.9	4284.4	4163.7	4117.8	4148.4	4228.3	4282.7
37.5°	7326.1	7589.6	7101.6	5505.2	4345.6	3988.6	3847.5	3742.1	3714.9	3747.2	3774.4
40°	7780.0	8128.5	7149.2	5037.6	3920.6	3692.8	3550.0	3395.2	3288.1	3209.9	3211.6
42.5°	8521.3	8830.7	7118.6	4469.8	3527.9	3403.7	3242.2	3063.7	2890.3	2713.5	2699.9
45°	9725.0	9874.6	7026.8	3867.9	3182.7	3101.1	2949.8	2771.3	2540.1	2339.4	2320.7
47.5°	11651.3	11319.8	6884.0	3342.5	2878.4	2844.4	2705.0	2499.3	2254.4	2092.9	2079.3
50°	14278.1	13405.9	6814.3	2924.3	2609.8	2620.0	2506.1	2288.4	2057.2	1938.2	1924.6
52.5°	17420.0	15835.4	6948.6	2601.3	2393.8	2429.5	2344.5	2140.5	1946.7	1853.2	1839.6
55°	20679.2	18351.7	7093.1	2366.6	2189.8	2259.5	2230.6	2062.3	1887.2	1800.5	1788.6
57.5°	23469.2	20230.4	6804.1	2176.2	2007.9	2116.7	2142.2	2013.0	1856.6	1778.4	1764.8
60°	25225.5	20987.0	6045.8	1997.7	1863.4	2002.8	2091.2	1999.4	1868.5	1861.7	1851.5
62.5°	26058.6	20920.6	4908.4	1856.6	1773.3	1953.5	2128.6	2075.9	2004.5	2065.7	2070.8
65°	25684.5	19920.9	3655.4	1763.1	1708.7	1972.2	2240.8	2220.4	2043.6	2104.8	2113.3
67.5°	23222.7	17535.6	2706.7	1681.5	1637.3	2024.9	2444.9	2268.0	1967.1	2011.3	1984.1
70°	18769.9	13902.3	2087.8	1589.7	1564.2	2018.1	2536.7	2239.1	1883.8	1894.0	1820.9
72.5°	12943.4	9480.2	1698.5	1504.7	1458.7	1839.6	2472.1	2167.7	1814.1	1735.9	1639.0
75°	7038.7	5088.6	1443.4	1416.2	1273.4	1615.2	2353.0	2116.7	1751.2	1647.5	1593.1
77.5°	2769.6	2111.6	1253.0	1295.5	1113.6	1426.4	2220.4	2019.8	1664.5	1528.5	1501.3
80°	1130.6	1077.9	1038.8	1120.4	957.2	1247.9	2060.6	1905.9	1560.8	1417.9	1363.5
82.5°	641.0	669.9	807.6	884.1	777.0	1149.3	1984.1	1814.1	1436.6	1270.0	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	1365.2	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)