

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: P317709

Luminaire Tested: **GAN-SA5A-730-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21687 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

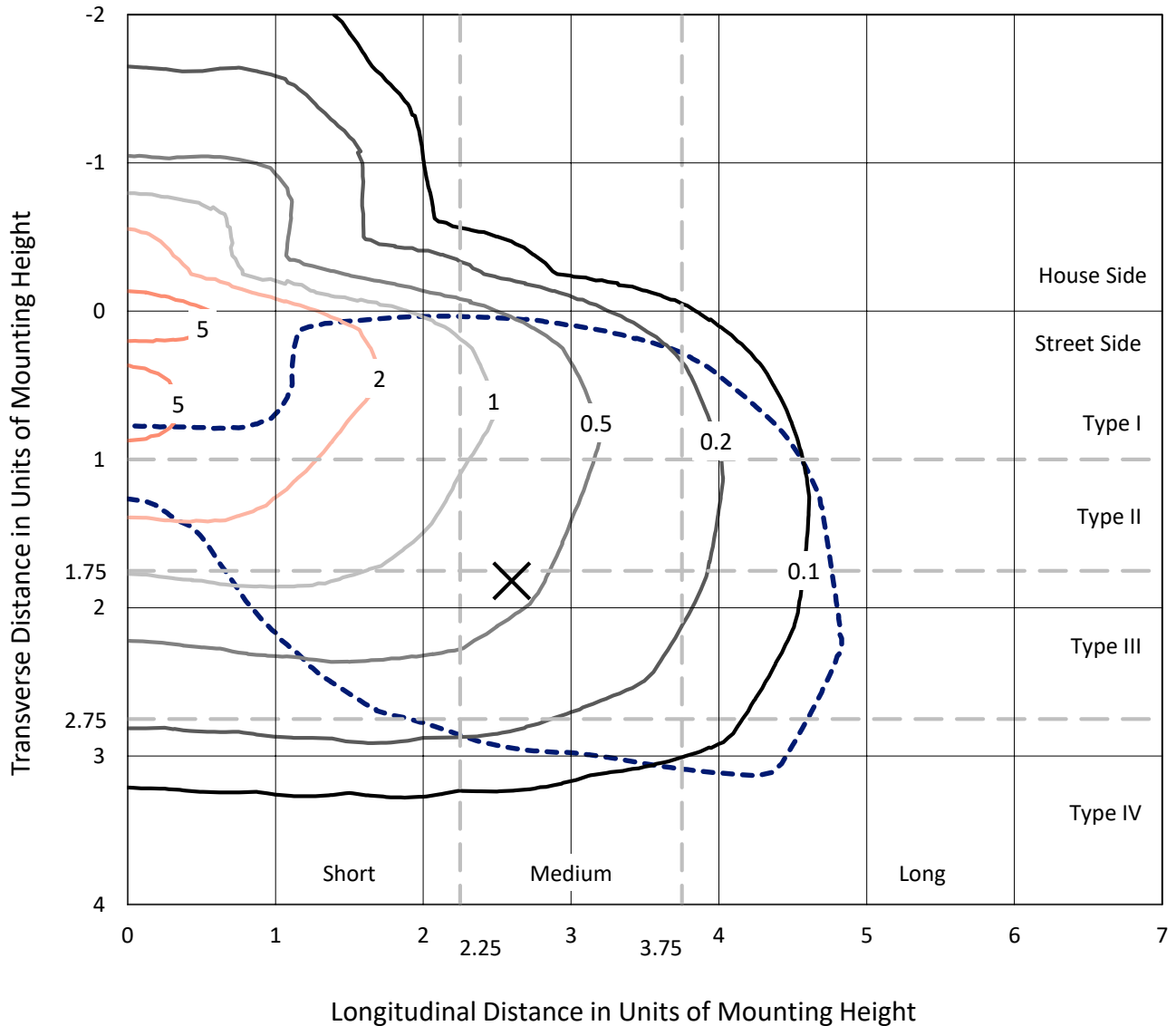
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

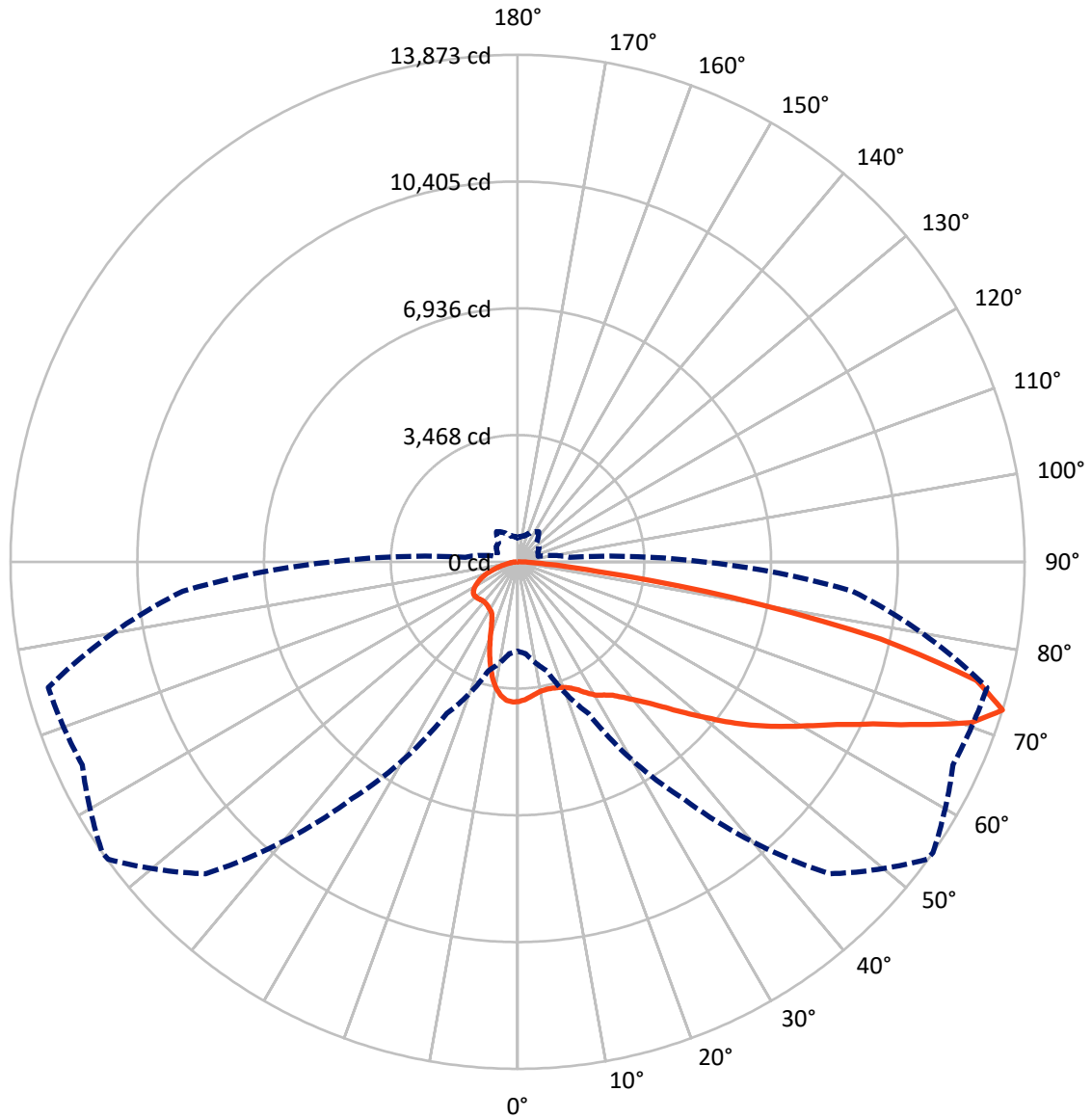
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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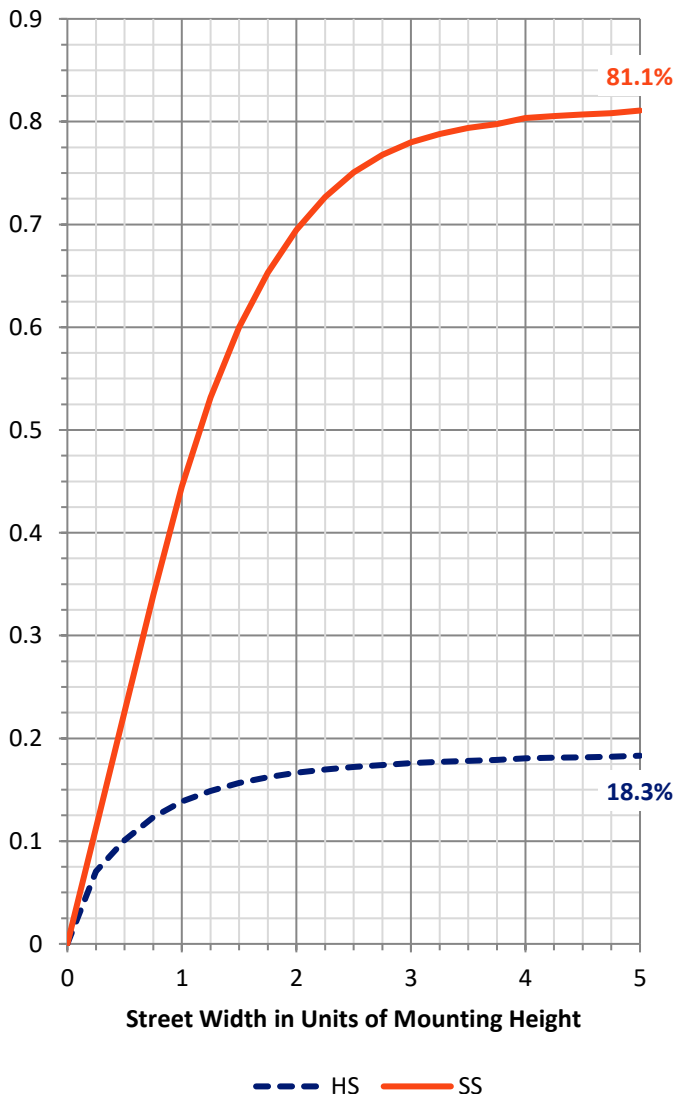
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4030.9	0.0	4030.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	17656.1	0.0	17656.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	21687.0	0.0	21687.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.1	1.6
10°-20°	921.5	4.2
20°-30°	1519.4	7.0
30°-40°	2247.5	10.4
40°-50°	3137.1	14.5
50°-60°	4084.5	18.8
60°-70°	5019.8	23.1
70°-80°	3934.9	18.1
80°-90°	476.2	2.2
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°	21687.0	100.0
0°-180°	21687.0	100.0

Coefficient of Utilization

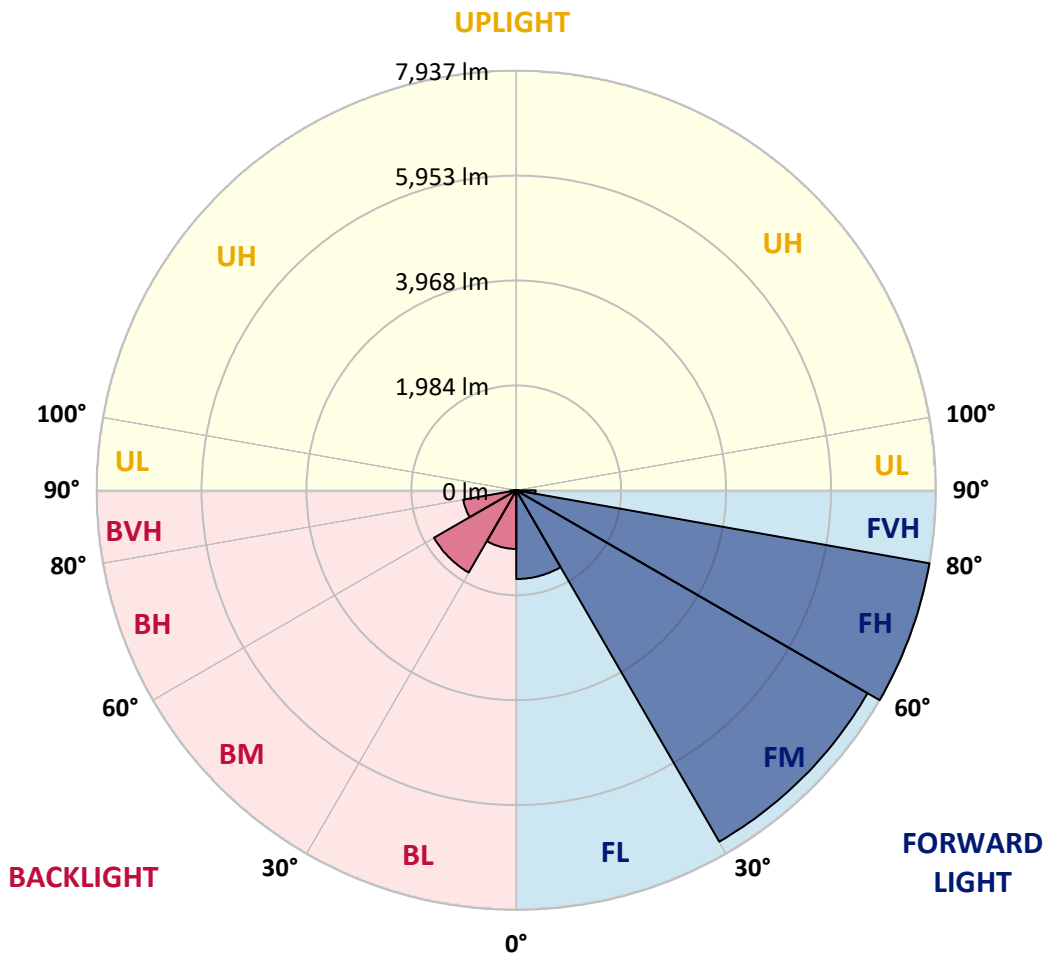


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1677.9	7.7			
FM (30°-60°)	7673.3	35.4			
FH (60°-80°)	7936.7	36.6			G4/12000
FVH (80°-90°)	368.2	1.7			G3/500
BL (0°-30°)	1109.1	5.1	B3/2500		
BM (30°-60°)	1795.8	8.3	B2/2500		
BH (60°-80°)	1018.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	108.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3825.1	3825.1	3825.1	3825.1	3825.1	3825.1	3825.1	3825.1	3825.1	3825.1	3825.1
2.5°	3700.6	3691.8	3702.8	3718.2	3735.0	3757.7	3770.9	3776.8	3799.5	3808.3	3827.3
5°	3529.2	3524.8	3543.1	3569.5	3606.8	3659.6	3702.1	3710.1	3770.2	3812.7	3851.5
7.5°	3404.7	3404.7	3425.9	3457.4	3499.2	3570.2	3630.3	3641.3	3743.1	3834.6	3906.4
10°	3305.8	3309.4	3334.3	3371.7	3420.8	3496.2	3576.1	3588.5	3735.8	3885.9	4000.2
12.5°	3239.9	3248.6	3271.3	3305.0	3365.8	3457.4	3558.5	3575.3	3751.1	3959.2	4113.0
15°	3281.6	3296.3	3298.5	3312.4	3346.1	3445.7	3568.7	3586.3	3784.1	4033.9	4241.2
17.5°	3464.7	3469.9	3447.1	3417.8	3401.7	3465.5	3599.5	3617.8	3823.7	4107.9	4364.2
20°	3743.1	3740.2	3691.1	3612.0	3529.9	3540.2	3650.1	3669.1	3877.1	4173.1	4487.3
22.5°	4094.7	4084.4	4009.0	3863.2	3723.3	3664.7	3738.7	3754.8	3957.7	4266.1	4619.2
25°	4521.0	4498.3	4398.7	4203.1	3997.3	3846.4	3872.0	3887.4	4074.9	4370.1	4740.0
27.5°	4970.8	4948.0	4821.3	4584.7	4310.8	4075.6	4055.9	4069.0	4208.2	4447.0	4829.4
30°	5441.0	5416.8	5301.1	5035.9	4643.3	4313.0	4227.3	4232.4	4302.0	4488.8	4902.6
32.5°	5913.5	5890.8	5761.1	5453.5	5004.4	4567.9	4351.1	4344.5	4358.4	4532.0	4985.4
35°	6392.5	6401.3	6249.7	5909.1	5404.4	4851.4	4497.6	4483.6	4452.9	4620.6	5102.6
37.5°	6905.3	6899.4	6703.1	6347.1	5822.7	5159.0	4707.8	4705.6	4599.4	4788.4	5286.5
40°	7248.1	7251.8	7132.4	6795.4	6245.3	5499.6	4977.3	4972.2	4833.0	5039.6	5527.5
42.5°	7382.1	7406.3	7437.1	7223.2	6687.7	5894.4	5298.9	5291.6	5159.0	5400.0	5810.9
45°	7391.7	7440.0	7630.5	7603.4	7136.0	6346.4	5709.8	5689.3	5594.1	5879.1	6149.3
47.5°	7309.6	7359.4	7675.9	7829.7	7536.7	6823.2	6190.4	6174.3	6092.2	6478.2	6515.6
50°	7130.2	7177.8	7582.1	7940.3	7866.3	7281.8	6744.1	6701.7	6657.7	7170.5	6934.6
52.5°	6793.9	6885.5	7456.9	7966.7	8063.4	7689.1	7326.5	7298.6	7322.8	7900.8	7354.3
55°	5997.7	6100.3	7133.8	7944.7	8209.1	8031.1	7908.8	7907.3	8032.6	8667.0	7804.8
57.5°	5551.6	5624.1	6476.0	7907.3	8382.0	8371.0	8485.3	8499.2	8743.1	9501.3	8276.5
60°	5299.6	5375.8	6142.8	7768.9	8650.1	8810.5	9073.5	9101.3	9465.4	10425.0	8844.2
62.5°	5070.4	5153.9	5936.2	7486.9	8965.8	9439.0	9778.2	9803.1	10230.1	11374.3	9392.9
65°	4678.5	4773.0	5633.7	7301.6	9253.0	10258.7	10674.0	10690.9	11108.4	12369.0	9812.6
67.5°	4124.7	4211.1	5063.0	6892.1	9465.4	11254.1	11865.1	11874.6	11979.3	13071.5	10027.2
70°	3477.9	3510.9	4250.0	6046.8	9214.1	12185.2	13170.4	13172.6	12773.4	13521.2	9992.0
72.5°	2443.6	2521.3	3085.3	4577.4	7918.3	12071.6	13847.9	13872.8	13142.5	13294.2	9193.6
75°	1498.7	1580.7	1935.3	2774.0	5023.5	9493.9	12794.6	12967.5	12450.3	11853.3	7510.3
77.5°	1002.1	1032.8	1262.8	1617.4	2275.9	5462.3	9836.8	10162.0	10342.9	8644.2	4803.0
80°	558.9	617.5	837.2	1005.0	1012.3	2170.4	5898.1	5974.3	5754.5	3442.0	1481.8
82.5°	295.9	328.2	558.9	590.4	552.3	726.6	2198.2	2200.4	1838.6	923.0	440.2
85°	229.3	256.4	383.1	360.4	282.0	322.3	725.2	764.7	625.6	378.0	143.6
87.5°	114.3	142.1	260.0	228.5	110.6	92.3	259.3	276.9	246.9	148.0	52.0
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°	3825.1	3825.1	3825.1	3825.1	3825.1	3825.1	3825.1	3825.1	3825.1	3825.1	3825.1
2.5°	3834.6	3841.2	3849.3	3840.5	3837.6	3825.9	3806.1	3801.7	3791.4	3792.2	3798.0
5°	3868.3	3879.3	3874.9	3841.2	3800.9	3744.5	3685.9	3636.1	3603.2	3601.0	3598.8
7.5°	3932.8	3940.1	3905.7	3809.7	3696.9	3566.5	3443.5	3335.8	3270.6	3254.5	3250.8
10°	4033.9	4032.4	3937.9	3744.5	3519.7	3286.7	3089.0	2939.5	2852.4	2826.7	2820.1
12.5°	4146.7	4129.8	3948.9	3625.9	3269.2	2946.1	2695.6	2529.3	2438.5	2409.2	2401.9
15°	4263.2	4221.4	3921.8	3448.6	2961.5	2579.1	2316.2	2162.3	2113.3	2097.2	2094.2
17.5°	4371.6	4291.0	3844.2	3208.4	2610.6	2213.6	2008.5	1947.0	1958.7	1980.0	1980.7
20°	4477.8	4337.9	3719.6	2905.1	2240.7	1912.6	1843.0	1888.4	1944.1	1987.3	1993.1
22.5°	4582.5	4370.8	3559.2	2555.0	1909.6	1743.4	1792.4	1875.2	1938.9	1985.8	1993.9
25°	4670.4	4378.9	3338.0	2181.4	1679.6	1679.6	1768.3	1846.6	1909.6	1955.8	1963.8
27.5°	4702.7	4324.7	3026.0	1835.6	1563.9	1650.3	1734.6	1799.8	1853.2	1902.3	1911.1
30°	4715.1	4224.3	2665.6	1558.0	1516.3	1618.8	1689.1	1744.8	1795.4	1841.5	1849.6
32.5°	4717.3	4103.5	2283.2	1400.5	1483.3	1585.9	1632.7	1681.8	1736.0	1754.3	1757.3
35°	4731.2	3960.6	1880.3	1320.0	1452.5	1555.1	1592.5	1627.6	1539.7	1546.3	1552.2
37.5°	4771.5	3819.3	1543.4	1274.6	1432.8	1539.0	1583.7	1456.2	1387.4	1371.2	1369.0
40°	4847.0	3668.4	1293.6	1237.9	1425.4	1547.0	1527.3	1359.5	1240.9	1152.2	1139.0
42.5°	4951.7	3505.7	1133.9	1213.8	1430.6	1585.9	1448.9	1266.5	1069.5	1012.3	1005.0
45°	5069.6	3335.1	1047.5	1196.9	1448.2	1615.9	1432.8	1142.7	989.6	946.4	942.7
47.5°	5183.9	3126.3	1002.8	1189.6	1472.3	1591.7	1364.6	1104.6	951.5	928.8	931.0
50°	5315.0	2938.1	975.7	1181.5	1493.6	1576.3	1287.7	1084.8	936.9	964.7	994.0
52.5°	5425.6	2743.2	951.5	1165.4	1501.6	1549.2	1268.0	1088.5	936.9	990.3	1018.2
55°	5556.8	2596.0	923.7	1131.7	1486.2	1472.3	1254.0	1110.5	947.9	914.2	917.1
57.5°	5726.0	2547.6	892.9	1079.0	1435.0	1360.3	1247.4	1131.7	941.3	920.0	927.3
60°	5960.4	2598.9	880.5	1010.1	1355.1	1272.4	1248.2	1120.7	895.1	858.5	859.2
62.5°	6183.8	2656.0	879.7	966.9	1257.0	1194.0	1231.3	1084.8	871.7	850.4	858.5
65°	6257.0	2598.2	844.6	918.6	1146.4	1100.2	1200.6	1046.7	854.1	821.9	820.4
67.5°	6158.9	2418.7	773.5	840.2	1019.6	991.1	1160.3	1001.3	826.3	799.9	795.5
70°	5867.3	2018.0	685.6	736.9	875.3	868.0	1096.6	948.6	788.9	766.2	747.2
72.5°	5082.8	1437.9	577.9	613.1	712.7	736.2	1008.7	879.7	736.2	687.1	657.8
75°	4174.5	1064.3	474.7	482.0	541.3	605.0	887.8	799.2	673.9	590.4	567.7
77.5°	2556.4	651.2	378.0	380.9	388.2	482.7	731.0	709.1	594.8	492.2	476.1
80°	827.7	355.3	273.2	287.1	265.2	353.8	565.5	603.6	510.6	411.7	394.1
82.5°	315.0	207.3	184.6	194.1	183.9	237.3	412.4	483.5	418.3	338.4	275.4
85°	152.4	117.2	109.1	122.3	113.5	121.6	263.7	356.0	317.2	220.5	205.1
87.5°	54.2	52.0	41.8	56.4	48.3	43.2	80.6	179.5	209.5	151.6	135.5
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)