

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: P318679

Luminaire Tested: **GAN-SA5B-730-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26167 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

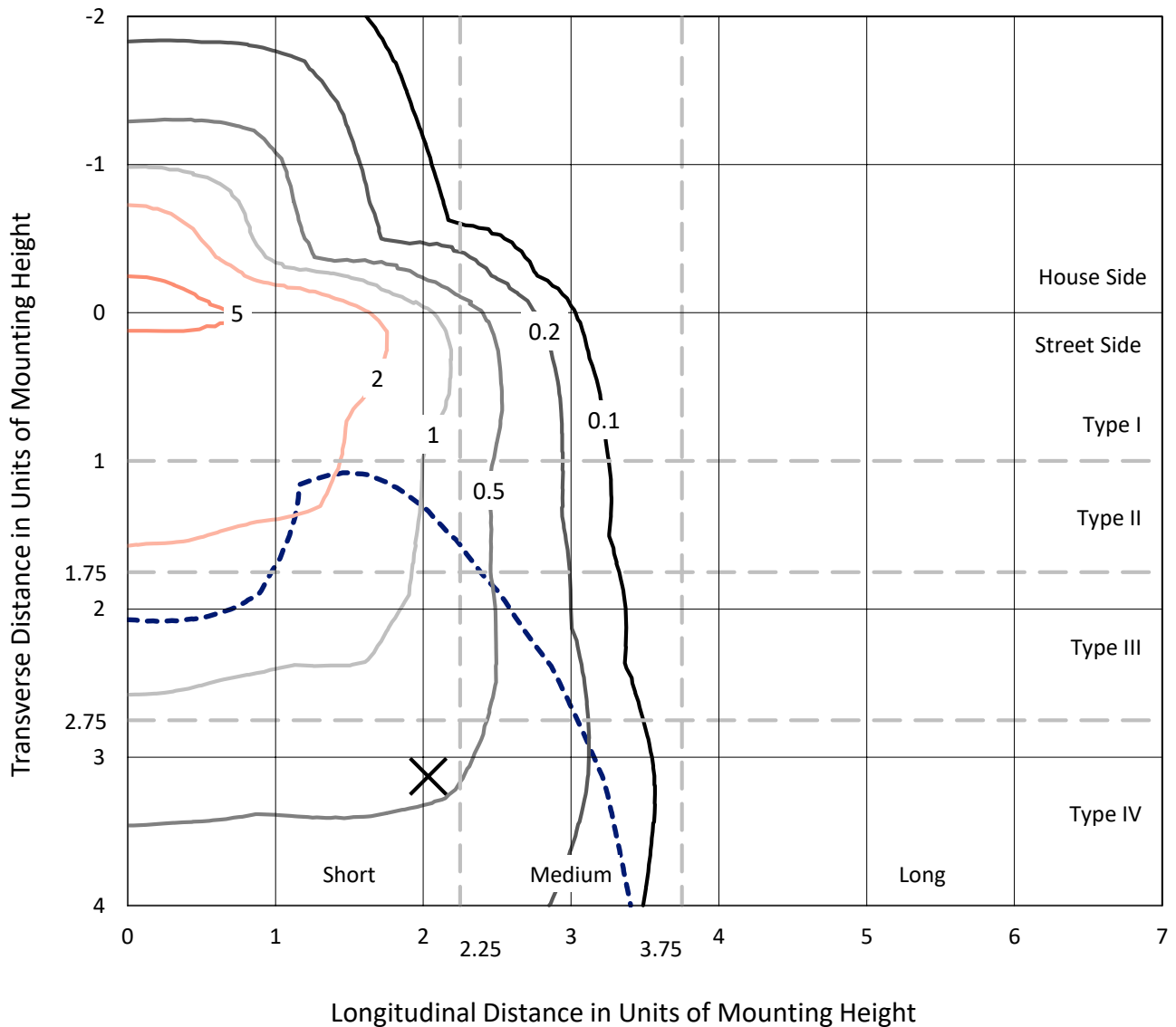
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

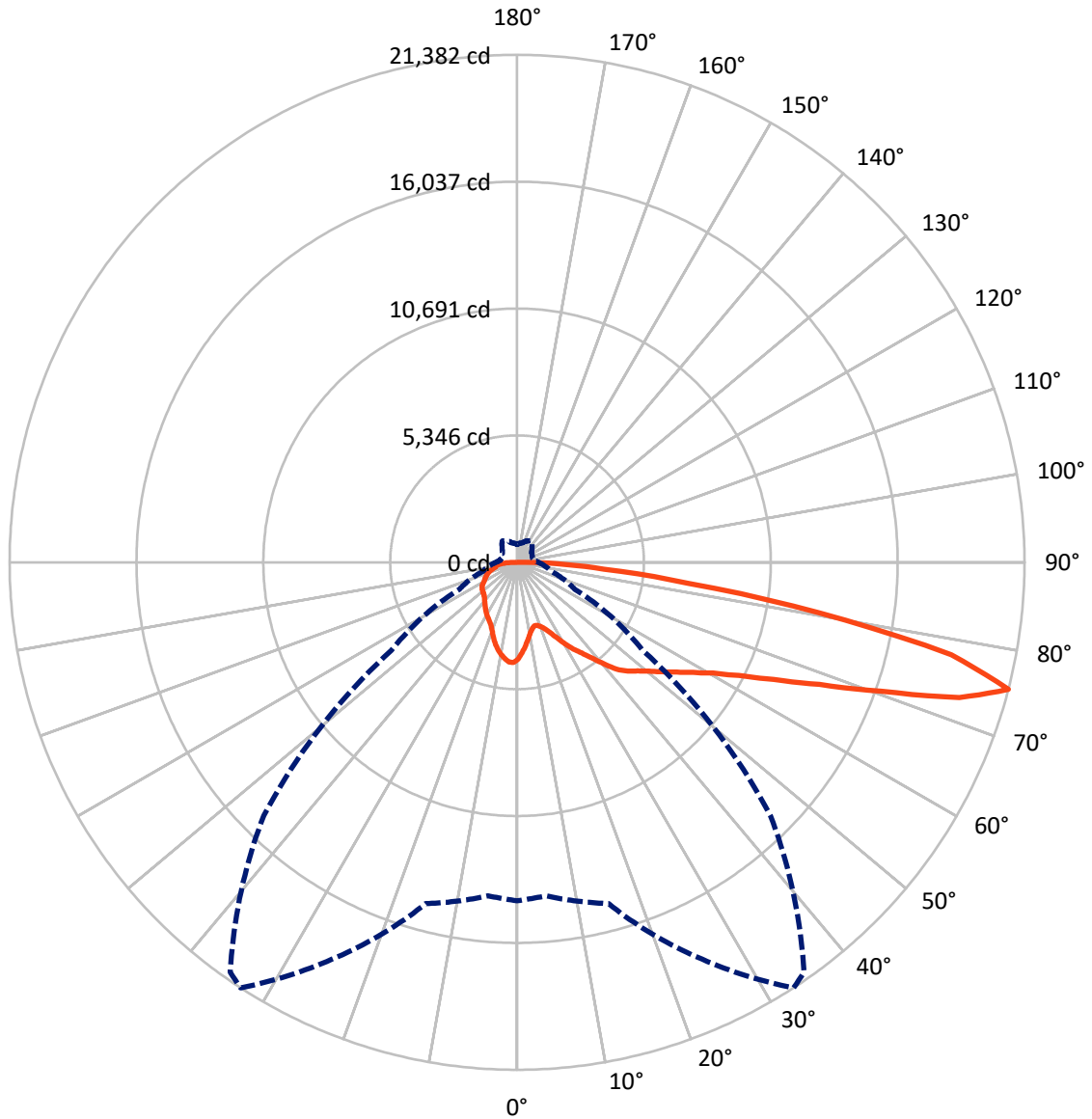
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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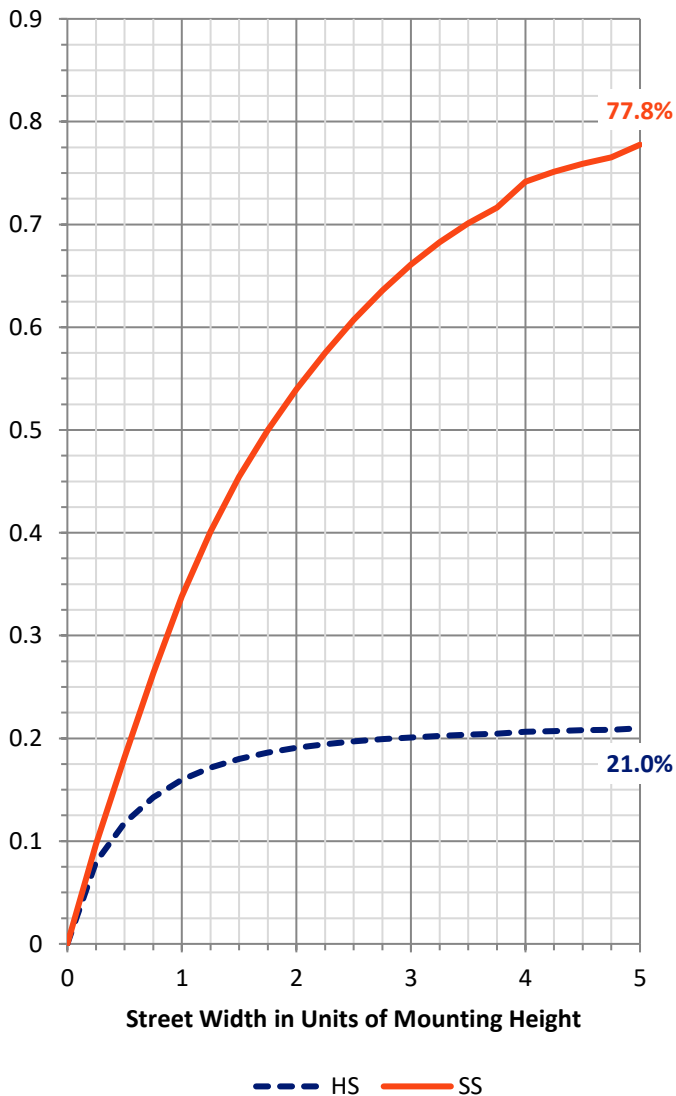
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5618.7	0.0	5618.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	20548.3	0.0	20548.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	26167.0	0.0	26167.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.9	1.4
10°-20°	1001.8	3.8
20°-30°	1636.1	6.3
30°-40°	2436.6	9.3
40°-50°	3494.7	13.4
50°-60°	4797.7	18.3
60°-70°	6006.5	23.0
70°-80°	5433.8	20.8
80°-90°	989.8	3.8
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°	26167.0	100.0
0°-180°	26167.0	100.0

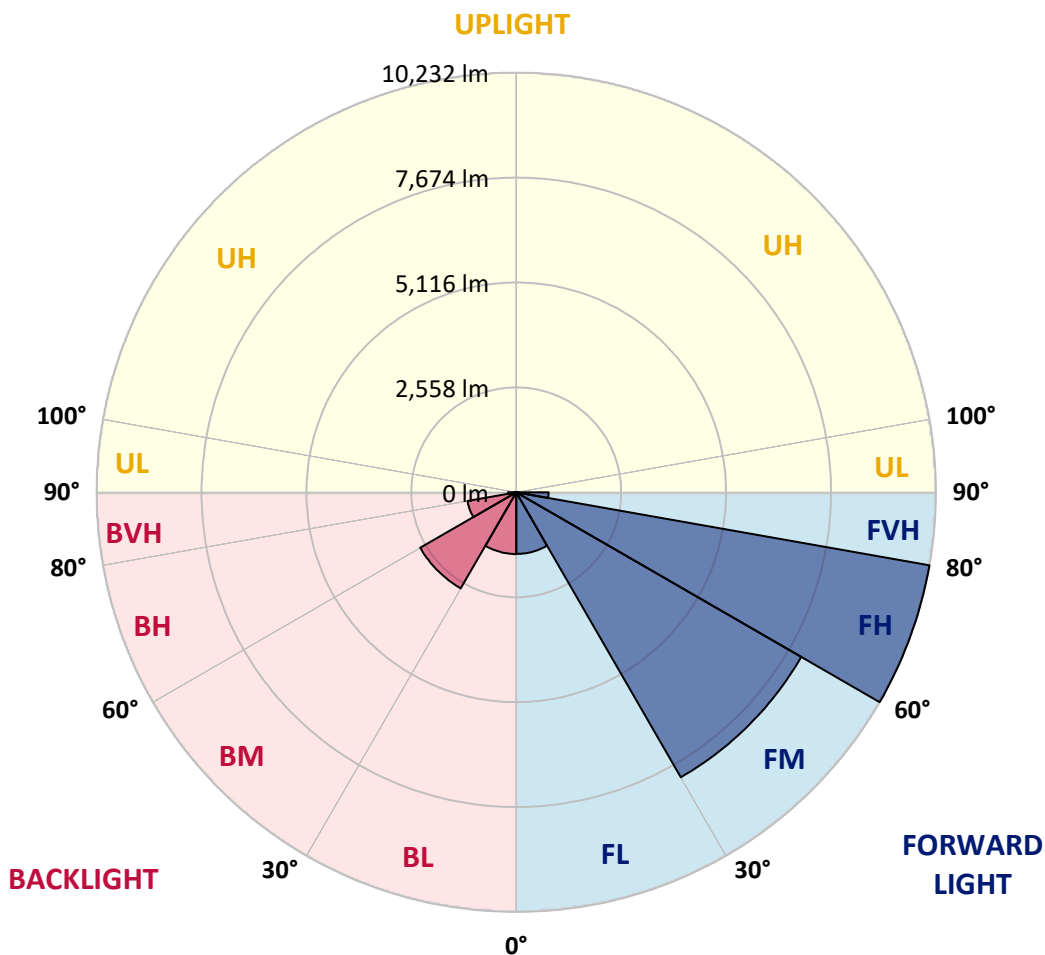


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1502.9	5.7			
FM (30°-60°)	8024.9	30.7			
FH (60°-80°)	10232.2	39.1			G4/12000
FVH (80°-90°)	788.3	3.0			G5
BL (0°-30°)	1505.0	5.8	B3/2500		
BM (30°-60°)	2704.1	10.3	B3/5000		
BH (60°-80°)	1208.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	201.5	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	4090.0	4090.0	4090.0	4090.0	4090.0	4090.0	4090.0	4090.0	4090.0	4090.0	4090.0
2.5°	3798.1	3783.6	3810.8	3814.4	3837.9	3846.9	3879.4	3930.1	3971.6	4019.5	4062.9
5°	3453.7	3443.8	3481.7	3508.9	3560.4	3582.1	3658.9	3766.5	3862.3	3970.7	4069.3
7.5°	3126.5	3121.1	3163.6	3225.0	3284.7	3314.5	3447.4	3603.8	3763.7	3939.1	4090.0
10°	2850.8	2849.0	2889.7	2950.3	3037.9	3071.4	3243.1	3449.2	3673.4	3914.7	4125.3
12.5°	2696.3	2702.6	2721.6	2772.2	2853.5	2887.0	3077.7	3319.9	3597.4	3906.6	4176.8
15°	2734.2	2744.2	2711.6	2709.8	2767.7	2793.9	2972.9	3227.7	3543.2	3920.1	4251.8
17.5°	2896.0	2897.8	2812.0	2757.7	2793.0	2806.5	2940.3	3175.3	3511.6	3950.9	4345.8
20°	3123.8	3119.3	2967.4	2877.0	2896.0	2899.6	2986.4	3176.2	3508.9	4004.2	4467.9
22.5°	3425.7	3392.3	3188.0	3065.1	3060.5	3055.1	3104.8	3243.1	3548.6	4091.0	4613.4
25°	3819.8	3788.2	3507.0	3338.9	3302.8	3289.2	3296.4	3385.9	3627.3	4184.1	4776.1
27.5°	4258.2	4203.0	3931.9	3694.2	3619.1	3600.1	3556.8	3587.5	3713.1	4273.5	4969.5
30°	4625.1	4595.3	4358.5	4076.5	3987.9	3960.8	3846.9	3813.5	3837.0	4395.6	5213.6
32.5°	4830.3	4810.4	4666.7	4438.9	4356.7	4318.7	4157.8	4091.0	4035.8	4588.1	5544.4
35°	5078.9	5066.2	4979.5	4814.1	4692.0	4652.3	4527.5	4457.9	4316.0	4852.9	5971.9
37.5°	5395.2	5381.7	5383.5	5249.7	5104.2	5067.1	4984.9	4911.7	4679.4	5200.9	6436.5
40°	5753.2	5727.0	5717.0	5710.7	5618.5	5597.7	5554.3	5454.9	5134.9	5616.7	6894.8
42.5°	6291.9	6198.8	5999.9	6075.0	6166.3	6155.4	6190.7	6047.8	5641.1	6108.4	7342.2
45°	6811.6	6658.9	6315.4	6331.7	6531.4	6592.0	6855.9	6754.7	6189.8	6647.1	7805.0
47.5°	7048.4	6932.7	6640.8	6641.7	6839.6	6965.3	7543.8	7471.5	6766.4	7259.0	8369.9
50°	7313.3	7197.6	6935.5	7034.0	7206.6	7340.4	8208.1	8171.1	7315.1	7928.8	9046.9
52.5°	7602.5	7406.4	7240.1	7416.3	7658.6	7814.0	8873.4	8772.1	7818.5	8603.1	9825.2
55°	7606.1	7552.8	7679.3	7808.6	8171.1	8361.8	9570.3	9302.7	8228.9	9265.7	10458.8
57.5°	8039.1	7952.3	8220.8	8280.4	8754.1	8969.2	10263.5	9764.6	8646.5	9773.6	10800.4
60°	8612.2	8538.0	8757.7	8915.0	9475.4	9762.8	11003.8	10239.1	8974.6	10156.9	10784.2
62.5°	9601.9	9517.8	9515.1	9735.7	10490.4	10824.8	11834.5	10704.6	9104.8	10232.8	10324.1
65°	11050.8	10917.0	10664.9	10769.7	11892.3	12225.9	12762.8	11041.8	8933.0	9826.1	9139.1
67.5°	12460.9	12456.3	12146.3	12361.4	13743.5	14011.0	13820.3	11075.2	8397.0	8409.7	7036.7
70°	13866.4	13884.5	13832.0	14580.5	16244.5	16522.9	14946.5	10626.0	7192.2	6073.2	4215.7
72.5°	14980.0	14975.5	15239.4	17169.2	19490.3	19428.0	15895.6	9264.8	5163.9	3278.4	2014.7
75°	14258.7	14101.4	14887.8	18450.9	21382.1	21077.5	15088.4	6462.7	2680.0	1492.3	1084.7
77.5°	9300.0	9449.1	10603.4	15242.1	18703.0	18332.5	11069.8	3015.3	1262.7	978.9	786.4
80°	3367.9	3525.1	4965.0	8633.8	12885.7	12825.1	5451.3	1239.2	854.2	739.4	573.1
82.5°	1158.8	1216.6	1958.7	3834.3	7275.3	7546.5	2050.9	704.1	621.0	524.2	392.3
85°	454.7	520.6	895.7	1844.8	3669.7	3696.9	830.7	421.2	432.1	343.5	215.1
87.5°	172.6	209.7	428.4	856.9	1675.8	1539.3	297.4	200.7	245.9	204.3	102.1
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°	4090.0	4090.0	4090.0	4090.0	4090.0	4090.0	4090.0	4090.0	4090.0	4090.0	4090.0
2.5°	4096.4	4115.4	4155.1	4182.2	4211.2	4219.3	4222.9	4230.1	4237.4	4234.7	4235.6
5°	4121.7	4158.7	4222.9	4250.0	4262.7	4248.2	4220.2	4197.6	4181.3	4172.3	4169.6
7.5°	4163.3	4215.7	4284.4	4279.9	4250.9	4186.8	4114.5	4060.2	4015.0	3998.8	3989.7
10°	4218.4	4279.9	4327.8	4276.2	4192.2	4081.0	3972.5	3888.5	3820.7	3794.5	3790.0
12.5°	4288.9	4351.3	4360.3	4250.9	4111.7	3959.9	3812.6	3701.4	3600.1	3567.6	3560.4
15°	4380.2	4438.9	4382.9	4206.6	4012.3	3808.0	3617.3	3466.4	3359.7	3319.9	3305.5
17.5°	4476.0	4532.0	4387.4	4133.4	3882.2	3628.2	3388.6	3234.1	3112.1	3066.0	3060.5
20°	4590.8	4616.1	4368.4	4028.6	3703.2	3395.0	3142.8	2997.3	2932.2	2899.6	2896.0
22.5°	4732.7	4705.6	4325.1	3886.7	3476.3	3125.6	2920.4	2852.6	2836.4	2829.1	2831.9
25°	4882.7	4799.6	4260.9	3701.4	3189.8	2856.3	2757.7	2776.7	2798.4	2795.7	2795.7
27.5°	5048.2	4895.4	4162.4	3455.5	2872.5	2635.7	2647.5	2717.1	2749.6	2748.7	2747.8
30°	5260.6	5003.9	4036.7	3160.0	2576.1	2480.2	2551.6	2636.6	2680.9	2679.1	2680.0
32.5°	5521.8	5123.2	3865.9	2830.0	2361.8	2365.4	2447.7	2531.8	2583.3	2578.8	2579.7
35°	5827.3	5257.0	3634.5	2504.6	2219.9	2274.2	2339.2	2398.0	2446.8	2440.5	2434.1
37.5°	6159.9	5388.0	3327.2	2213.6	2104.2	2189.2	2243.4	2253.4	2276.0	2259.7	2247.9
40°	6476.3	5488.3	2931.3	1975.0	1987.6	2116.9	2152.1	2112.4	2071.7	2066.3	2050.0
42.5°	6752.0	5521.8	2530.9	1784.3	1864.7	2041.0	2062.7	1979.5	1906.3	1871.9	1857.5
45°	7043.0	5533.5	2157.6	1624.3	1746.3	1973.2	1996.7	1885.5	1782.4	1708.3	1683.9
47.5°	7423.6	5618.5	1867.4	1505.9	1655.9	1928.0	1961.4	1810.5	1676.7	1570.9	1548.3
50°	7921.6	5786.6	1631.5	1415.5	1597.2	1898.1	1936.1	1737.3	1589.9	1462.5	1439.9
52.5°	8474.8	5941.2	1440.8	1342.3	1540.2	1845.7	1903.6	1684.8	1508.6	1362.1	1337.7
55°	8861.6	5822.8	1287.1	1266.3	1466.1	1770.7	1858.4	1640.5	1392.0	1264.5	1242.8
57.5°	8935.7	5417.8	1170.5	1187.7	1376.6	1676.7	1788.8	1542.0	1328.7	1222.0	1199.4
60°	8733.3	4853.8	1083.7	1115.4	1280.8	1558.3	1658.6	1472.4	1268.1	1176.8	1157.9
62.5°	8224.4	4276.2	1019.6	1050.3	1191.3	1438.1	1577.3	1399.2	1206.7	1125.3	1106.3
65°	7196.7	3590.2	958.1	992.5	1108.2	1334.1	1504.1	1331.4	1146.1	1083.7	1065.7
67.5°	5432.3	2689.0	900.3	931.0	1034.0	1243.7	1424.5	1264.5	1087.4	1047.6	1025.9
70°	3198.8	1683.9	834.3	866.8	956.3	1149.7	1339.5	1191.3	1014.2	996.1	968.1
72.5°	1488.7	1013.2	759.3	790.9	858.7	1024.1	1230.2	1095.5	927.4	887.6	849.6
75°	888.5	741.2	670.7	698.7	746.6	890.3	1092.8	997.9	845.1	792.7	752.9
77.5°	664.4	566.7	573.1	602.9	641.8	779.1	968.1	921.1	781.9	741.2	714.1
80°	478.2	430.2	467.3	499.8	540.5	708.6	927.4	851.5	706.8	652.6	627.3
82.5°	319.1	309.1	351.6	385.1	424.8	620.1	871.3	745.7	603.8	535.1	479.1
85°	176.3	186.2	236.8	251.3	285.6	436.6	714.1	599.3	454.7	366.1	349.8
87.5°	73.2	85.9	127.4	122.9	151.9	260.3	470.0	361.6	289.2	216.0	168.1
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)