

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: P318453

Luminaire Tested: **GAN-SA9C-750-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-750-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63245 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

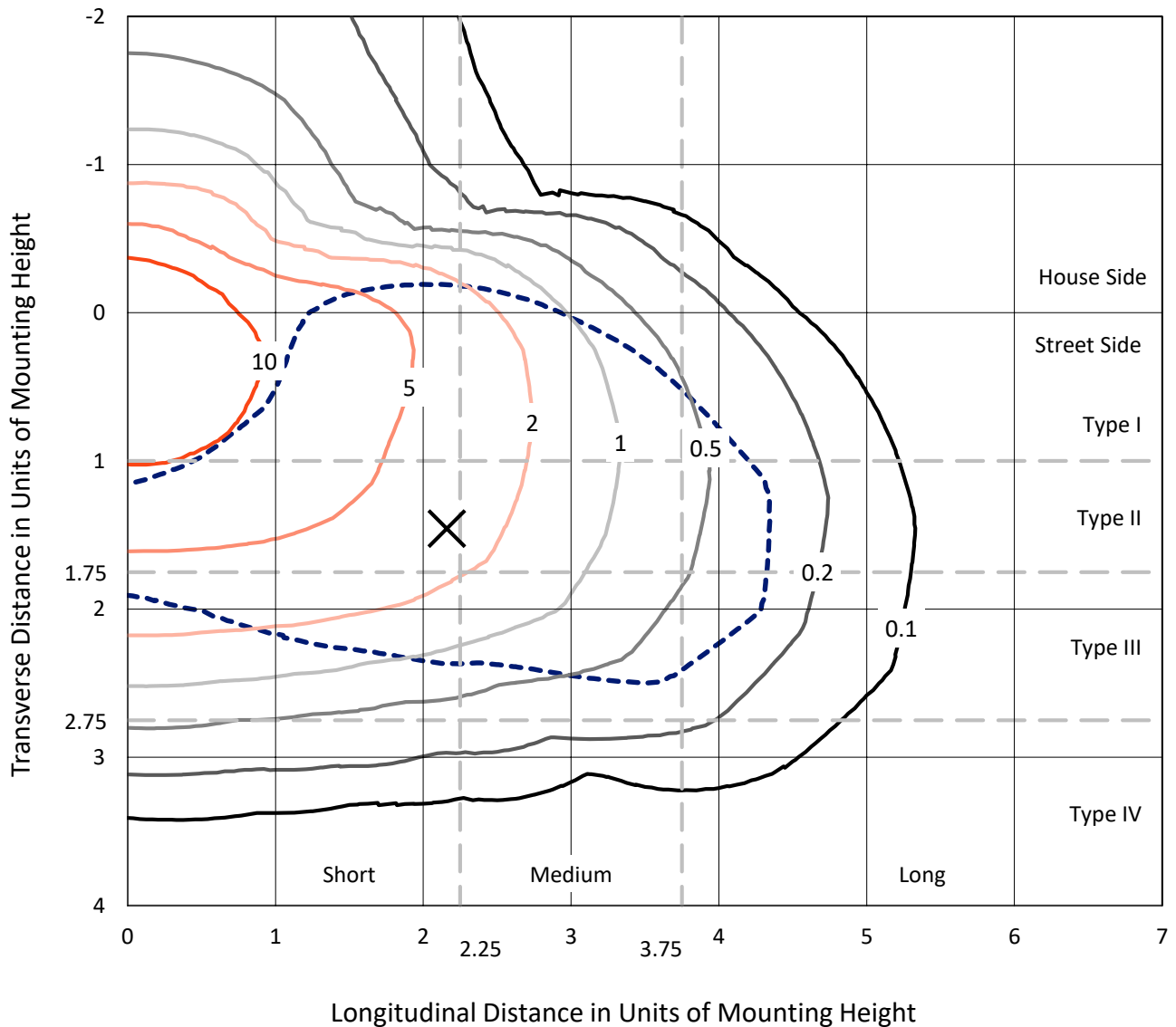
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

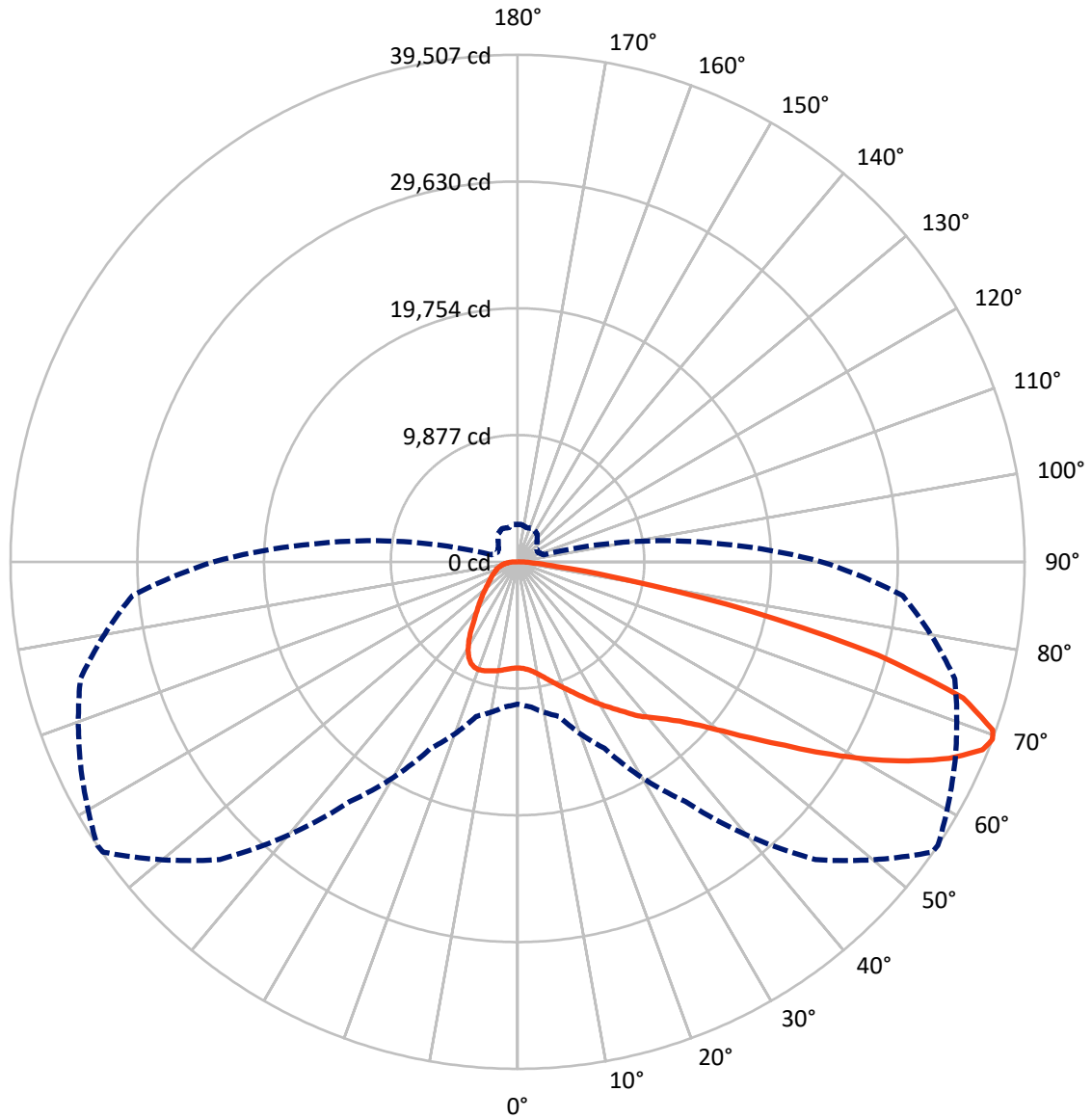
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14084.6	0.0	14084.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	49160.4	0.0	49160.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	63245.0	0.0	63245.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	812.1	1.3
10°-20°	2611.3	4.1
20°-30°	4558.4	7.2
30°-40°	6548.0	10.4
40°-50°	9062.0	14.3
50°-60°	13277.1	21.0
60°-70°	16187.3	25.6
70°-80°	8949.4	14.2
80°-90°	1239.5	2.0
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°	63245.0	100.0
0°-180°	63245.0	100.0



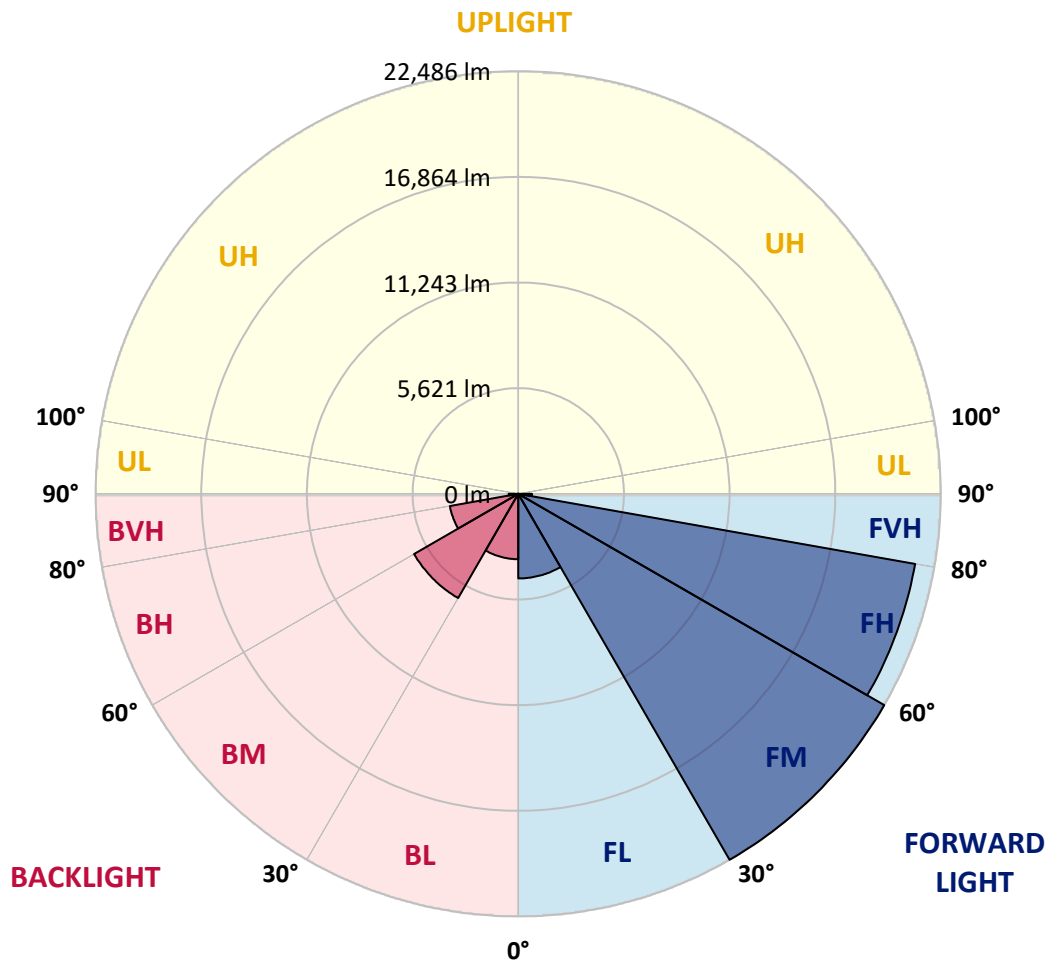
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4501.2	7.1			
FM (30°-60°)	22485.9	35.6			
FH (60°-80°)	21443.2	33.9			G5
FVH (80°-90°)	730.1	1.2			G4/750
BL (0°-30°)	3480.6	5.5	B4/5000		
BM (30°-60°)	6401.1	10.1	B4/8500		
BH (60°-80°)	3693.4	5.8	B4/5000		G4/5000
BVH (80°-90°)	509.4	0.8			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8268.3	8268.3	8268.3	8268.3	8268.3	8268.3	8268.3	8268.3	8268.3	8268.3	8268.3
2.5°	8320.6	8329.3	8322.8	8340.2	8320.6	8333.7	8322.8	8322.8	8316.3	8296.7	8274.9
5°	8451.3	8468.8	8457.9	8475.3	8451.3	8455.7	8436.1	8436.1	8416.5	8375.1	8331.5
7.5°	8656.1	8675.8	8667.0	8684.5	8651.8	8651.8	8625.6	8623.5	8584.2	8516.7	8466.6
10°	8900.2	8926.3	8917.6	8943.7	8917.6	8926.3	8900.2	8900.2	8847.9	8752.0	8688.8
12.5°	9255.3	9288.0	9264.0	9261.8	9250.9	9268.4	9246.6	9242.2	9194.3	9063.6	8976.4
15°	9730.3	9765.1	9715.0	9710.7	9649.7	9643.1	9643.1	9636.6	9606.1	9449.2	9305.4
17.5°	10277.1	10288.0	10244.5	10174.7	10096.3	10046.2	10039.7	10057.1	10057.1	9874.1	9645.3
20°	10813.1	10832.7	10797.9	10719.4	10619.2	10545.1	10492.8	10527.7	10525.5	10307.6	9983.0
22.5°	11397.0	11442.8	11390.5	11290.2	11172.6	11089.8	10998.3	11028.8	11031.0	10763.0	10314.2
25°	12153.0	12111.6	12079.0	11937.3	11769.6	11684.6	11599.6	11630.1	11621.4	11253.2	10656.2
27.5°	12821.9	12830.6	12787.0	12636.7	12442.8	12255.4	12251.1	12270.7	12238.0	11763.0	10978.7
30°	13599.7	13604.1	13543.1	13408.0	13196.6	12954.8	12898.2	12930.8	12861.1	12246.7	11318.6
32.5°	14373.2	14395.0	14327.4	14164.0	13994.1	13699.9	13586.6	13608.4	13434.1	12741.3	11669.4
35°	15050.8	15081.3	15059.5	14950.5	14765.3	14512.6	14377.5	14364.5	14148.8	13347.0	12133.4
37.5°	15741.4	15769.7	15745.8	15654.3	15580.2	15312.2	15240.3	15240.3	14865.6	13965.7	12723.9
40°	16451.7	16495.3	16466.9	16340.6	16277.4	16155.4	15983.3	15941.9	15536.6	14708.7	13686.9
42.5°	17111.9	17168.5	17281.8	17207.7	17079.2	17096.6	16750.2	16728.4	16432.1	15806.8	14896.1
45°	18048.7	18131.5	18323.2	18266.6	18240.4	18144.6	17732.8	17713.2	17599.9	17284.0	16397.2
47.5°	19070.5	19183.8	19530.3	19541.2	19822.2	19641.4	19081.4	19013.9	19040.0	19053.1	18229.5
50°	20011.8	20135.9	20704.6	20972.6	21634.9	21674.1	20778.7	20717.7	20820.1	21120.7	20364.7
52.5°	20763.4	20920.3	21630.6	22458.5	23593.6	23916.1	22868.1	22822.3	22898.6	23417.1	22778.8
55°	21314.6	21484.6	22258.0	23765.7	25578.4	26147.1	25273.4	25229.9	25277.8	25937.9	25404.1
57.5°	21443.2	21484.6	22606.6	24645.9	27253.9	28620.0	28216.9	28129.8	27894.5	28469.6	28301.9
60°	20839.7	21005.3	22319.0	24955.3	28550.3	31058.0	31293.3	31184.4	30524.2	30994.8	30859.7
62.5°	19615.2	19911.5	21244.9	24484.7	29057.9	33049.4	34310.9	34180.1	33042.8	33347.8	32698.6
65°	17615.1	17741.5	19142.4	22861.6	28413.0	34323.9	37001.6	36936.2	35504.8	35027.7	33038.5
67.5°	14037.6	14275.1	15464.7	19469.3	25774.5	34173.6	39082.3	39075.8	37112.7	35650.8	31833.6
69°	11089.8	11336.0	12468.9	16037.7	22807.1	32798.8	39430.9	39507.2	37565.9	35271.7	30112.4
70°	8841.3	9126.8	9904.6	13508.2	20173.0	30986.1	39141.1	39278.4	37478.7	34646.4	28524.1
72.5°	3762.7	3993.6	4547.0	6963.3	12294.6	23138.3	35788.0	36306.6	35459.1	31709.4	23574.0
75°	1642.8	1714.7	1965.2	2838.9	5457.8	12593.1	28036.1	28994.7	30319.4	26802.9	17560.7
77.5°	1202.7	1233.2	1370.4	1666.7	2448.9	4756.2	18029.1	18586.9	21865.9	19504.1	10771.7
80°	930.3	952.1	1058.9	1224.5	1599.2	1923.8	8222.6	8701.9	12294.6	10017.9	4486.0
82.5°	740.8	756.0	830.1	902.0	1104.6	1165.6	2730.0	3028.5	4538.3	2767.0	1187.4
85°	688.5	705.9	732.1	658.0	708.1	684.1	1180.9	1235.3	1370.4	1087.2	496.8
87.5°	311.6	368.2	725.5	512.0	376.9	300.7	483.7	505.5	568.7	570.8	220.1
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°	8268.3	8268.3	8268.3	8268.3	8268.3	8268.3	8268.3	8268.3	8268.3	8268.3	8268.3
2.5°	8287.9	8281.4	8292.3	8266.2	8298.8	8296.7	8285.8	8290.1	8311.9	8309.7	8311.9
5°	8338.1	8333.7	8346.8	8327.2	8366.4	8379.4	8381.6	8401.2	8425.2	8431.7	8431.7
7.5°	8464.4	8464.4	8471.0	8444.8	8471.0	8468.8	8457.9	8477.5	8501.5	8503.6	8501.5
10°	8682.3	8684.5	8673.6	8606.0	8584.2	8525.4	8471.0	8473.1	8503.6	8527.6	8534.1
12.5°	8956.8	8948.1	8900.2	8776.0	8684.5	8564.6	8508.0	8505.8	8536.3	8555.9	8562.5
15°	9270.6	9246.6	9122.4	8919.8	8758.5	8640.9	8549.4	8527.6	8510.2	8488.4	8490.6
17.5°	9566.9	9512.4	9305.4	9024.4	8854.4	8697.5	8521.1	8379.4	8281.4	8224.8	8207.3
20°	9867.5	9760.8	9462.3	9122.4	8906.7	8621.3	8281.4	7993.8	7815.2	7732.4	7717.1
22.5°	10142.1	9969.9	9608.3	9224.8	8865.3	8364.2	7830.4	7412.1	7163.7	7052.6	7061.3
25°	10410.0	10170.4	9760.8	9296.7	8656.1	7911.0	7202.9	6688.7	6401.1	6277.0	6272.6
27.5°	10645.3	10373.0	9926.4	9237.9	8266.2	7266.1	6460.0	5958.9	5719.2	5612.4	5595.0
30°	10915.5	10627.9	10146.4	9013.5	7695.3	6521.0	5734.5	5381.5	5211.6	5104.8	5085.2
32.5°	11244.5	10974.3	10327.2	8606.0	6965.4	5743.2	5168.0	4921.8	4767.1	4647.3	4625.5
35°	11723.8	11431.9	10373.0	8022.1	6163.7	5128.8	4751.8	4499.1	4289.9	4135.3	4120.0
37.5°	12325.2	12004.9	10268.4	7266.1	5385.9	4730.1	4405.4	4093.9	3821.5	3603.6	3568.8
40°	13192.3	12708.6	9978.6	6394.6	4812.8	4422.8	4067.7	3712.6	3374.9	3120.0	3069.8
42.5°	14233.7	13534.4	9534.2	5527.5	4392.3	4111.3	3732.2	3292.1	2969.6	2788.8	2762.6
45°	15558.4	14392.8	8917.6	4769.3	3978.4	3799.7	3370.5	2965.3	2764.8	2631.9	2610.1
47.5°	17070.5	15355.8	8270.5	4152.7	3627.6	3507.8	3080.7	2819.3	2660.2	2555.7	2536.1
50°	18928.9	16443.0	7584.2	3647.2	3274.7	3157.0	2943.5	2738.7	2612.3	2531.7	2512.1
52.5°	21024.9	17669.6	7089.6	3248.5	2982.7	2897.7	2871.6	2695.1	2592.7	2531.7	2512.1
55°	23282.1	18918.0	6555.8	2913.0	2730.0	2753.9	2823.7	2699.5	2629.7	2555.7	2527.3
57.5°	25541.4	20207.8	5961.0	2629.7	2529.5	2647.2	2791.0	2708.2	2649.4	2577.5	2551.3
60°	27328.0	21024.9	5039.4	2392.3	2370.5	2529.5	2712.5	2642.8	2566.6	2568.7	2564.4
62.5°	28162.4	20981.3	4022.0	2180.9	2211.4	2370.5	2586.2	2540.4	2477.2	2562.2	2568.7
65°	27694.0	19935.5	3130.9	1989.2	2041.5	2204.9	2455.4	2490.3	2512.1	2675.5	2697.3
67.5°	25728.8	17900.6	2424.9	1821.4	1886.8	2091.6	2468.5	2712.5	2740.9	2913.0	2910.8
69°	23696.0	15992.0	2106.8	1734.3	1810.5	2119.9	2638.5	2854.2	2747.4	2930.4	2904.3
70°	21992.2	14482.1	1936.9	1675.5	1775.7	2170.0	2751.8	2852.0	2714.7	2871.6	2828.0
72.5°	16937.6	10418.8	1642.8	1566.5	1658.0	2076.3	2784.4	2788.8	2638.5	2669.0	2594.9
75°	11617.1	6584.2	1433.6	1418.4	1479.4	1871.5	2679.9	2664.6	2440.2	2396.6	2335.6
77.5°	6405.5	3344.4	1217.9	1276.7	1318.1	1658.0	2435.8	2414.0	2228.9	2137.3	2115.6
80°	2470.7	1464.1	1028.4	1135.1	1161.3	1435.8	2135.2	2115.6	1960.9	1843.2	1810.5
82.5°	932.5	766.9	849.7	982.6	973.9	1185.2	1808.4	1797.5	1647.1	1475.0	1422.7
85°	431.4	459.7	673.2	810.5	747.3	878.0	1446.7	1466.3	1283.3	1078.5	1078.5
87.5°	183.0	257.1	477.1	612.2	503.3	592.6	1061.0	1013.1	930.3	644.9	605.7
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)