

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: P321011

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-750-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51325 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

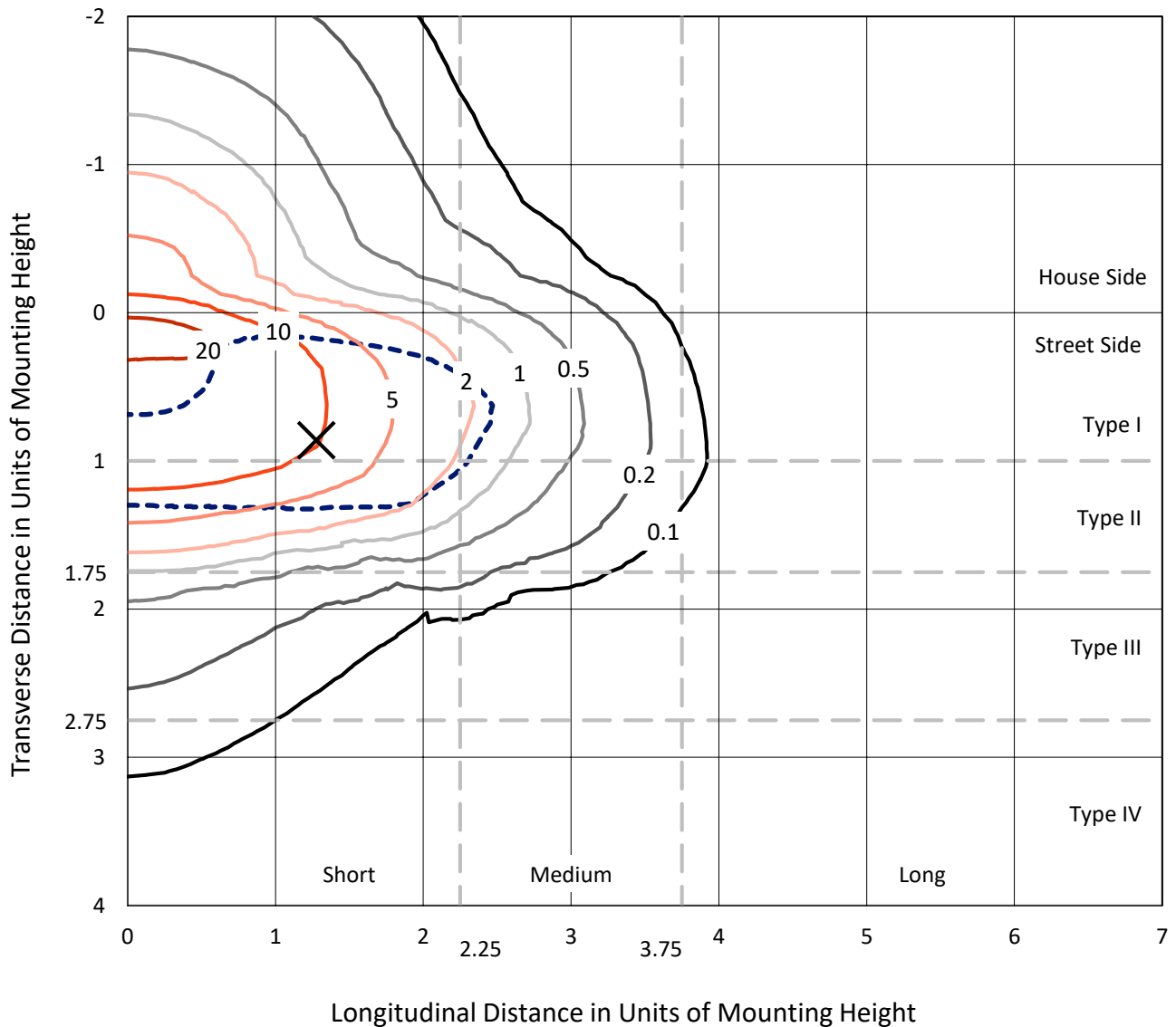
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

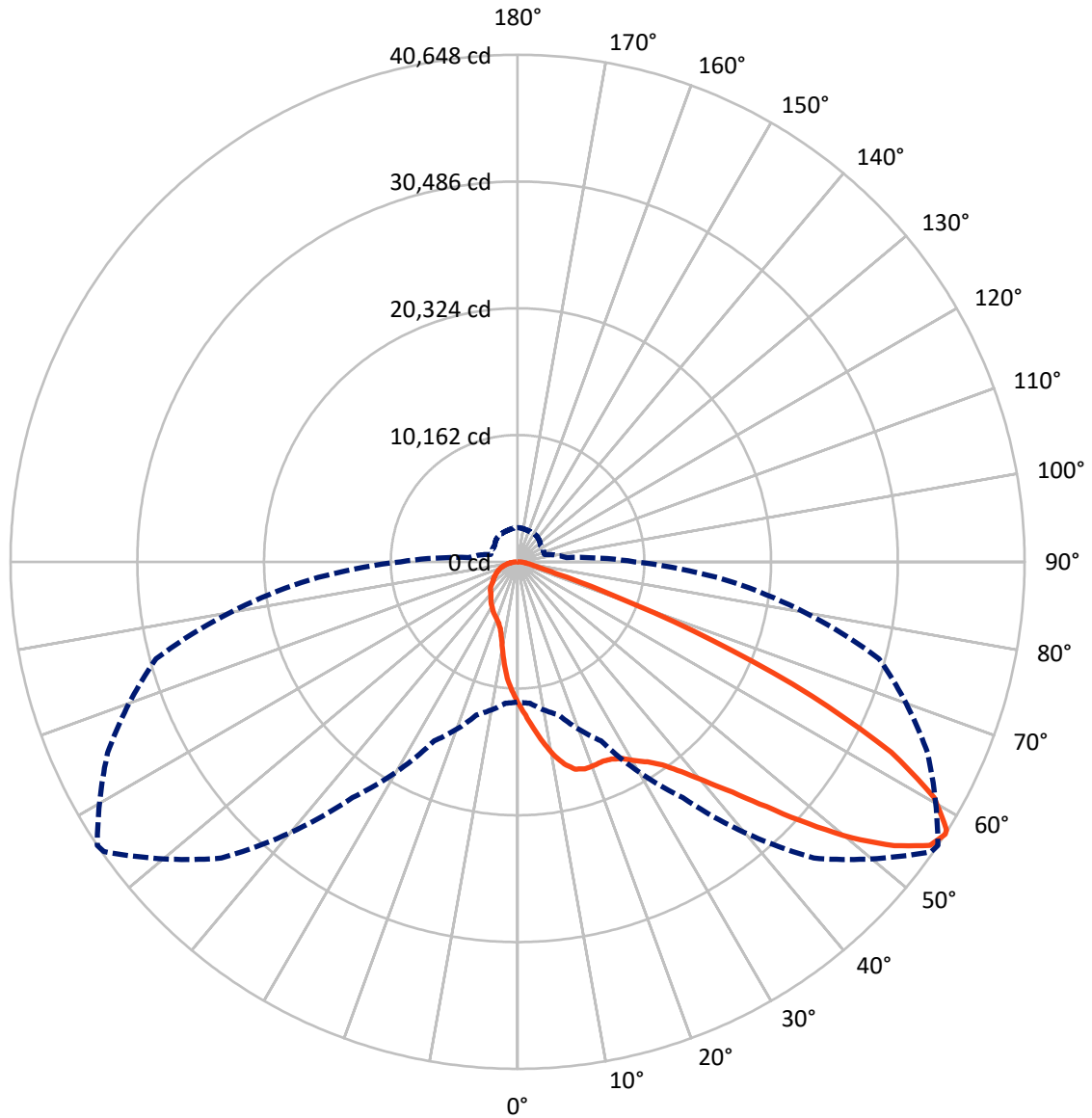
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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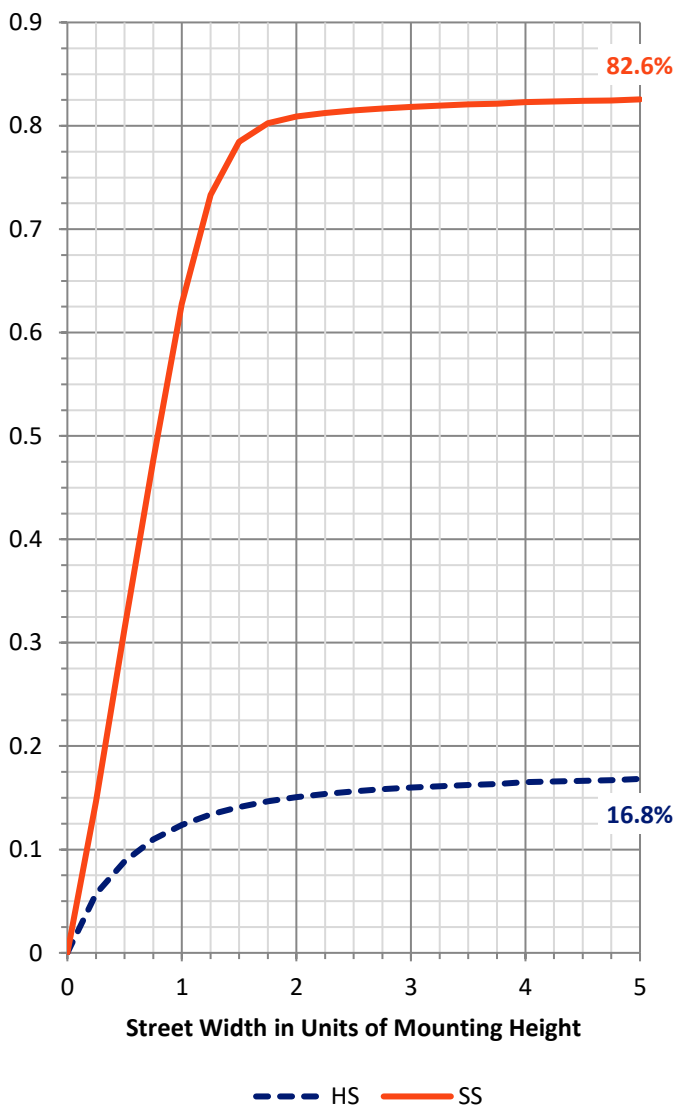
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8847.3	0.0	8847.3
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	42477.7	0.0	42477.7
	% Fixture	82.8	0.0	82.8
Total	Lumens	51325.0	0.0	51325.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1087.5	2.1
10°-20°	3074.5	6.0
20°-30°	5007.7	9.8
30°-40°	7486.0	14.6
40°-50°	11354.7	22.1
50°-60°	12726.6	24.8
60°-70°	7516.8	14.6
70°-80°	2462.8	4.8
80°-90°	608.5	1.2
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°	51325.0	100.0
0°-180°	51325.0	100.0

Coefficient of Utilization

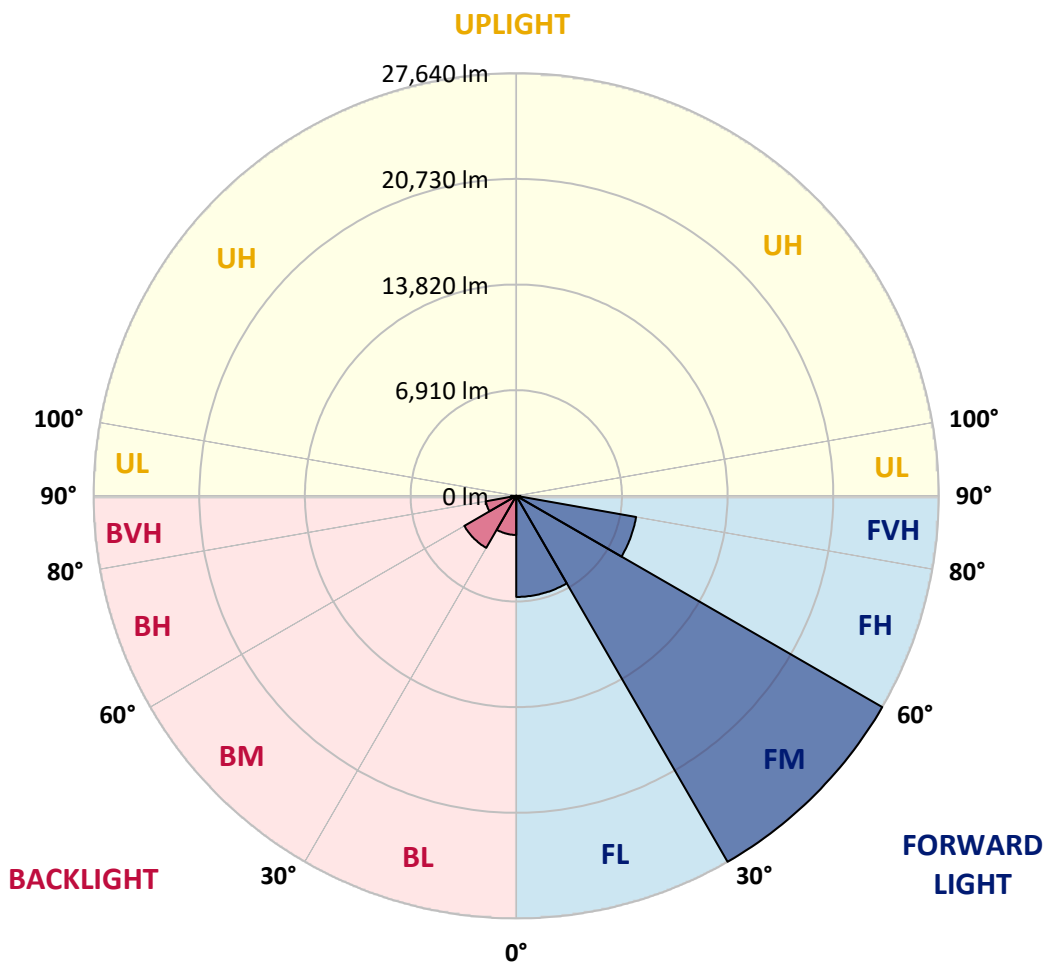


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6611.4	12.9			
FM (30°-60°)	27640.2	53.9			
FH (60°-80°)	7958.1	15.5			G4/12000
FVH (80°-90°)	267.9	0.5			G3/500
BL (0°-30°)	2558.2	5.0	B4/5000		
BM (30°-60°)	3927.0	7.7	B3/5000		
BH (60°-80°)	2021.5	3.9	B3/2500		G3/2500
BVH (80°-90°)	340.5	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	11383.9	11383.9	11383.9	11383.9	11383.9	11383.9	11383.9	11383.9	11383.9	11383.9	11383.9
2.5°	13071.9	13191.9	13139.0	12955.5	12814.4	12615.1	12392.9	12325.8	12091.2	11828.4	11512.7
5°	15140.9	15081.0	14994.5	14708.8	14407.2	14056.2	13498.8	13410.6	12888.5	12294.1	11666.1
7.5°	16319.2	16313.9	16262.8	16095.2	15820.0	15361.4	14689.4	14585.3	13796.9	12840.9	11867.2
10°	16148.1	16135.8	16220.4	16395.0	16478.0	16382.7	15816.5	15712.4	14744.1	13445.9	12100.1
12.5°	15176.2	15183.3	15319.1	15686.0	16185.1	16784.9	16693.1	16642.0	15726.5	14130.3	12382.3
15°	14419.5	14435.4	14543.0	14862.3	15451.4	16539.7	17225.8	17243.5	16677.3	14885.2	12712.1
17.5°	14087.9	14121.4	14170.8	14394.8	14934.6	16051.1	17352.8	17448.1	17509.8	15668.3	13029.6
20°	14193.8	14225.5	14239.6	14382.5	14825.2	15754.8	17264.6	17435.7	18148.3	16405.6	13347.1
22.5°	14668.2	14687.6	14696.5	14733.5	15077.4	15839.4	17206.4	17386.3	18610.5	17067.1	13587.0
25°	15454.9	15440.8	15384.4	15336.7	15567.8	16174.6	17340.5	17511.6	18986.2	17666.8	13744.0
27.5°	16396.8	16379.2	16269.8	16139.3	16271.6	16696.7	17726.8	17862.6	19323.1	18227.7	13823.3
30°	17527.4	17481.6	17275.2	17120.0	17171.1	17479.8	18363.5	18487.0	19843.4	18864.4	13901.0
32.5°	18834.5	18785.1	18487.0	18229.5	18229.5	18487.0	19019.7	19122.0	20284.4	19584.1	14026.2
35°	20471.3	20409.6	20021.5	19589.4	19467.7	19598.2	19913.9	19986.3	21078.1	20490.7	14253.7
37.5°	22401.0	22318.1	21815.4	21236.8	20970.5	20963.4	21191.0	21339.1	22346.3	21681.3	14640.0
40°	24335.9	24277.7	23838.5	23383.4	22861.3	22693.8	23044.8	23090.6	24004.3	23159.4	15133.9
42.5°	25831.7	25821.1	25740.0	25799.9	25265.5	24926.8	25202.0	25239.0	26029.2	24759.3	15659.5
45°	26621.9	26639.5	27032.9	27904.2	28101.8	27854.8	27990.6	28001.2	28343.4	26373.2	16141.1
47.5°	25988.7	26080.4	27075.2	29024.3	30641.7	31461.9	31236.1	31366.7	30587.0	27759.6	16518.5
50°	23521.0	23633.9	25327.2	28525.1	31827.0	34952.6	34834.4	34804.4	32396.8	28775.6	16723.1
52.5°	20464.3	20552.5	21949.4	25930.5	30957.5	36882.2	37967.0	37811.8	34005.4	29535.8	16761.9
55°	15809.4	15947.0	17285.8	20751.8	27440.3	36145.0	40270.6	40131.3	35471.2	29934.4	16716.1
57°	11239.3	11383.9	12713.9	15837.7	23083.6	33592.7	40499.9	40648.1	36263.1	30001.4	16767.2
57.5°	10029.3	10177.5	11495.1	14528.9	21725.4	32670.2	40302.4	40549.3	36406.0	29990.9	16795.4
60°	5049.9	5106.4	5946.0	8110.2	13733.4	26412.0	37725.4	38362.1	36534.8	29472.3	16917.2
62.5°	3139.7	3099.1	3072.6	3735.8	6681.5	17515.1	32407.3	33633.2	34070.7	28216.4	16622.6
65°	2760.4	2684.6	2393.6	2340.6	2950.9	8507.1	24404.7	25930.5	28805.5	26237.4	15920.6
67.5°	2592.9	2518.8	2190.7	1993.2	1994.9	3372.5	15151.5	16869.5	22439.8	22891.3	14264.3
70°	2420.0	2353.0	2046.1	1813.2	1698.6	1867.9	6970.8	8274.3	14627.7	17993.1	11921.9
72.5°	2197.8	2151.9	1860.9	1621.0	1499.3	1398.7	2668.7	3152.0	8468.3	12084.2	8279.5
75°	1964.9	1922.6	1673.9	1444.6	1296.4	1100.6	1502.8	1619.2	4302.0	6182.3	4076.3
77.5°	1709.2	1684.5	1488.7	1277.0	1158.9	911.9	1063.6	1120.0	1845.0	2651.1	2044.3
80°	1359.9	1407.6	1301.7	1137.7	1028.3	730.2	753.2	790.2	1074.2	1294.7	1160.6
82.5°	885.5	968.4	1019.5	924.3	846.7	575.0	541.5	557.4	700.3	790.2	504.5
85°	368.6	414.5	670.3	605.0	562.7	419.8	363.4	370.4	433.9	449.8	206.4
87.5°	164.0	174.6	294.6	276.9	238.1	144.6	155.2	169.3	231.1	218.7	79.4
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°	11383.9	11383.9	11383.9	11383.9	11383.9	11383.9	11383.9	11383.9	11383.9	11383.9	11383.9
2.5°	11394.5	11246.4	10992.4	10711.9	10482.6	10299.2	10114.0	9987.0	9838.8	9759.4	9718.9
5°	11403.3	11112.3	10577.8	10029.3	9538.9	9090.9	8664.1	8336.0	8029.1	7863.3	7817.4
7.5°	11440.4	11002.9	10138.6	9235.6	8364.2	7568.7	6954.9	6570.4	6293.4	6170.0	6134.7
10°	11470.4	10874.2	9595.4	8258.4	7073.1	6267.0	5790.7	5575.6	5480.3	5464.4	5448.6
12.5°	11540.9	10741.9	9023.9	7238.9	6069.4	5512.1	5346.2	5332.1	5358.6	5397.4	5397.4
15°	11652.0	10611.4	8371.3	6364.0	5430.9	5235.1	5268.6	5346.2	5418.6	5478.5	5487.4
17.5°	11733.2	10450.9	7669.2	5663.7	5090.5	5143.4	5263.3	5372.7	5446.8	5505.0	5510.3
20°	11791.4	10202.1	6919.6	5129.3	4894.7	5058.7	5208.7	5305.7	5356.8	5415.0	5423.9
22.5°	11761.4	9868.8	6254.6	4746.5	4736.0	4935.3	5078.1	5194.6	5155.8	5099.3	5136.4
25°	11616.8	9410.2	5570.3	4460.8	4568.4	4769.5	4945.9	4868.2	4737.7	4713.0	4727.1
27.5°	11359.2	8824.6	4937.0	4196.2	4374.4	4616.0	4605.4	4527.8	4482.0	4450.2	4469.6
30°	11082.3	8189.6	4383.2	3965.2	4159.2	4358.5	4317.9	4316.2	4270.3	4219.1	4243.8
32.5°	10808.9	7551.1	3944.0	3774.7	3996.9	4023.4	4111.6	4138.0	4048.1	3940.5	3933.4
35°	10570.8	6947.8	3610.6	3601.8	3801.1	3804.6	3933.4	3896.4	3672.3	3561.2	3561.2
37.5°	10392.6	6346.4	3356.6	3446.6	3543.6	3635.3	3700.6	3547.1	3510.1	3448.3	3446.6
40°	10315.0	5817.2	3197.9	3328.4	3361.9	3478.3	3310.8	3370.7	3388.4	3356.6	3356.6
42.5°	10233.9	5356.8	3060.3	3238.4	3233.1	3217.3	3132.6	3210.2	3280.8	3282.5	3277.2
45°	10152.8	4960.0	2938.6	3046.2	3120.3	2949.2	2965.0	3047.9	3146.7	3182.0	3182.0
47.5°	10062.8	4646.0	2827.5	2843.3	2958.0	2843.3	2831.0	2894.5	3010.9	3067.3	3079.7
50°	9865.3	4363.8	2700.5	2665.2	2696.9	2735.7	2746.3	2776.3	2905.1	2995.0	3016.2
52.5°	9591.9	4111.6	2538.2	2501.1	2501.1	2647.5	2696.9	2705.8	2815.1	2922.7	2943.9
55°	9364.3	3951.0	2370.6	2363.6	2356.5	2554.1	2638.7	2652.8	2728.7	2813.4	2823.9
57°	9380.2	3938.7	2241.9	2248.9	2247.2	2458.8	2584.1	2614.0	2652.8	2725.2	2737.5
57.5°	9389.0	3947.5	2213.6	2217.2	2215.4	2432.4	2568.2	2601.7	2631.7	2707.5	2719.9
60°	9521.3	3970.4	2099.0	2060.2	2069.0	2291.2	2478.2	2520.6	2540.0	2640.5	2656.4
62.5°	9325.5	3868.1	2007.3	1913.8	1913.8	2143.1	2353.0	2420.0	2450.0	2585.8	2612.3
65°	8757.5	3580.6	1899.7	1748.0	1765.6	1994.9	2203.1	2312.4	2358.3	2527.6	2555.8
67.5°	7880.9	3247.3	1785.0	1599.8	1617.5	1839.7	2047.8	2166.0	2238.3	2464.1	2487.0
70°	6739.7	2839.8	1629.8	1442.8	1464.0	1670.4	1864.4	1998.4	2106.0	2404.1	2411.2
72.5°	4968.8	2328.3	1412.8	1270.0	1292.9	1472.8	1679.2	1834.4	1979.0	2254.2	2250.7
75°	2954.5	1820.3	1173.0	1095.4	1111.2	1278.8	1511.6	1700.4	1917.3	2196.0	2229.5
77.5°	1792.1	1370.5	956.0	917.2	936.6	1107.7	1391.7	1592.8	1890.9	2070.8	2060.2
80°	1083.0	978.9	763.7	739.1	758.5	947.2	1287.6	1511.6	1652.7	1769.1	1769.1
82.5°	566.2	597.9	560.9	541.5	568.0	769.0	1171.2	1319.4	1460.5	1254.1	1171.2
85°	231.1	312.2	340.4	338.7	354.5	532.7	1010.7	1128.9	941.9	894.3	915.4
87.5°	77.6	132.3	165.8	142.9	149.9	335.1	700.3	545.0	647.3	451.5	428.6
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)