

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: P320941

Luminaire Tested: **GAN-SA7D-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320941
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-SA7D-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51275 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

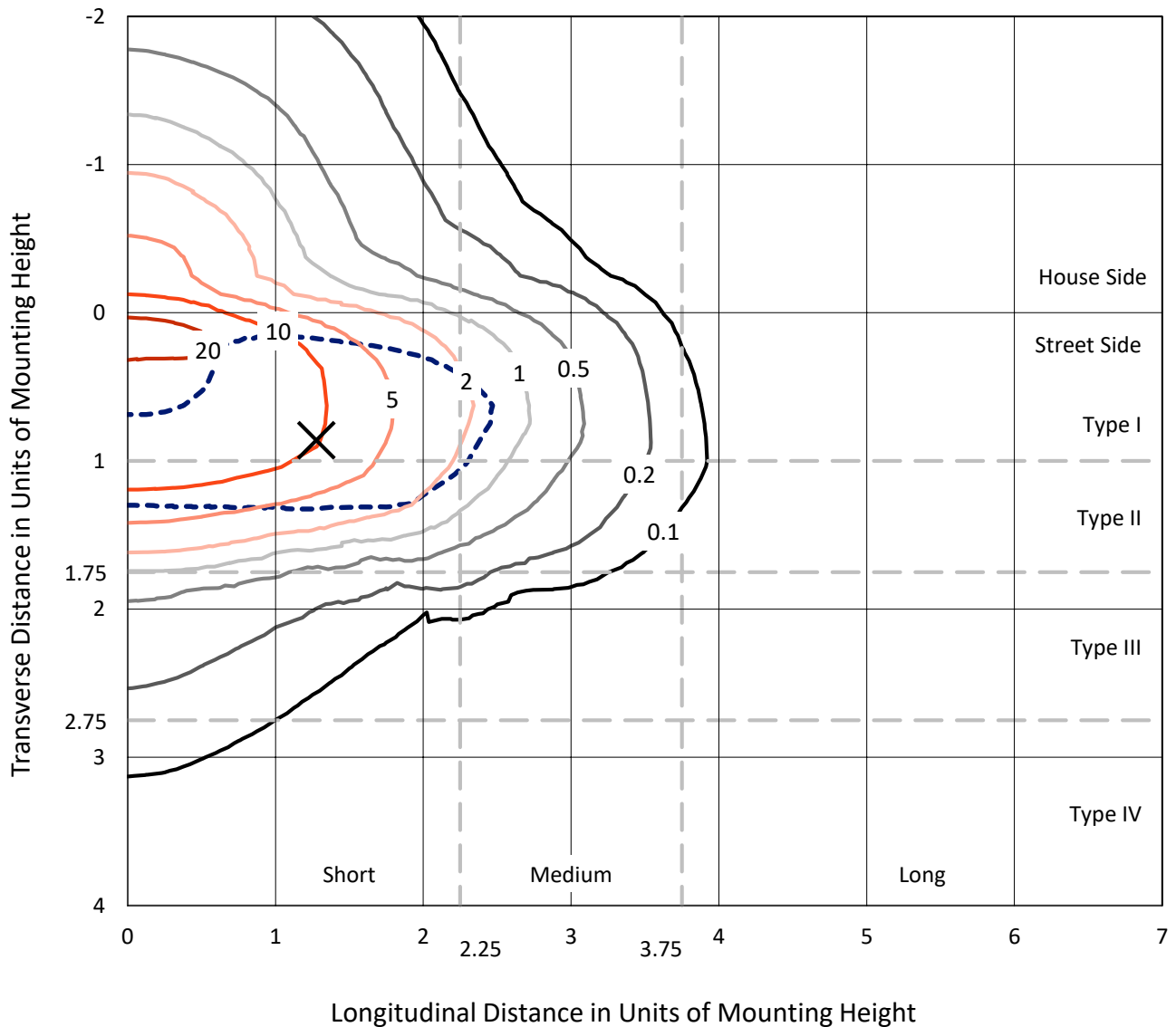
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

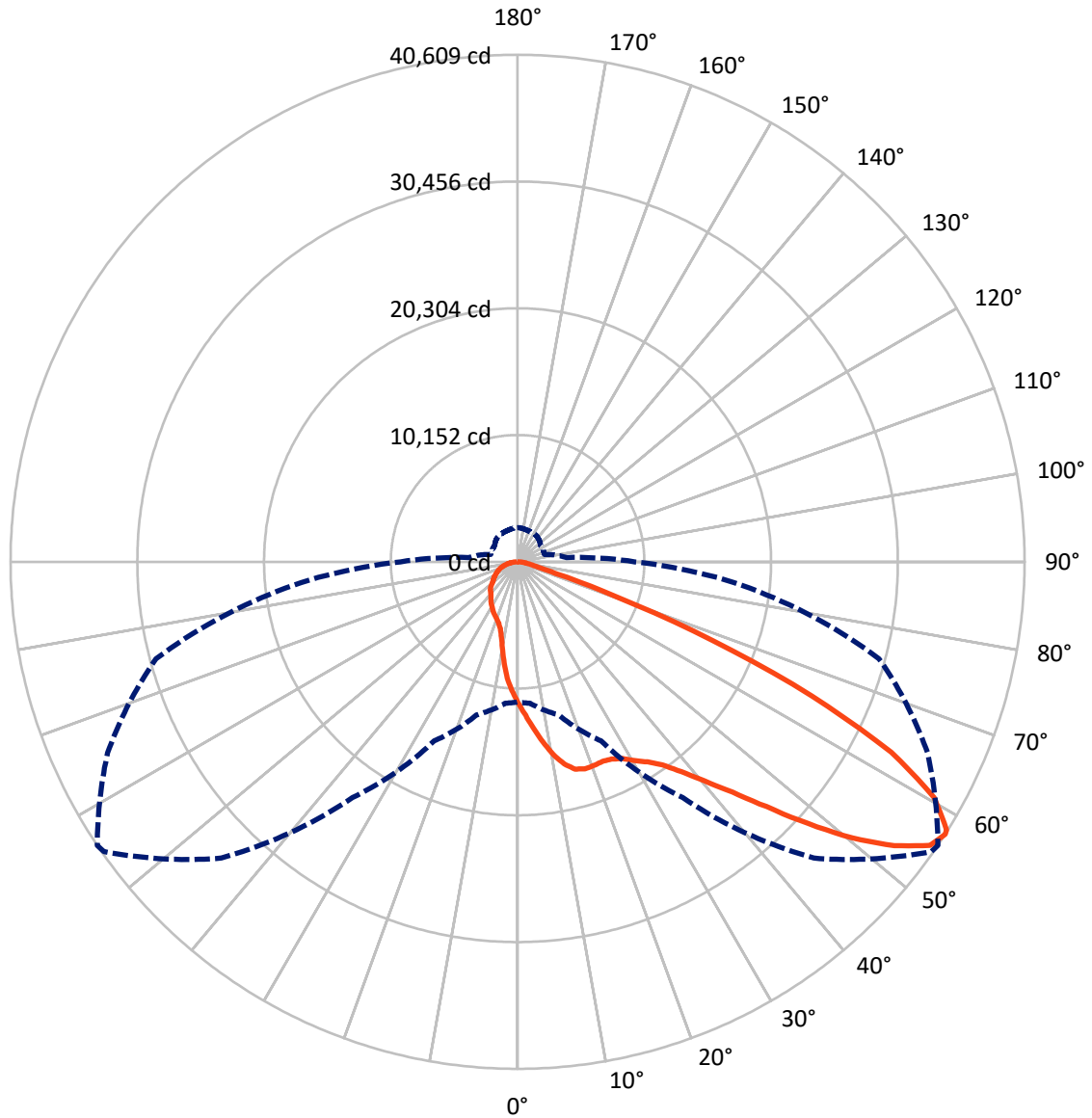
✕ Max cd
 - - - 1/2 Max cd



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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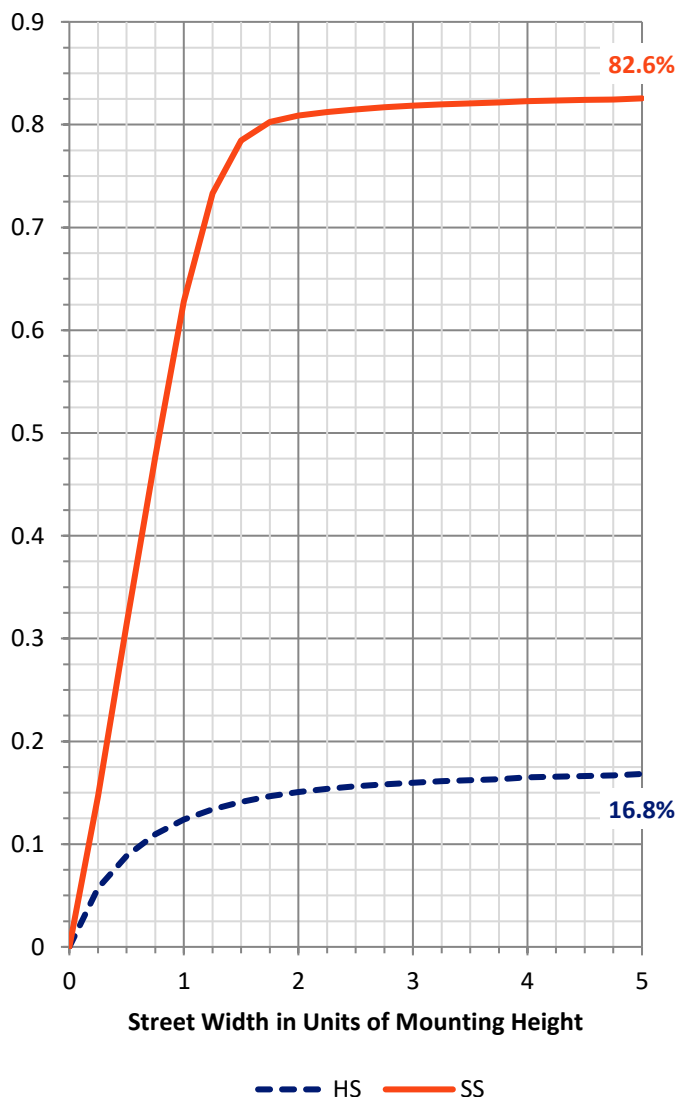
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8838.7	0.0	8838.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	42436.3	0.0	42436.3
	% Fixture	82.8	0.0	82.8
Total	Lumens	51275.0	0.0	51275.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1086.4	2.1
10°-20°	3071.5	6.0
20°-30°	5002.9	9.8
30°-40°	7478.7	14.6
40°-50°	11343.6	22.1
50°-60°	12714.2	24.8
60°-70°	7509.5	14.6
70°-80°	2460.4	4.8
80°-90°	607.9	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°	51275.0	100.0
0°-180°	51275.0	100.0

Coefficient of Utilization

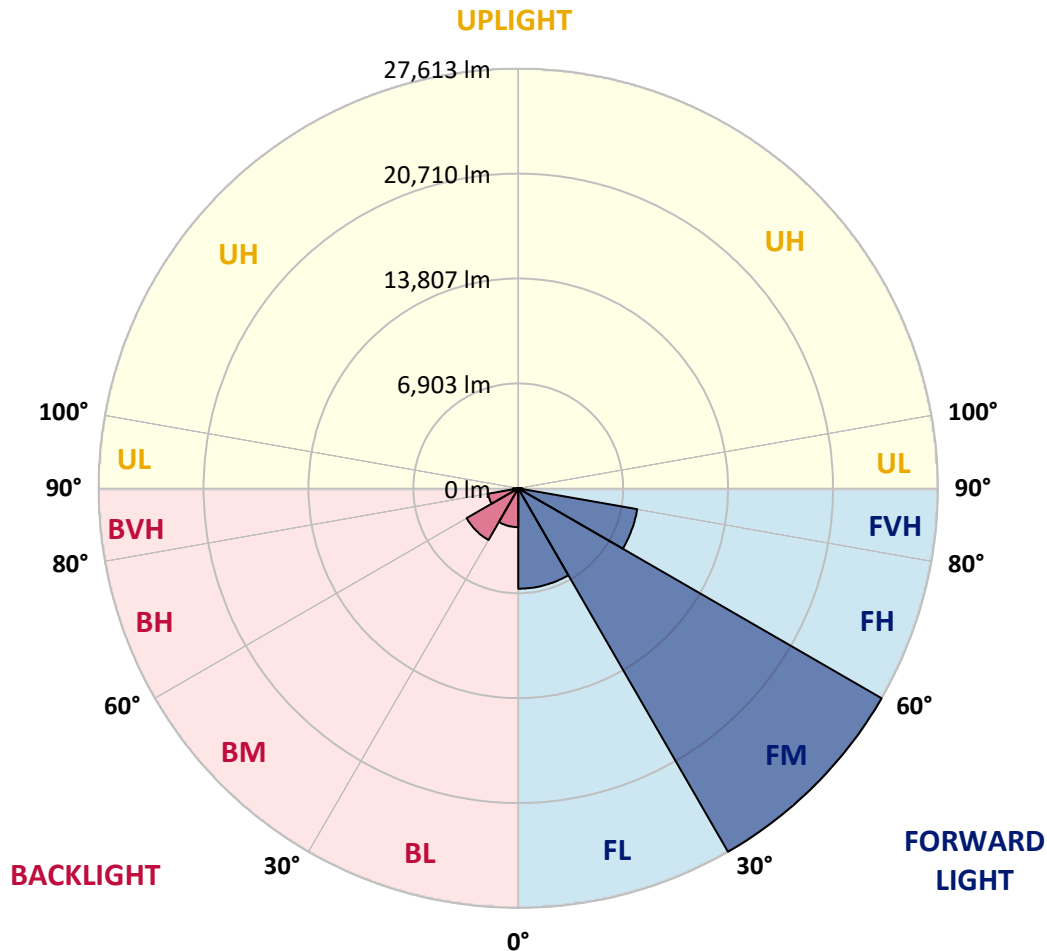


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6605.0	12.9			
FM (30°-60°)	27613.3	53.9			
FH (60°-80°)	7950.4	15.5			G4/12000
FVH (80°-90°)	267.7	0.5			G3/500
BL (0°-30°)	2555.7	5.0	B4/5000		
BM (30°-60°)	3923.2	7.7	B3/5000		
BH (60°-80°)	2019.5	3.9	B3/2500		G3/2500
BVH (80°-90°)	340.2	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°	11372.8	11372.8	11372.8	11372.8	11372.8	11372.8	11372.8	11372.8	11372.8	11372.8	11372.8
2.5°	13059.2	13179.0	13126.2	12942.9	12801.9	12602.8	12380.8	12313.8	12079.5	11816.9	11501.5
5°	15126.2	15066.3	14979.9	14694.5	14393.1	14042.5	13485.6	13397.5	12875.9	12282.1	11654.8
7.5°	16303.3	16298.0	16246.9	16079.5	15804.6	15346.5	14675.1	14571.1	13783.4	12828.4	11855.7
10°	16132.4	16120.0	16204.6	16379.1	16461.9	16366.7	15801.1	15697.1	14729.7	13432.8	12088.3
12.5°	15161.4	15168.5	15304.2	15670.7	16169.4	16768.5	16676.9	16625.8	15711.2	14116.5	12370.2
15°	14405.5	14421.3	14528.8	14847.8	15436.3	16523.6	17209.0	17226.7	16661.0	14870.7	12699.7
17.5°	14074.2	14107.7	14157.0	14380.8	14920.0	16035.5	17335.9	17431.1	17492.7	15653.1	13016.9
20°	14179.9	14211.6	14225.7	14368.5	14810.8	15739.4	17247.8	17418.7	18130.6	16389.6	13334.1
22.5°	14653.9	14673.3	14682.1	14719.1	15062.8	15824.0	17189.7	17369.4	18592.3	17050.5	13573.8
25°	15439.9	15425.8	15369.4	15321.8	15552.6	16158.8	17323.6	17494.5	18967.7	17649.6	13730.6
27.5°	16380.8	16363.2	16254.0	16123.6	16255.7	16680.4	17709.5	17845.2	19304.2	18209.9	13809.9
30°	17510.4	17464.6	17258.4	17103.3	17154.4	17462.8	18345.6	18469.0	19824.1	18846.1	13887.4
32.5°	18816.1	18766.8	18469.0	18211.7	18211.7	18469.0	19001.1	19103.3	20264.6	19565.0	14012.5
35°	20451.4	20389.7	20002.0	19570.3	19448.7	19579.1	19894.5	19966.8	21057.6	20470.8	14239.8
37.5°	22379.2	22296.3	21794.1	21216.1	20950.1	20943.0	21170.3	21318.4	22324.5	21660.2	14625.7
40°	24312.2	24254.1	23815.3	23360.7	22839.1	22671.7	23022.3	23068.2	23980.9	23136.9	15119.1
42.5°	25806.5	25795.9	25714.9	25774.8	25240.9	24902.5	25177.4	25214.4	26003.9	24735.1	15644.3
45°	26596.0	26613.6	27006.5	27877.0	28074.4	27827.7	27963.4	27973.9	28315.8	26347.5	16125.3
47.5°	25963.3	26055.0	27048.8	28996.0	30611.9	31431.3	31205.7	31336.1	30557.2	27732.5	16502.4
50°	23498.1	23610.9	25302.5	28497.3	31796.0	34918.5	34800.5	34770.5	32365.2	28747.5	16706.8
52.5°	20444.3	20532.4	21928.1	25905.2	30927.3	36846.3	37930.0	37775.0	33972.3	29507.0	16745.6
55°	15794.0	15931.5	17269.0	20731.6	27413.6	36109.7	40231.4	40092.2	35436.6	29905.3	16699.8
57°	11228.3	11372.8	12701.5	15822.2	23061.1	33559.9	40460.5	40608.5	36227.8	29972.2	16750.9
57.5°	10019.5	10167.5	11483.9	14514.7	21704.3	32638.3	40263.1	40509.8	36370.5	29961.6	16779.1
60°	5045.0	5101.4	5940.2	8102.3	13720.0	26386.3	37688.6	38324.7	36499.2	29443.6	16900.7
62.5°	3136.6	3096.1	3069.6	3732.2	6675.0	17498.0	32375.8	33600.5	34037.5	28188.9	16606.4
65°	2757.7	2682.0	2391.2	2338.4	2948.1	8498.8	24380.9	25905.2	28777.5	26211.8	15905.1
67.5°	2590.3	2516.3	2188.6	1991.2	1993.0	3369.2	15136.8	16853.1	22417.9	22869.0	14250.4
70°	2417.7	2350.7	2044.1	1811.5	1696.9	1866.1	6964.0	8266.2	14613.4	17975.6	11910.3
72.5°	2195.6	2149.8	1859.1	1619.4	1497.8	1397.4	2666.1	3148.9	8460.0	12072.4	8271.5
75°	1963.0	1920.7	1672.3	1443.2	1295.2	1099.6	1501.3	1617.6	4297.9	6176.3	4072.3
77.5°	1707.5	1682.8	1487.2	1275.8	1157.7	911.0	1062.6	1119.0	1843.2	2648.5	2042.3
80°	1358.6	1406.2	1300.5	1136.6	1027.3	729.5	752.4	789.4	1073.1	1293.4	1159.5
82.5°	884.6	967.4	1018.5	923.4	845.8	574.5	541.0	556.8	699.6	789.4	504.0
85°	368.3	414.1	669.6	604.4	562.1	419.4	363.0	370.0	433.5	449.3	206.2
87.5°	163.9	174.5	294.3	276.7	237.9	144.5	155.1	169.2	230.8	218.5	79.3
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°	11372.8	11372.8	11372.8	11372.8	11372.8	11372.8	11372.8	11372.8	11372.8	11372.8	11372.8
2.5°	11383.4	11235.4	10981.6	10701.5	10472.4	10289.1	10104.1	9977.2	9829.2	9749.9	9709.4
5°	11392.2	11101.5	10567.5	10019.5	9529.6	9082.1	8655.6	8327.9	8021.3	7855.6	7809.8
7.5°	11429.2	10992.2	10128.8	9226.6	8356.1	7561.3	6948.1	6564.0	6287.3	6164.0	6128.7
10°	11459.2	10863.6	9586.0	8250.3	7066.2	6260.9	5785.1	5570.1	5475.0	5459.1	5443.2
12.5°	11529.7	10731.4	9015.1	7231.8	6063.5	5506.7	5341.0	5326.9	5353.4	5392.1	5392.1
15°	11640.7	10601.0	8363.1	6357.8	5425.6	5230.0	5263.5	5341.0	5413.3	5473.2	5482.0
17.5°	11721.7	10440.7	7661.8	5658.2	5085.5	5138.4	5258.2	5367.5	5441.5	5499.6	5504.9
20°	11779.9	10192.2	6912.9	5124.3	4889.9	5053.8	5203.6	5300.5	5351.6	5409.8	5418.6
22.5°	11749.9	9859.2	6248.5	4741.9	4731.3	4930.5	5073.2	5189.5	5150.7	5094.3	5131.3
25°	11605.4	9401.0	5564.8	4456.4	4563.9	4764.8	4941.0	4863.5	4733.1	4708.4	4722.5
27.5°	11348.2	8816.0	4932.2	4192.1	4370.1	4611.5	4600.9	4523.4	4477.6	4445.9	4465.3
30°	11071.5	8181.6	4378.9	3961.3	4155.1	4354.2	4313.7	4312.0	4266.1	4215.0	4239.7
32.5°	10798.4	7543.7	3940.1	3771.0	3993.0	4019.4	4107.5	4134.0	4044.1	3936.6	3929.6
35°	10560.5	6941.1	3607.1	3598.3	3797.4	3800.9	3929.6	3892.6	3668.8	3557.8	3557.8
37.5°	10382.5	6340.2	3353.3	3443.2	3540.1	3631.8	3697.0	3543.7	3506.7	3445.0	3443.2
40°	10305.0	5811.5	3194.8	3325.2	3358.6	3474.9	3307.5	3367.4	3385.1	3353.3	3353.3
42.5°	10223.9	5351.6	3057.3	3235.3	3230.0	3214.1	3129.6	3207.1	3277.6	3279.3	3274.1
45°	10142.9	4955.1	2935.7	3043.2	3117.2	2946.3	2962.2	3045.0	3143.7	3178.9	3178.9
47.5°	10053.0	4641.5	2824.7	2840.6	2955.1	2840.6	2828.2	2891.7	3008.0	3064.4	3076.7
50°	9855.6	4359.5	2697.8	2662.6	2694.3	2733.1	2743.6	2773.6	2902.2	2992.1	3013.3
52.5°	9582.5	4107.5	2535.7	2498.7	2498.7	2645.0	2694.3	2703.1	2812.4	2919.9	2941.0
55°	9355.2	3947.2	2368.3	2361.3	2354.2	2551.6	2636.2	2650.3	2726.0	2810.6	2821.2
57°	9371.1	3934.9	2239.7	2246.7	2245.0	2456.4	2581.5	2611.5	2650.3	2722.5	2734.8
57.5°	9379.9	3943.7	2211.5	2215.0	2213.2	2430.0	2565.7	2599.2	2629.1	2704.9	2717.2
60°	9512.0	3966.6	2096.9	2058.2	2067.0	2289.0	2475.8	2518.1	2537.5	2637.9	2653.8
62.5°	9316.4	3864.4	2005.3	1911.9	1911.9	2141.0	2350.7	2417.7	2447.6	2583.3	2609.7
65°	8749.0	3577.1	1897.8	1746.3	1763.9	1993.0	2200.9	2310.2	2356.0	2525.1	2553.3
67.5°	7873.2	3244.1	1783.3	1598.3	1615.9	1837.9	2045.8	2163.9	2236.2	2461.7	2484.6
70°	6733.1	2837.0	1628.2	1441.4	1462.6	1668.7	1862.6	1996.5	2104.0	2401.8	2408.8
72.5°	4963.9	2326.0	1411.5	1268.7	1291.6	1471.4	1677.6	1832.6	1977.1	2252.0	2248.5
75°	2951.6	1818.5	1171.8	1094.3	1110.1	1277.6	1510.2	1698.7	1915.4	2193.9	2227.3
77.5°	1790.3	1369.2	955.1	916.3	935.7	1106.6	1390.3	1591.2	1889.0	2068.8	2058.2
80°	1082.0	978.0	763.0	738.3	757.7	946.3	1286.4	1510.2	1651.1	1767.4	1767.4
82.5°	565.6	597.4	560.4	541.0	567.4	768.3	1170.1	1318.1	1459.1	1252.9	1170.1
85°	230.8	311.9	340.1	338.3	354.2	532.2	1009.7	1127.8	941.0	893.4	914.5
87.5°	77.5	132.2	165.6	142.7	149.8	334.8	699.6	544.5	646.7	451.1	428.2
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)