

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: P318771

Luminaire Tested: **GAN-SA7C-750-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318771
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-SA7C-750-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 50330 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

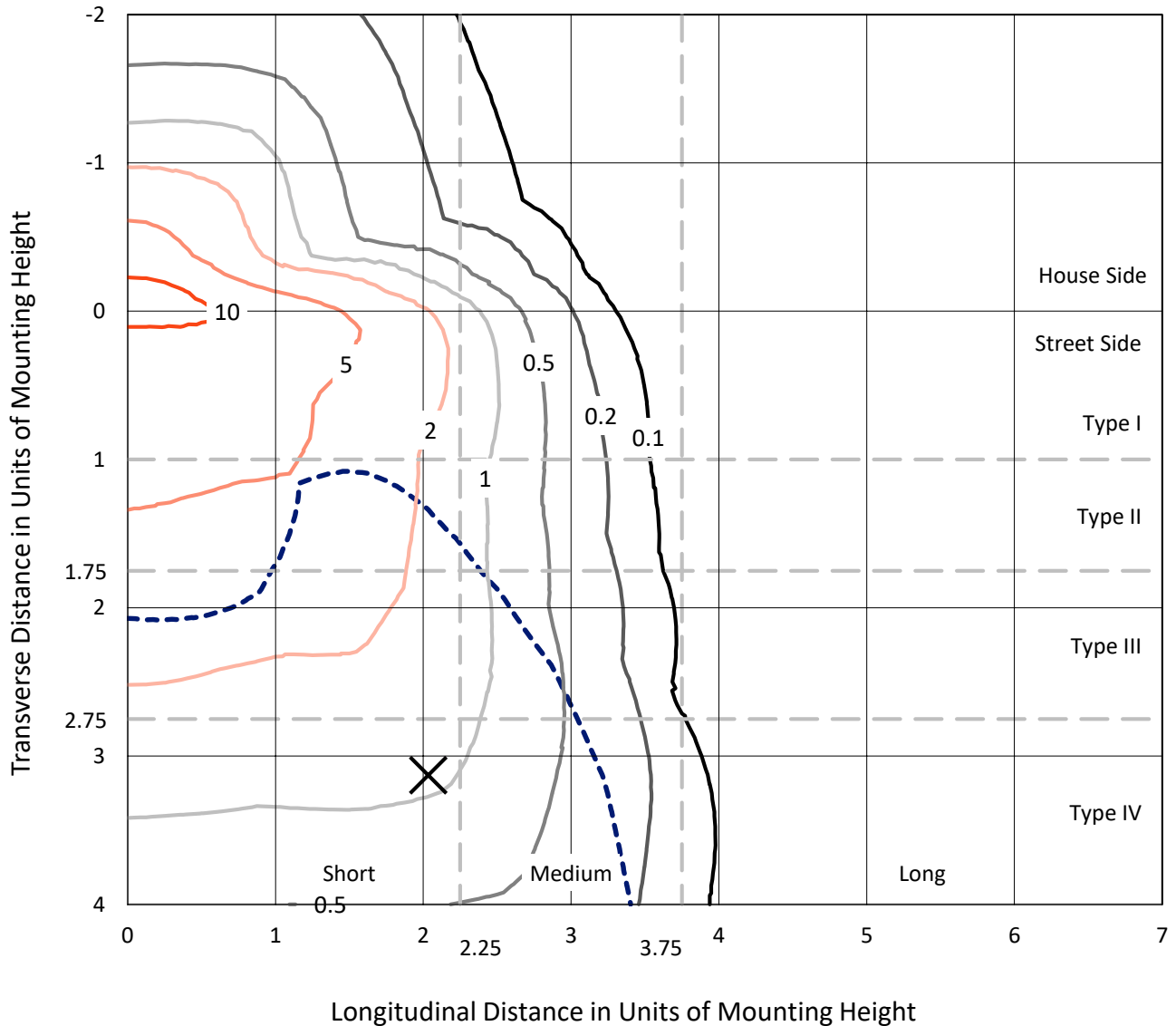
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

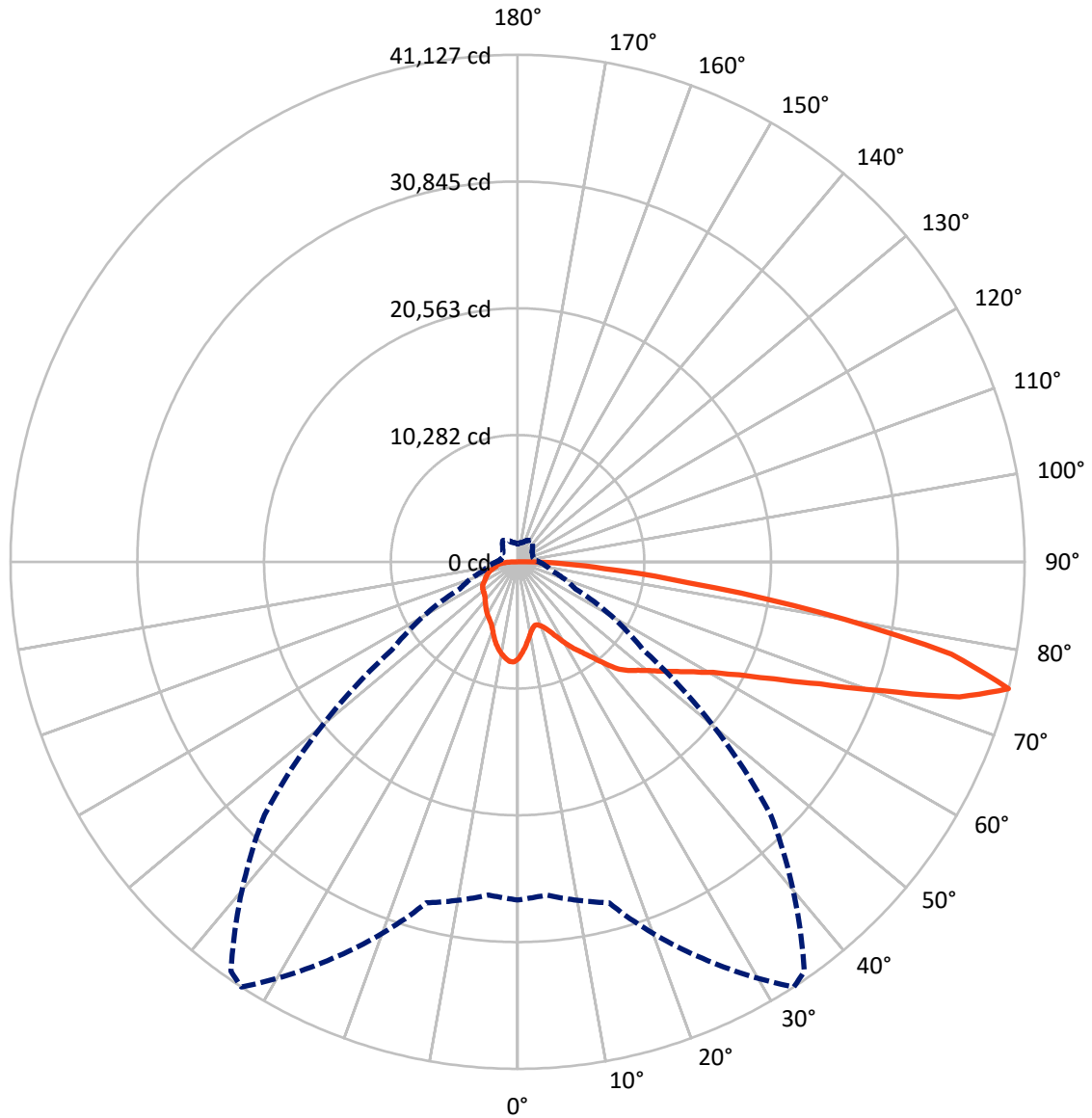
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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	10807.2	0.0	10807.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	39522.8	0.0	39522.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	50330.0	0.0	50330.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	711.5	1.4
10°-20°	1926.9	3.8
20°-30°	3147.0	6.3
30°-40°	4686.6	9.3
40°-50°	6721.8	13.4
50°-60°	9228.0	18.3
60°-70°	11553.0	23.0
70°-80°	10451.5	20.8
80°-90°	1903.8	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°	50330.0	100.0
0°-180°	50330.0	100.0

Coefficient of Utilization

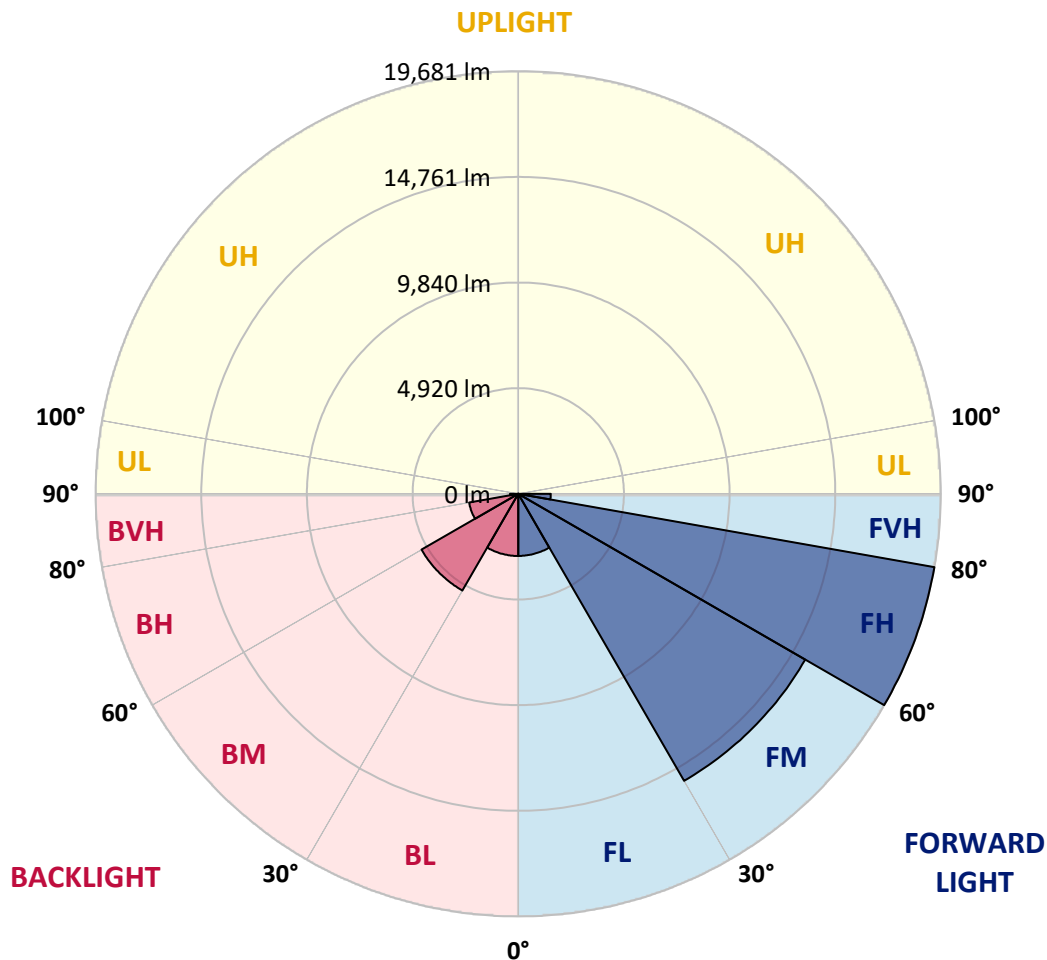


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2890.7	5.7			
FM (30°-60°)	15435.2	30.7			
FH (60°-80°)	19680.8	39.1			G5
FVH (80°-90°)	1516.2	3.0			G5
BL (0°-30°)	2894.7	5.8	B4/5000		
BM (30°-60°)	5201.2	10.3	B4/8500		
BH (60°-80°)	2323.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	387.6	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	7866.9	7866.9	7866.9	7866.9	7866.9	7866.9	7866.9	7866.9	7866.9	7866.9	7866.9
2.5°	7305.3	7277.5	7329.7	7336.6	7381.8	7399.2	7461.8	7559.1	7639.1	7731.3	7814.7
5°	6642.9	6623.8	6696.8	6749.0	6848.1	6889.8	7037.6	7244.5	7428.8	7637.4	7826.9
7.5°	6013.6	6003.2	6084.9	6203.1	6317.8	6375.2	6630.8	6931.5	7239.3	7576.5	7866.9
10°	5483.3	5479.9	5558.1	5674.6	5843.2	5907.5	6237.9	6634.2	7065.4	7529.6	7934.7
12.5°	5186.0	5198.2	5234.7	5332.1	5488.5	5552.9	5919.7	6385.6	6919.4	7513.9	8033.8
15°	5259.1	5278.2	5215.6	5212.1	5323.4	5373.8	5718.0	6208.3	6815.0	7540.0	8178.1
17.5°	5570.3	5573.7	5408.6	5304.3	5372.1	5398.1	5655.4	6107.5	6754.2	7599.1	8358.9
20°	6008.4	5999.7	5707.6	5533.8	5570.3	5577.2	5744.1	6109.2	6749.0	7701.7	8593.6
22.5°	6589.0	6524.7	6131.8	5895.4	5886.7	5876.2	5971.9	6237.9	6825.5	7868.6	8873.5
25°	7347.0	7286.2	6745.5	6422.1	6352.6	6326.5	6340.4	6512.5	6976.7	8047.7	9186.4
27.5°	8190.2	8084.2	7562.6	7105.4	6961.1	6924.6	6841.1	6900.2	7141.9	8219.8	9558.5
30°	8896.1	8838.7	8383.2	7840.8	7670.4	7618.3	7399.2	7334.9	7380.1	8454.5	10027.9
32.5°	9290.7	9252.5	8976.0	8537.9	8379.7	8306.7	7997.3	7868.6	7762.5	8824.8	10664.2
35°	9768.8	9744.5	9577.6	9259.4	9024.7	8948.2	8708.3	8574.4	8301.5	9334.2	11486.5
37.5°	10377.3	10351.2	10354.7	10097.4	9817.5	9746.2	9588.0	9447.2	9000.4	10003.5	12380.1
40°	11065.8	11015.3	10996.2	10984.1	10806.7	10766.7	10683.3	10492.0	9876.6	10803.2	13261.5
42.5°	12101.9	11922.9	11540.4	11684.7	11860.3	11839.4	11907.2	11632.5	10850.2	11749.0	14122.1
45°	13101.6	12807.8	12147.1	12178.4	12562.6	12679.1	13186.8	12992.1	11905.5	12785.2	15012.2
47.5°	13557.1	13334.5	12773.0	12774.7	13155.5	13397.1	14509.8	14370.7	13014.7	13962.2	16098.8
50°	14066.5	13843.9	13339.8	13529.3	13861.3	14118.6	15787.6	15716.3	14069.9	15250.4	17401.0
52.5°	14622.8	14245.5	13925.6	14264.7	14730.6	15029.6	17067.2	16872.5	15038.3	16547.4	18897.9
55°	14629.8	14527.2	14770.6	15019.2	15716.3	16083.2	18407.6	17893.0	15827.6	17821.7	20116.6
57.5°	15462.5	15295.6	15812.0	15926.7	16837.7	17251.5	19741.0	18781.4	16630.8	18798.8	20773.7
60°	16564.7	16422.2	16844.6	17147.1	18225.0	18777.9	21164.9	19694.1	17261.9	19535.9	20742.4
62.5°	18468.4	18306.8	18301.5	18725.7	20177.4	20820.7	22762.6	20589.4	17512.2	19681.9	19857.5
65°	21255.3	20998.0	20512.9	20714.6	22873.9	23515.4	24548.1	21237.9	17181.9	18899.6	17578.3
67.5°	23967.4	23958.7	23362.4	23776.2	26434.4	26949.0	26582.2	21302.2	16151.0	16175.3	13534.5
70°	26670.8	26705.6	26604.8	28044.3	31244.9	31780.4	28748.4	20438.2	13833.5	11681.2	8108.5
72.5°	28812.7	28804.0	29311.7	33023.4	37488.0	37368.0	30573.8	17820.0	9932.2	6305.7	3875.2
75°	27425.4	27122.9	28635.4	35488.7	41126.7	40540.8	29021.3	12430.5	5154.7	2870.3	2086.2
77.5°	17887.8	18174.6	20394.7	29316.9	35973.7	35260.9	21291.8	5799.7	2428.7	1882.8	1512.5
80°	6477.8	6780.3	9549.8	16606.5	24784.5	24668.0	10485.1	2383.5	1642.9	1422.1	1102.2
82.5°	2228.8	2340.1	3767.4	7374.9	13993.5	14515.0	3944.7	1354.3	1194.4	1008.3	754.5
85°	874.5	1001.4	1722.9	3548.3	7058.4	7110.6	1597.7	810.2	831.0	660.6	413.8
87.5°	332.1	403.3	824.1	1648.1	3223.2	2960.7	572.0	386.0	472.9	392.9	196.5
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°	7866.9	7866.9	7866.9	7866.9	7866.9	7866.9	7866.9	7866.9	7866.9	7866.9	7866.9
2.5°	7879.0	7915.5	7992.0	8044.2	8099.8	8115.5	8122.4	8136.3	8150.2	8145.0	8146.8
5°	7927.7	7999.0	8122.4	8174.6	8198.9	8171.1	8117.2	8073.7	8042.5	8025.1	8019.9
7.5°	8007.7	8108.5	8240.6	8232.0	8176.3	8052.9	7913.8	7809.5	7722.6	7691.3	7673.9
10°	8113.7	8232.0	8324.1	8225.0	8063.3	7849.5	7640.9	7479.2	7348.8	7298.4	7289.7
12.5°	8249.3	8369.3	8386.7	8176.3	7908.6	7616.5	7333.1	7119.3	6924.6	6862.0	6848.1
15°	8424.9	8537.9	8430.1	8091.1	7717.3	7324.4	6957.6	6667.3	6462.1	6385.6	6357.8
17.5°	8609.2	8717.0	8438.8	7950.3	7467.0	6978.5	6517.8	6220.5	5985.8	5897.1	5886.7
20°	8830.0	8878.7	8402.3	7748.6	7122.8	6529.9	6044.9	5765.0	5639.8	5577.2	5570.3
22.5°	9103.0	9050.8	8318.9	7475.7	6686.4	6011.8	5617.2	5486.8	5455.5	5441.6	5446.8
25°	9391.6	9231.6	8195.4	7119.3	6135.3	5493.8	5304.3	5340.8	5382.5	5377.3	5377.3
27.5°	9709.7	9415.9	8005.9	6646.4	5525.1	5069.6	5092.2	5226.0	5288.6	5286.9	5285.1
30°	10118.3	9624.5	7764.3	6077.9	4954.8	4770.5	4907.9	5071.3	5156.5	5153.0	5154.7
32.5°	10620.7	9854.0	7435.7	5443.3	4542.8	4549.7	4707.9	4869.6	4968.7	4960.0	4961.8
35°	11208.3	10111.3	6990.6	4817.5	4269.8	4374.1	4499.3	4612.3	4706.2	4694.0	4681.9
37.5°	11848.1	10363.4	6399.5	4257.7	4047.3	4210.7	4315.0	4334.2	4377.6	4346.3	4323.7
40°	12456.6	10556.4	5638.1	3798.7	3823.0	4071.6	4139.4	4063.0	3984.7	3974.3	3943.0
42.5°	12986.8	10620.7	4867.9	3431.9	3586.6	3925.6	3967.3	3807.4	3666.6	3600.5	3572.7
45°	13546.6	10643.3	4149.9	3124.1	3358.8	3795.2	3840.4	3626.6	3428.4	3285.8	3238.9
47.5°	14278.6	10806.7	3591.8	2896.4	3185.0	3708.3	3772.6	3482.3	3225.0	3021.6	2978.1
50°	15236.5	11130.1	3138.1	2722.5	3072.0	3650.9	3723.9	3341.5	3058.1	2812.9	2769.5
52.5°	16300.5	11427.4	2771.2	2581.7	2962.5	3550.1	3661.4	3240.6	2901.6	2620.0	2573.0
55°	17044.6	11199.6	2475.7	2435.7	2819.9	3405.8	3574.4	3155.4	2677.3	2432.2	2390.5
57.5°	17187.1	10420.8	2251.4	2284.4	2647.8	3225.0	3440.6	2965.9	2555.6	2350.5	2307.0
60°	16797.7	9335.9	2084.5	2145.3	2463.5	2997.2	3190.2	2832.1	2439.2	2263.6	2227.1
62.5°	15818.9	8225.0	1961.1	2020.2	2291.4	2766.0	3033.7	2691.2	2320.9	2164.5	2128.0
65°	13842.2	6905.5	1842.8	1908.9	2131.4	2566.1	2892.9	2560.9	2204.5	2084.5	2049.7
67.5°	10448.6	5172.1	1731.6	1790.7	1988.9	2392.2	2739.9	2432.2	2091.5	2015.0	1973.2
70°	6152.7	3238.9	1604.7	1667.3	1839.4	2211.4	2576.5	2291.4	1950.6	1915.9	1862.0
72.5°	2863.4	1948.9	1460.4	1521.2	1651.6	1969.8	2366.1	2107.1	1783.7	1707.2	1634.2
75°	1709.0	1425.6	1290.0	1343.9	1436.0	1712.5	2101.9	1919.3	1625.5	1524.7	1448.2
77.5°	1277.8	1090.1	1102.2	1159.6	1234.4	1498.6	1862.0	1771.6	1503.8	1425.6	1373.4
80°	919.7	827.5	898.8	961.4	1039.6	1363.0	1783.7	1637.7	1359.5	1255.2	1206.5
82.5°	613.7	594.6	676.3	740.6	817.1	1192.6	1675.9	1434.3	1161.3	1029.2	921.4
85°	339.0	358.1	455.5	483.3	549.4	839.7	1373.4	1152.6	874.5	704.1	672.8
87.5°	140.8	165.2	245.1	236.4	292.1	500.7	904.0	695.4	556.3	415.5	323.4
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)