

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: P319092

Luminaire Tested: **GAN-SA8C-750-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319092
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-SA8C-750-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 56290 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

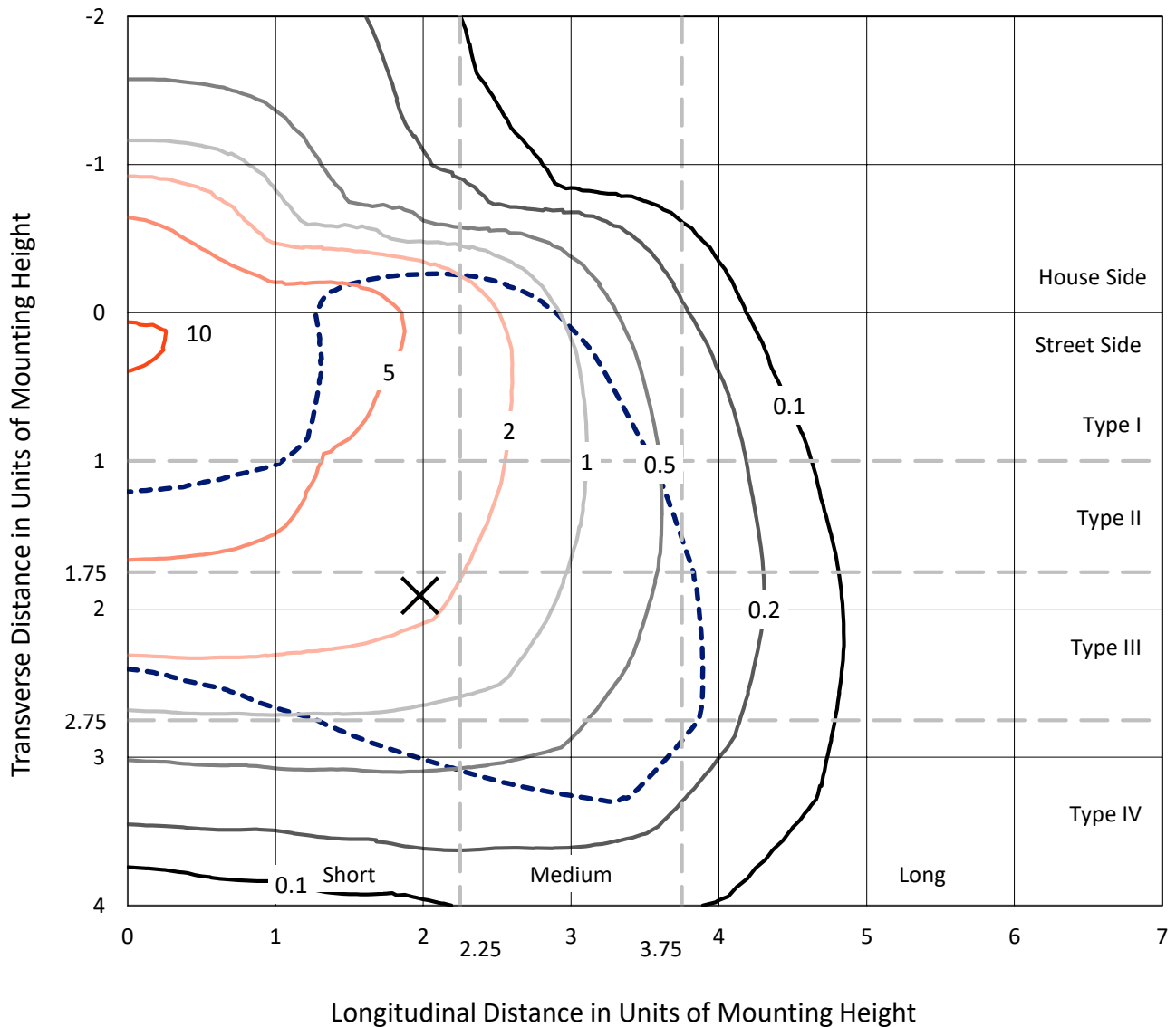
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

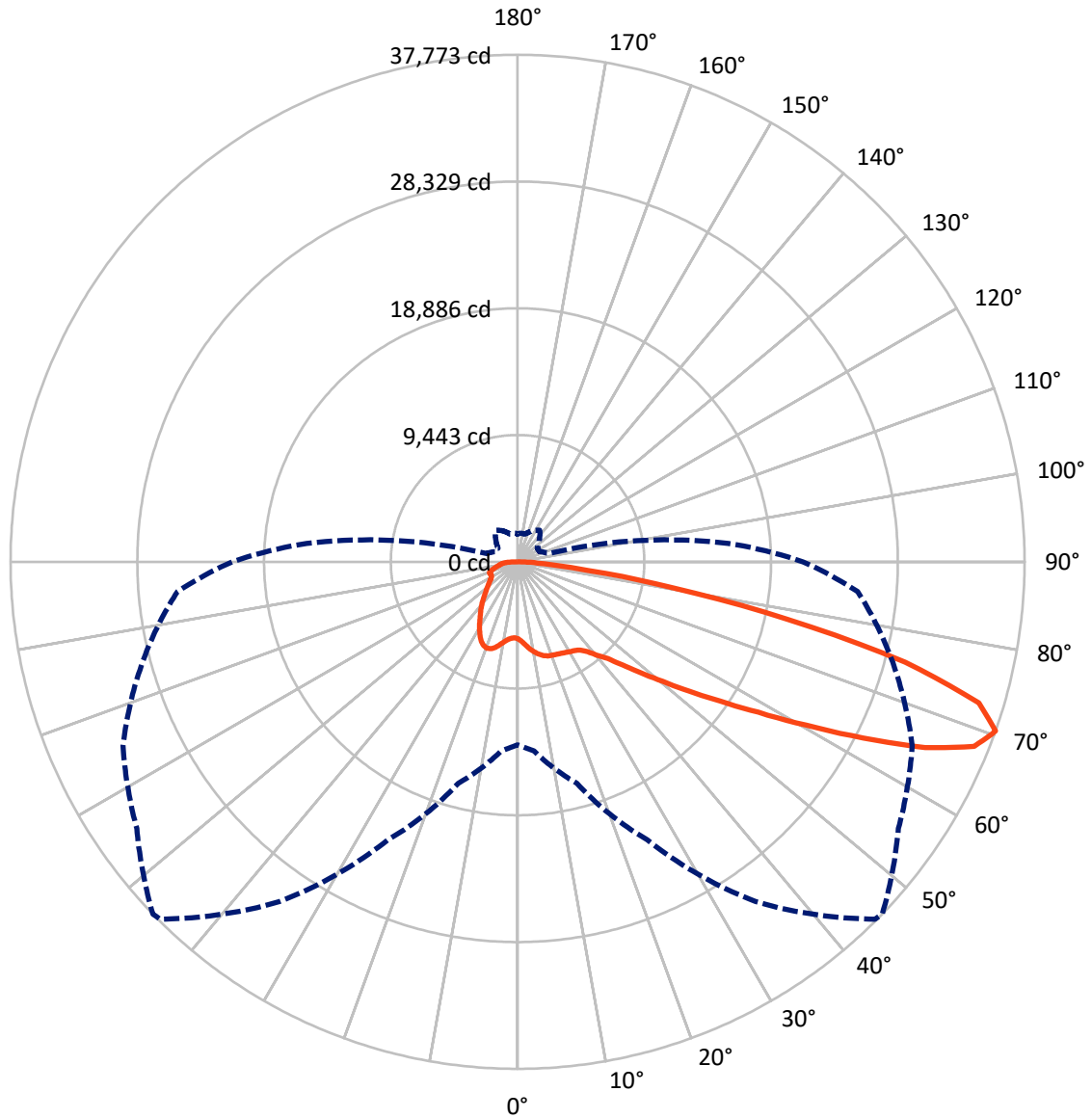
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	12901.5	0.0	12901.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	43388.5	0.0	43388.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	56290.0	0.0	56290.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.6	1.0
10°-20°	1947.8	3.5
20°-30°	3247.7	5.8
30°-40°	4608.7	8.2
40°-50°	6779.2	12.0
50°-60°	11480.5	20.4
60°-70°	16296.4	29.0
70°-80°	9900.2	17.6
80°-90°	1444.8	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°	56290.0	100.0
0°-180°	56290.0	100.0

Coefficient of Utilization

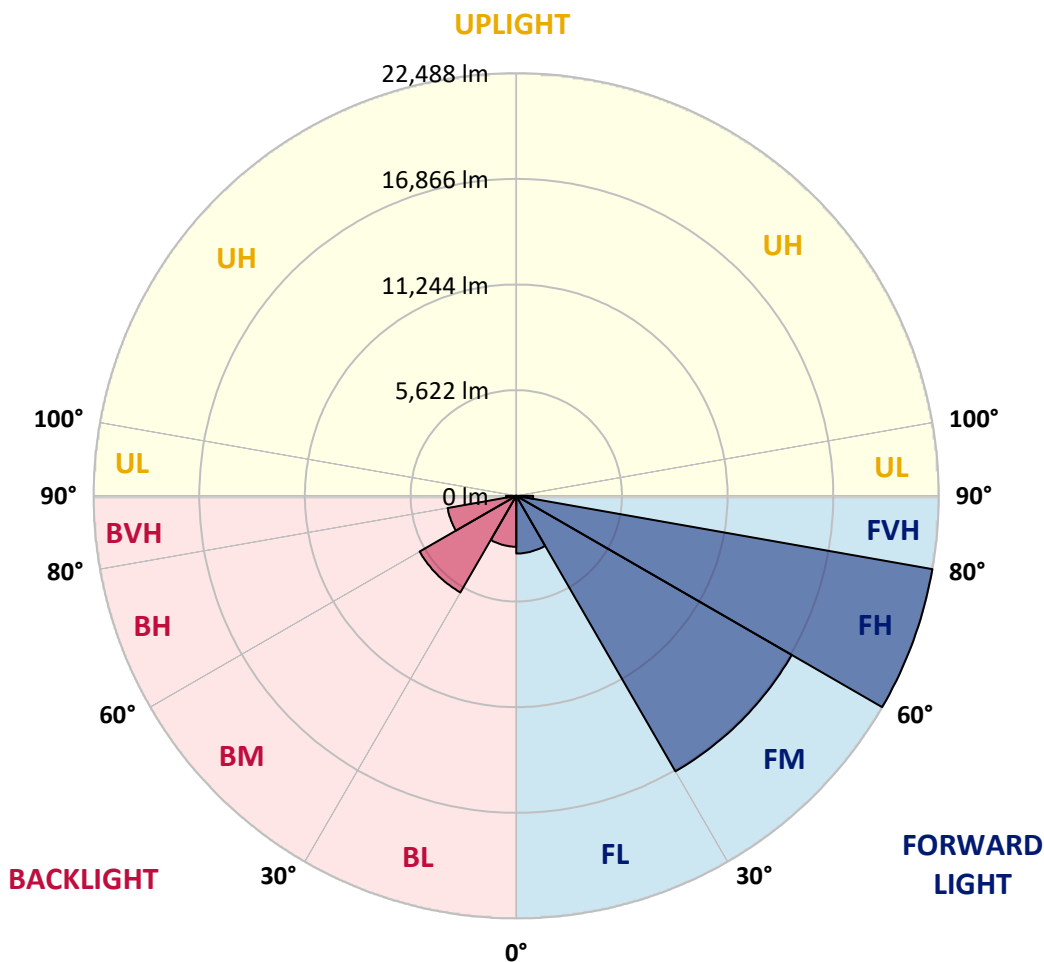


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3071.4	5.5			
FM	(30°-60°)	16929.5	30.1			
FH	(60°-80°)	22487.5	39.9			G5
FVH	(80°-90°)	900.0	1.6			G5
BL	(0°-30°)	2708.7	4.8	B4/5000		
BM	(30°-60°)	5938.9	10.6	B4/8500		
BH	(60°-80°)	3709.1	6.6	B4/5000		G4/5000
BVH	(80°-90°)	544.8	1.0			G4/750
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°	5734.8	5734.8	5734.8	5734.8	5734.8	5734.8	5734.8	5734.8	5734.8	5734.8	5734.8
2.5°	6021.9	6025.7	6033.4	6014.2	5960.2	5944.8	5939.0	5883.2	5846.6	5792.6	5746.4
5°	6503.5	6507.3	6495.8	6441.8	6322.4	6233.8	6226.1	6098.9	5983.4	5860.1	5767.6
7.5°	7006.3	7012.0	6975.4	6873.3	6705.7	6551.6	6542.0	6368.6	6193.3	6006.5	5867.8
10°	7451.3	7428.1	7368.4	7225.9	7027.5	6838.7	6831.0	6649.9	6447.6	6222.2	6037.3
12.5°	7747.9	7728.7	7651.6	7478.2	7260.5	7087.2	7071.8	6904.2	6707.7	6461.1	6239.6
15°	7911.7	7925.1	7821.1	7624.6	7412.7	7266.3	7252.8	7133.4	6958.1	6709.6	6455.3
17.5°	7932.9	7944.4	7844.2	7649.7	7476.3	7376.1	7370.4	7291.4	7164.2	6925.4	6659.5
20°	7809.6	7817.3	7734.4	7574.5	7460.9	7430.1	7428.1	7393.5	7299.1	7087.2	6829.0
22.5°	7630.4	7636.2	7576.5	7460.9	7422.4	7470.5	7484.0	7470.5	7403.1	7204.7	6962.0
25°	7586.1	7582.3	7520.6	7403.1	7435.8	7537.9	7555.3	7561.1	7514.8	7341.5	7131.5
27.5°	7799.9	7786.4	7668.9	7480.2	7501.3	7624.6	7647.7	7703.6	7674.7	7522.5	7324.1
30°	8418.3	8395.2	8154.4	7773.0	7668.9	7732.5	7761.4	7850.0	7855.8	7728.7	7580.3
32.5°	9462.4	9433.5	9002.0	8320.1	7952.1	7842.3	7869.3	8002.2	8073.5	7975.2	7815.3
35°	10782.0	10749.2	10182.9	9250.5	8426.0	8052.3	8071.6	8177.5	8320.1	8181.4	7969.5
37.5°	12157.4	12078.4	11533.3	10344.7	9179.2	8501.1	8501.1	8514.6	8582.0	8293.1	8150.5
40°	13525.2	13446.2	12953.0	11631.5	10154.0	9208.1	9163.8	8865.2	8811.3	8562.8	8514.6
42.5°	14796.6	14773.4	14482.6	13085.9	11298.3	9903.5	9841.9	9335.3	9346.8	9192.7	9194.6
45°	16148.9	16148.9	15911.9	14553.8	12631.3	11020.9	10959.2	10213.7	10329.3	10258.0	10429.5
47.5°	17252.7	17287.4	17254.6	16083.4	14182.0	12440.6	12328.9	11431.2	11754.8	11999.5	12498.4
50°	18379.6	18433.6	18439.4	17761.3	16056.4	14128.1	14001.0	13047.4	13769.8	14471.0	15451.5
52.5°	20015.1	20136.5	19653.0	19435.3	18352.7	16131.6	16006.3	15126.0	16331.9	17316.3	19005.7
55°	21531.2	21425.3	21080.4	21215.3	20810.7	18412.4	18318.0	17545.5	19186.8	20465.9	22660.1
57.5°	22351.8	22344.1	22690.9	23268.8	23461.4	21224.9	21145.9	20394.6	22405.8	23367.1	26091.0
60°	23315.0	23328.5	24187.7	25499.6	26293.2	24727.1	24692.4	24122.2	25532.3	26075.6	28782.1
62.5°	23449.9	23692.6	25172.1	27429.8	28943.9	28818.7	28895.8	27479.9	28329.4	28237.0	30791.3
65°	21899.1	22218.9	24896.6	28013.5	31579.2	33293.7	33365.0	30856.8	30535.1	30084.4	31509.9
67.5°	18720.6	19194.5	22103.3	26744.0	32448.0	36601.3	36701.5	33474.8	32365.2	30710.4	29780.0
70°	13623.4	14149.3	17077.4	22841.2	30899.2	37658.9	37772.6	34632.6	32434.6	28928.5	25422.5
72.5°	8229.5	8641.8	11055.5	16815.4	26079.4	35732.5	35934.8	33164.7	29612.4	24503.6	18772.6
75°	3613.9	3883.6	5345.7	9689.7	18670.5	29564.2	29816.6	28387.2	24060.6	17807.5	11096.0
77.5°	1539.2	1616.2	2192.2	4209.2	10554.7	20202.0	20548.8	20741.4	16324.2	9689.7	4688.8
80°	959.3	990.2	1240.6	1905.2	4939.3	11346.4	11720.1	12203.7	8106.2	3561.9	1637.4
82.5°	583.7	618.4	824.5	1152.0	2571.7	5143.4	5322.6	5663.6	3145.8	1539.2	847.6
85°	350.6	375.6	504.7	728.2	1464.1	2022.7	2020.8	2234.6	1481.4	990.2	446.9
87.5°	167.6	186.9	269.7	377.6	737.8	759.0	710.8	805.2	899.6	649.2	225.4
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°	5734.8	5734.8	5734.8	5734.8	5734.8	5734.8	5734.8	5734.8	5734.8	5734.8	5734.8
2.5°	5731.0	5723.3	5698.2	5679.0	5675.1	5663.6	5653.9	5659.7	5667.4	5669.4	5669.4
5°	5729.1	5707.9	5675.1	5661.6	5679.0	5702.1	5731.0	5769.5	5792.6	5810.0	5821.5
7.5°	5821.5	5781.1	5744.5	5736.8	5771.5	5833.1	5898.6	5979.5	6035.4	6073.9	6081.6
10°	5975.6	5925.6	5889.0	5896.7	5958.3	6046.9	6139.4	6243.4	6328.2	6380.2	6384.0
12.5°	6152.9	6104.7	6070.0	6102.8	6204.9	6312.8	6409.1	6499.6	6576.7	6628.7	6628.7
15°	6357.1	6322.4	6281.9	6357.1	6495.8	6592.1	6632.5	6676.9	6719.2	6757.8	6750.1
17.5°	6553.6	6520.8	6499.6	6588.2	6732.7	6777.0	6750.1	6717.3	6717.3	6738.5	6742.3
20°	6723.1	6694.2	6707.7	6794.4	6869.5	6823.3	6723.1	6619.1	6576.7	6588.2	6599.8
22.5°	6871.4	6857.9	6898.4	6938.8	6884.9	6723.1	6538.2	6397.5	6345.5	6341.7	6345.5
25°	7044.8	7042.9	7093.0	7019.7	6780.9	6482.3	6233.8	6097.0	6068.1	6091.2	6129.8
27.5°	7260.5	7281.7	7306.8	7039.0	6569.0	6118.2	5865.8	5771.5	5800.3	5856.2	5892.8
30°	7536.0	7593.8	7539.9	6990.9	6264.6	5702.1	5461.3	5434.3	5513.3	5592.3	5630.8
32.5°	7803.8	7894.3	7763.3	6865.6	5871.6	5261.0	5074.1	5066.4	5162.7	5239.8	5293.7
35°	8019.5	8198.7	7930.9	6617.1	5417.0	4854.5	4717.7	4665.7	4700.4	4790.9	4852.6
37.5°	8300.8	8599.4	8046.5	6237.6	4923.8	4519.3	4359.4	4240.0	4209.2	4245.8	4276.6
40°	8815.1	9210.0	8100.5	5707.9	4442.2	4184.1	4022.3	3847.0	3725.6	3637.0	3638.9
42.5°	9655.0	10005.6	8065.8	5064.5	3997.2	3856.6	3673.6	3471.3	3274.9	3074.5	3059.1
45°	11018.9	11188.4	7961.8	4382.5	3606.2	3513.7	3342.3	3140.0	2878.0	2650.7	2629.5
47.5°	13201.5	12825.9	7799.9	3787.3	3261.4	3222.8	3064.9	2831.8	2554.4	2371.4	2356.0
50°	16177.8	15189.5	7721.0	3313.4	2957.0	2968.6	2839.5	2592.9	2330.9	2196.1	2180.7
52.5°	19737.7	17942.4	7873.1	2947.4	2712.4	2752.8	2656.5	2425.3	2205.7	2099.8	2084.3
55°	23430.6	20793.4	8036.9	2681.5	2481.2	2560.2	2527.4	2336.7	2138.3	2040.0	2026.6
57.5°	26591.8	22922.1	7709.4	2465.8	2275.1	2398.3	2427.2	2280.8	2103.6	2015.0	1999.6
60°	28581.8	23779.3	6850.2	2263.5	2111.3	2269.3	2369.5	2265.4	2117.1	2109.4	2097.8
62.5°	29525.7	23704.2	5561.5	2103.6	2009.2	2213.4	2411.8	2352.1	2271.2	2340.6	2346.3
65°	29101.9	22571.5	4141.7	1997.7	1936.0	2234.6	2539.0	2515.9	2315.5	2384.9	2394.5
67.5°	26312.5	19868.7	3066.8	1905.2	1855.1	2294.3	2770.1	2569.8	2228.8	2278.9	2248.1
70°	21267.3	15752.1	2365.6	1801.2	1772.3	2286.6	2874.2	2537.0	2134.4	2146.0	2063.2
72.5°	14665.6	10741.5	1924.5	1704.9	1652.8	2084.3	2801.0	2456.1	2055.5	1966.8	1857.0
75°	7975.2	5765.7	1635.5	1604.7	1442.9	1830.1	2666.1	2398.3	1984.2	1866.7	1805.0
77.5°	3138.1	2392.6	1419.7	1467.9	1261.8	1616.2	2515.9	2288.5	1885.9	1731.8	1701.0
80°	1281.0	1221.3	1177.0	1269.5	1084.6	1414.0	2334.8	2159.5	1768.4	1606.6	1545.0
82.5°	726.2	759.0	915.0	1001.7	880.4	1302.2	2248.1	2055.5	1627.8	1439.0	1365.8
85°	371.8	445.0	637.6	718.5	647.3	1107.7	2070.9	1799.2	1306.1	1101.9	1107.7
87.5°	179.2	248.5	402.6	450.8	420.0	801.4	1546.9	1304.2	1017.1	805.2	780.2
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)