

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: P320971

Luminaire Tested: **GAN-SA7C-740-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320971
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-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51326 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

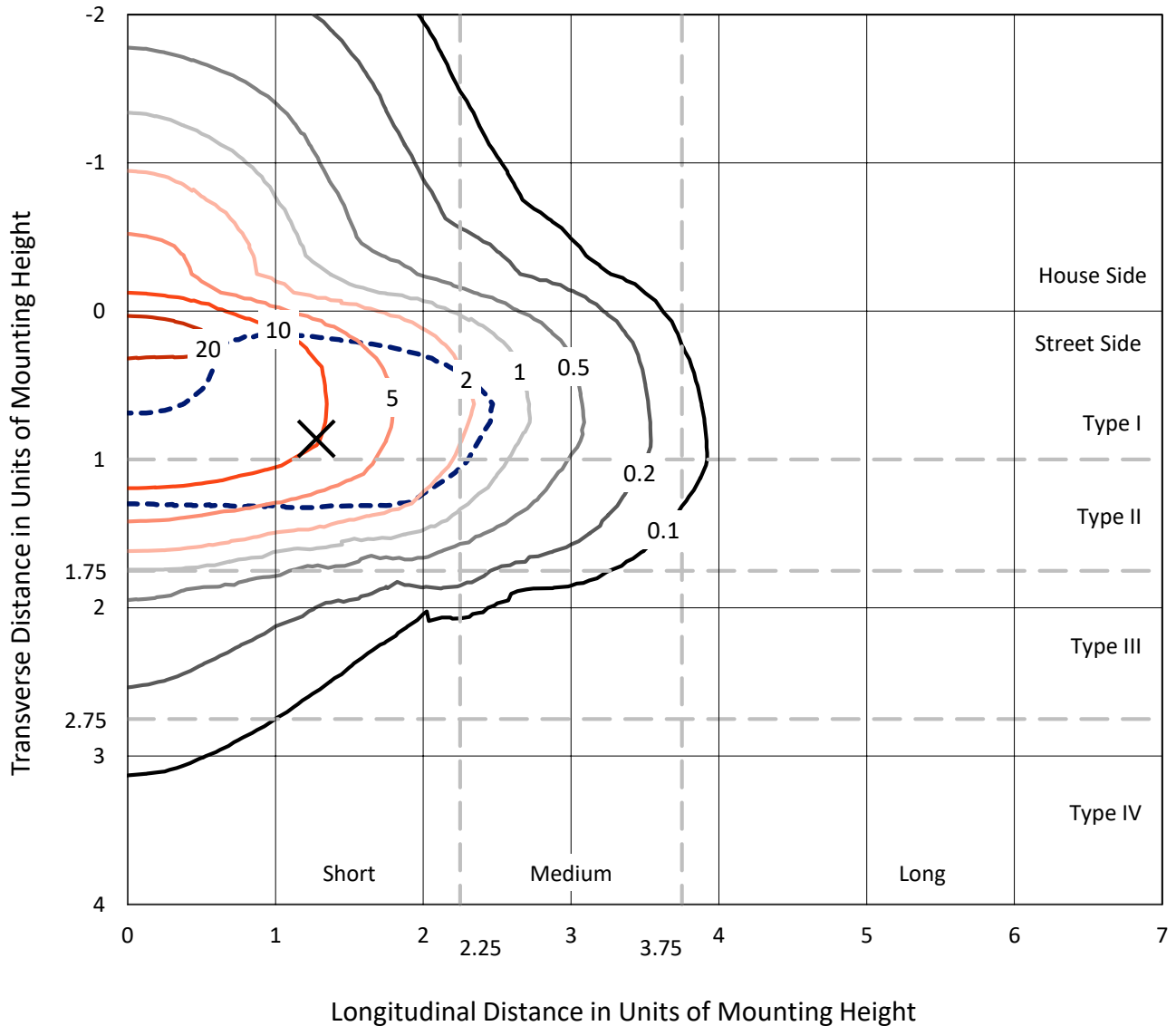
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

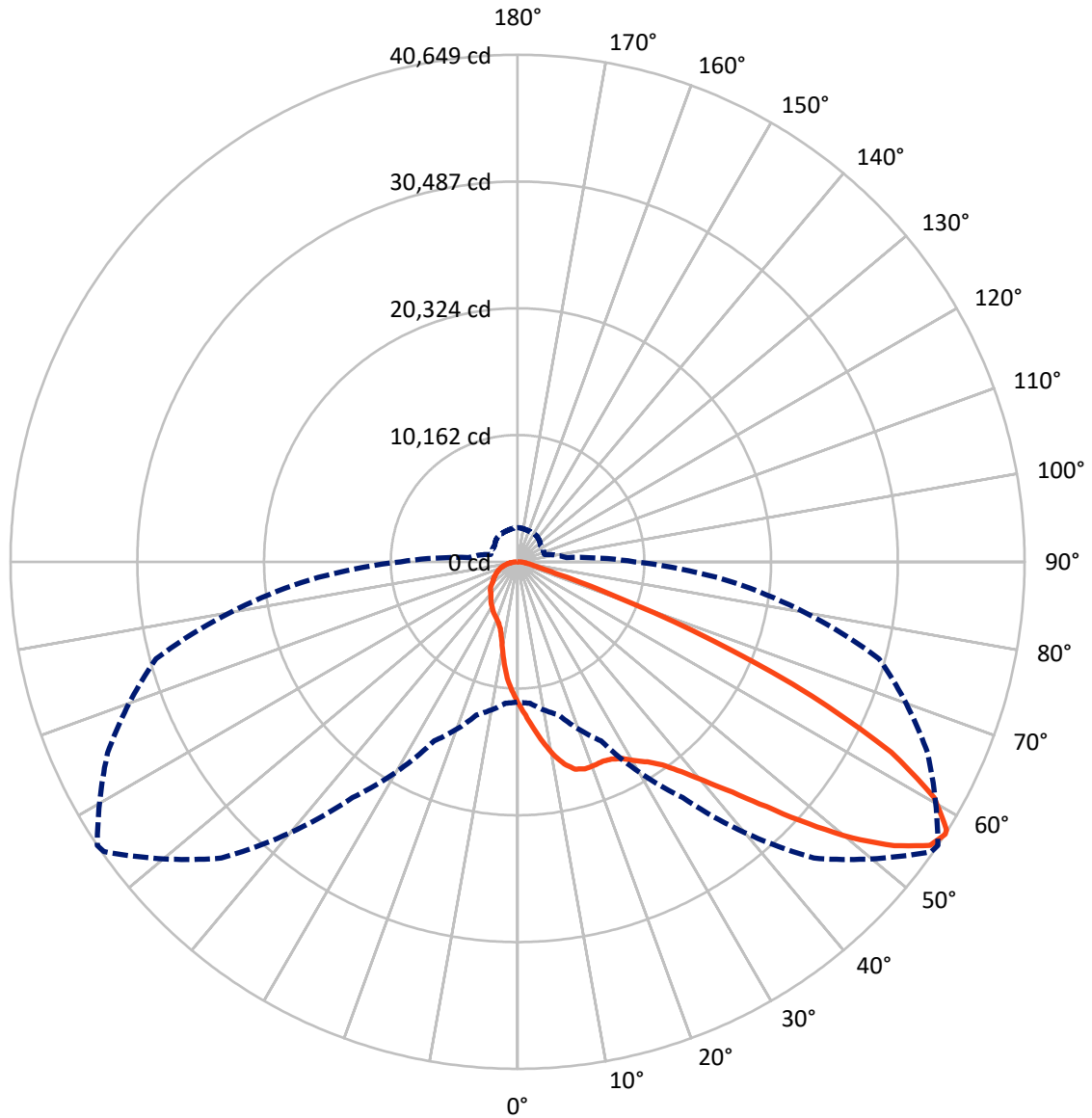
✕ Max cd
 - - - 1/2 Max cd



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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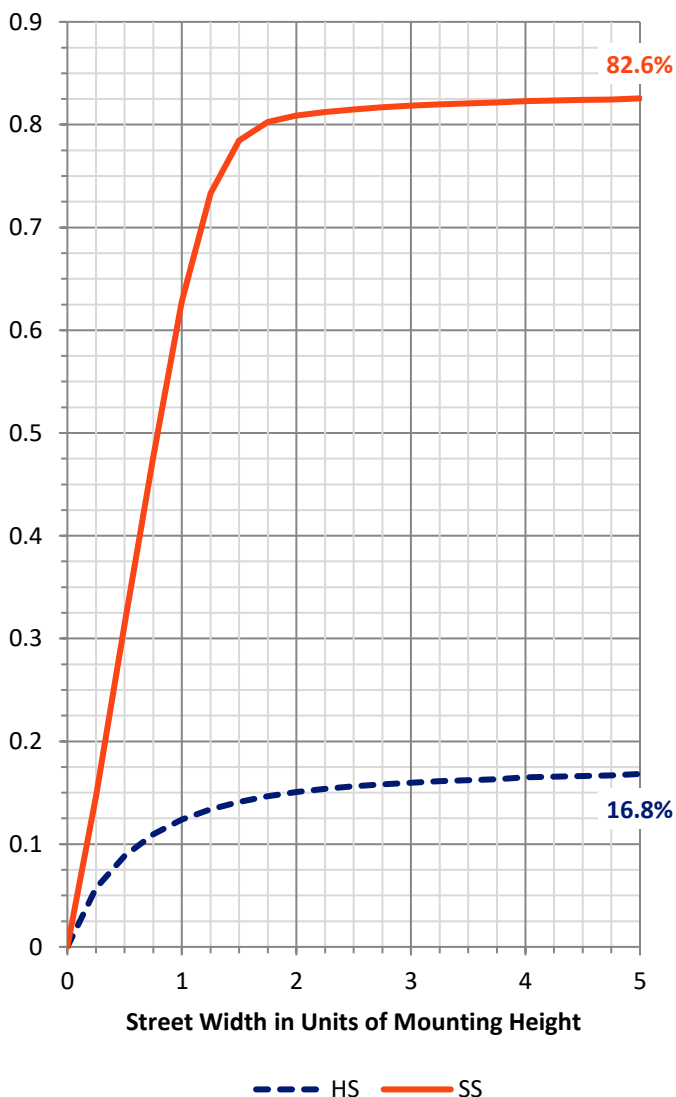
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8847.5	0.0	8847.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	42478.5	0.0	42478.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	51326.0	0.0	51326.0
	% 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°	5007.8	9.8
30°-40°	7486.1	14.6
40°-50°	11354.9	22.1
50°-60°	12726.8	24.8
60°-70°	7517.0	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°	51326.0	100.0
0°-180°	51326.0	100.0

Coefficient of Utilization

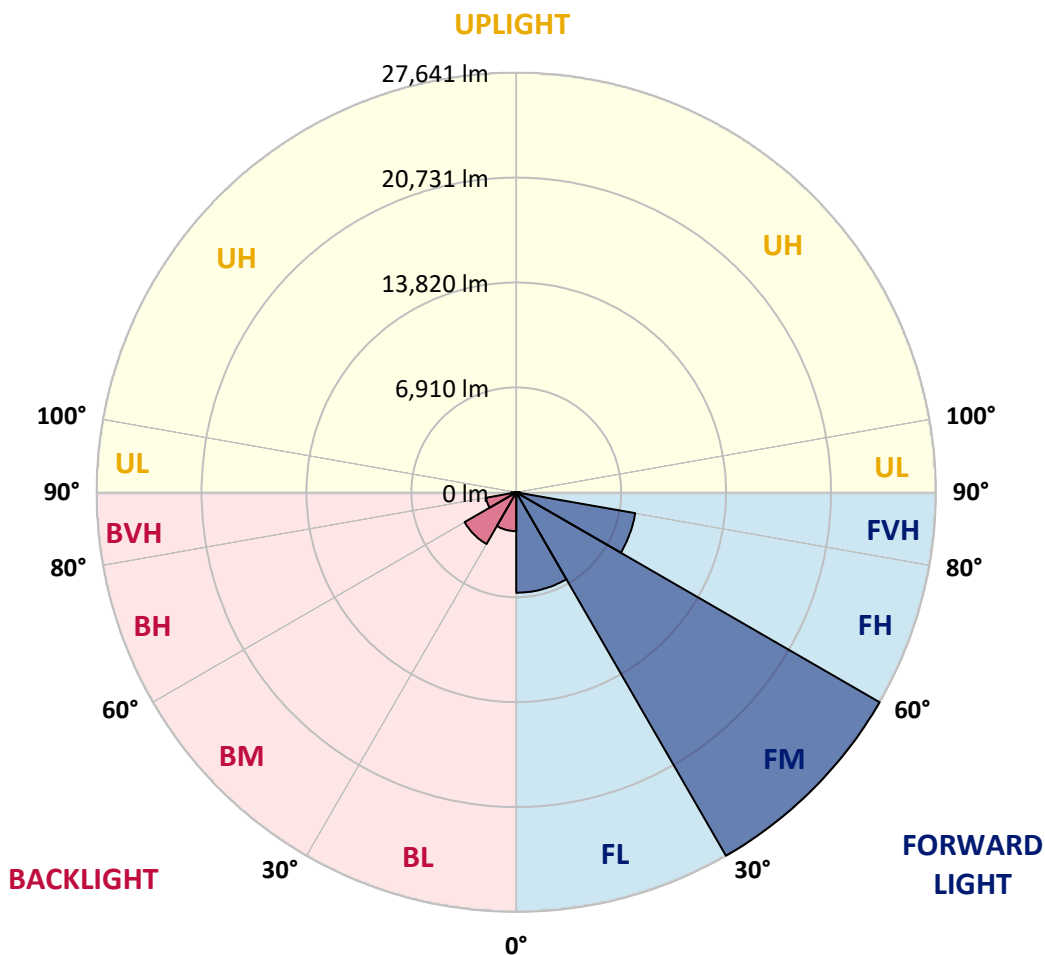


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6611.6	12.9			
FM (30°-60°)	27640.8	53.9			
FH (60°-80°)	7958.3	15.5			G4/12000
FVH (80°-90°)	267.9	0.5			G3/500
BL (0°-30°)	2558.3	5.0	B4/5000		
BM (30°-60°)	3927.1	7.7	B3/5000		
BH (60°-80°)	2021.6	3.9	B3/2500		G3/2500
BVH (80°-90°)	340.6	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°	11384.2	11384.2	11384.2	11384.2	11384.2	11384.2	11384.2	11384.2	11384.2	11384.2	11384.2
2.5°	13072.2	13192.1	13139.2	12955.8	12814.7	12615.3	12393.1	12326.1	12091.5	11828.7	11512.9
5°	15141.2	15081.3	14994.8	14709.1	14407.5	14056.4	13499.1	13410.9	12888.8	12294.3	11666.4
7.5°	16319.5	16314.2	16263.1	16095.5	15820.3	15361.7	14689.7	14585.6	13797.2	12841.1	11867.5
10°	16148.4	16136.1	16220.7	16395.4	16478.3	16383.0	15816.8	15712.7	14744.4	13446.1	12100.3
12.5°	15176.5	15183.6	15319.4	15686.3	16185.5	16785.2	16693.5	16642.3	15726.9	14130.5	12382.5
15°	14419.8	14435.7	14543.3	14862.5	15451.7	16540.0	17226.2	17243.8	16677.6	14885.5	12712.4
17.5°	14088.2	14121.7	14171.1	14395.1	14934.9	16051.4	17353.2	17448.4	17510.1	15668.6	13029.9
20°	14194.0	14225.8	14239.9	14382.8	14825.5	15755.1	17265.0	17436.1	18148.7	16406.0	13347.4
22.5°	14668.5	14687.9	14696.7	14733.8	15077.7	15839.7	17206.8	17386.7	18610.8	17067.4	13587.3
25°	15455.2	15441.1	15384.7	15337.0	15568.1	16174.9	17340.8	17511.9	18986.5	17667.1	13744.2
27.5°	16397.1	16379.5	16270.1	16139.6	16271.9	16697.0	17727.1	17862.9	19323.4	18228.1	13823.6
30°	17527.8	17481.9	17275.5	17120.3	17171.5	17480.2	18363.9	18487.3	19843.8	18864.8	13901.2
32.5°	18834.8	18785.4	18487.3	18229.8	18229.8	18487.3	19020.0	19122.3	20284.7	19584.5	14026.5
35°	20471.7	20410.0	20021.9	19589.8	19468.1	19598.6	19914.3	19986.7	21078.5	20491.1	14254.0
37.5°	22401.4	22318.5	21815.8	21237.2	20970.9	20963.8	21191.4	21339.6	22346.7	21681.8	14640.3
40°	24336.4	24278.2	23839.0	23383.9	22861.8	22694.2	23045.2	23091.1	24004.8	23159.9	15134.2
42.5°	25832.2	25821.6	25740.5	25800.4	25266.0	24927.3	25202.5	25239.5	26029.7	24759.7	15659.8
45°	26622.4	26640.0	27033.4	27904.8	28102.3	27855.4	27991.2	28001.8	28344.0	26373.7	16141.4
47.5°	25989.2	26080.9	27075.7	29024.8	30642.3	31462.5	31236.7	31367.3	30587.6	27760.1	16518.8
50°	23521.5	23634.4	25327.7	28525.6	31827.7	34953.3	34835.1	34805.1	32397.4	28776.1	16723.5
52.5°	20464.7	20552.9	21949.9	25931.0	30958.1	36883.0	37967.8	37812.5	34006.1	29536.4	16762.3
55°	15809.8	15947.3	17286.1	20752.2	27440.9	36145.7	40271.4	40132.1	35471.9	29935.0	16716.4
57°	11239.5	11384.2	12714.1	15838.0	23084.0	33593.3	40500.7	40648.9	36263.8	30002.0	16767.5
57.5°	10029.5	10177.7	11495.3	14529.2	21725.8	32670.8	40303.1	40550.1	36406.7	29991.4	16795.8
60°	5050.0	5106.5	5946.1	8110.4	13733.7	26412.5	37726.1	38362.9	36535.5	29472.9	16917.5
62.5°	3139.7	3099.2	3072.7	3735.9	6681.6	17515.4	32408.0	33633.9	34071.3	28217.0	16622.9
65°	2760.5	2684.6	2393.6	2340.7	2951.0	8507.2	24405.2	25931.0	28806.1	26237.9	15920.9
67.5°	2592.9	2518.8	2190.8	1993.2	1995.0	3372.6	15151.8	16869.9	22440.2	22891.8	14264.6
70°	2420.1	2353.0	2046.1	1813.3	1698.6	1868.0	6970.9	8274.4	14627.9	17993.5	11922.1
72.5°	2197.8	2151.9	1860.9	1621.0	1499.3	1398.8	2668.8	3152.1	8468.4	12084.4	8279.7
75°	1965.0	1922.6	1673.9	1444.6	1296.5	1100.7	1502.8	1619.3	4302.1	6182.4	4076.4
77.5°	1709.2	1684.5	1488.7	1277.1	1158.9	911.9	1063.6	1120.1	1845.0	2651.1	2044.3
80°	1360.0	1407.6	1301.8	1137.7	1028.3	730.3	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°	368.7	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°	11384.2	11384.2	11384.2	11384.2	11384.2	11384.2	11384.2	11384.2	11384.2	11384.2	11384.2
2.5°	11394.7	11246.6	10992.6	10712.1	10482.8	10299.4	10114.2	9987.2	9839.0	9759.6	9719.0
5°	11403.6	11112.5	10578.1	10029.5	9539.1	9091.1	8664.2	8336.1	8029.2	7863.4	7817.6
7.5°	11440.6	11003.2	10138.8	9235.7	8364.4	7568.9	6955.0	6570.5	6293.6	6170.1	6134.8
10°	11470.6	10874.4	9595.6	8258.5	7073.2	6267.1	5790.9	5575.7	5480.4	5464.5	5448.7
12.5°	11541.1	10742.1	9024.1	7239.0	6069.5	5512.2	5346.4	5332.2	5358.7	5397.5	5397.5
15°	11652.3	10611.6	8371.4	6364.1	5431.0	5235.2	5268.7	5346.4	5418.7	5478.6	5487.5
17.5°	11733.4	10451.1	7669.4	5663.9	5090.6	5143.5	5263.5	5372.8	5446.9	5505.1	5510.4
20°	11791.6	10202.3	6919.7	5129.4	4894.8	5058.8	5208.8	5305.8	5356.9	5415.1	5424.0
22.5°	11761.6	9869.0	6254.8	4746.6	4736.0	4935.4	5078.2	5194.7	5155.9	5099.4	5136.5
25°	11617.0	9410.4	5570.4	4460.9	4568.5	4769.6	4946.0	4868.3	4737.8	4713.1	4727.2
27.5°	11359.5	8824.7	4937.1	4196.3	4374.5	4616.1	4605.5	4527.9	4482.0	4450.3	4469.7
30°	11082.5	8189.7	4383.3	3965.2	4159.3	4358.6	4318.0	4316.2	4270.4	4219.2	4243.9
32.5°	10809.1	7551.2	3944.1	3774.7	3997.0	4023.4	4111.6	4138.1	4048.1	3940.5	3933.5
35°	10571.0	6948.0	3610.7	3601.9	3801.2	3804.7	3933.5	3896.4	3672.4	3561.3	3561.3
37.5°	10392.8	6346.5	3356.7	3446.6	3543.7	3635.4	3700.6	3547.2	3510.1	3448.4	3446.6
40°	10315.2	5817.3	3197.9	3328.5	3362.0	3478.4	3310.8	3370.8	3388.4	3356.7	3356.7
42.5°	10234.1	5356.9	3060.4	3238.5	3233.2	3217.3	3132.7	3210.3	3280.8	3282.6	3277.3
45°	10153.0	4960.1	2938.6	3046.2	3120.3	2949.2	2965.1	3048.0	3146.8	3182.1	3182.1
47.5°	10063.0	4646.1	2827.5	2843.4	2958.0	2843.4	2831.0	2894.5	3011.0	3067.4	3079.8
50°	9865.4	4363.9	2700.5	2665.2	2697.0	2735.8	2746.4	2776.4	2905.1	2995.1	3016.3
52.5°	9592.0	4111.6	2538.2	2501.2	2501.2	2647.6	2697.0	2705.8	2815.2	2922.8	2943.9
55°	9364.5	3951.1	2370.7	2363.6	2356.6	2554.1	2638.8	2652.9	2728.7	2813.4	2824.0
57°	9380.4	3938.8	2241.9	2249.0	2247.2	2458.9	2584.1	2614.1	2652.9	2725.2	2737.6
57.5°	9389.2	3947.6	2213.7	2217.2	2215.4	2432.4	2568.2	2601.7	2631.7	2707.6	2719.9
60°	9521.5	3970.5	2099.0	2060.2	2069.0	2291.3	2478.3	2520.6	2540.0	2640.5	2656.4
62.5°	9325.7	3868.2	2007.3	1913.8	1913.8	2143.1	2353.0	2420.1	2450.0	2585.9	2612.3
65°	8757.7	3580.7	1899.7	1748.0	1765.7	1995.0	2203.1	2312.5	2358.3	2527.7	2555.9
67.5°	7881.1	3247.3	1785.1	1599.8	1617.5	1839.7	2047.9	2166.1	2238.4	2464.2	2487.1
70°	6739.8	2839.9	1629.8	1442.9	1464.0	1670.4	1864.4	1998.5	2106.1	2404.2	2411.2
72.5°	4968.9	2328.3	1412.9	1270.0	1292.9	1472.8	1679.2	1834.4	1979.1	2254.3	2250.7
75°	2954.5	1820.3	1173.0	1095.4	1111.3	1278.8	1511.7	1700.4	1917.3	2196.0	2229.6
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	979.0	763.8	739.1	758.5	947.2	1287.6	1511.7	1652.8	1769.2	1769.2
82.5°	566.2	598.0	560.9	541.5	568.0	769.1	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	915.5
87.5°	77.6	132.3	165.8	142.9	149.9	335.1	700.3	545.0	647.3	451.6	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)