

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: P317727

Luminaire Tested: **GAN-SA3C-730-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317727
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-SA3C-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20106 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

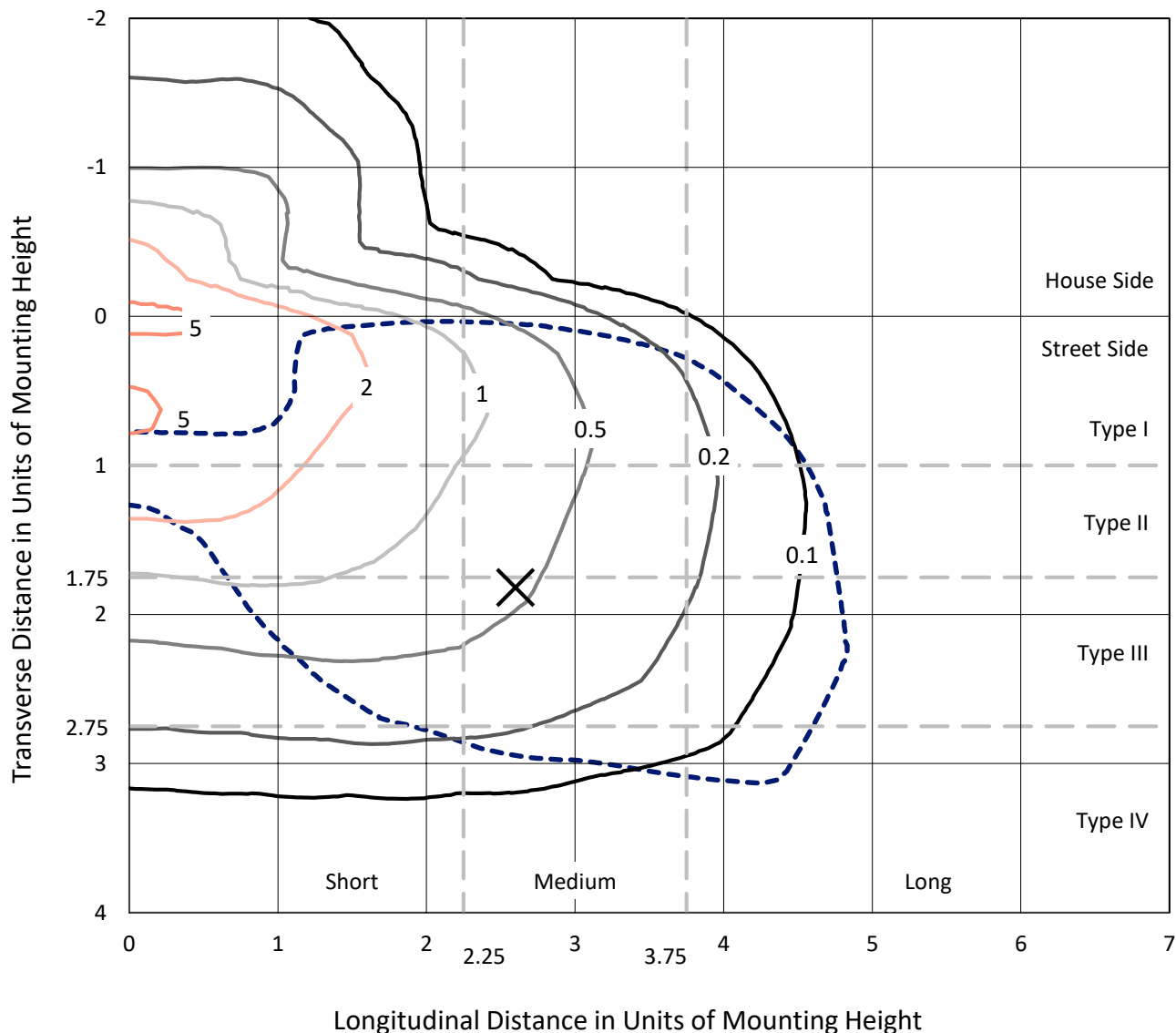
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

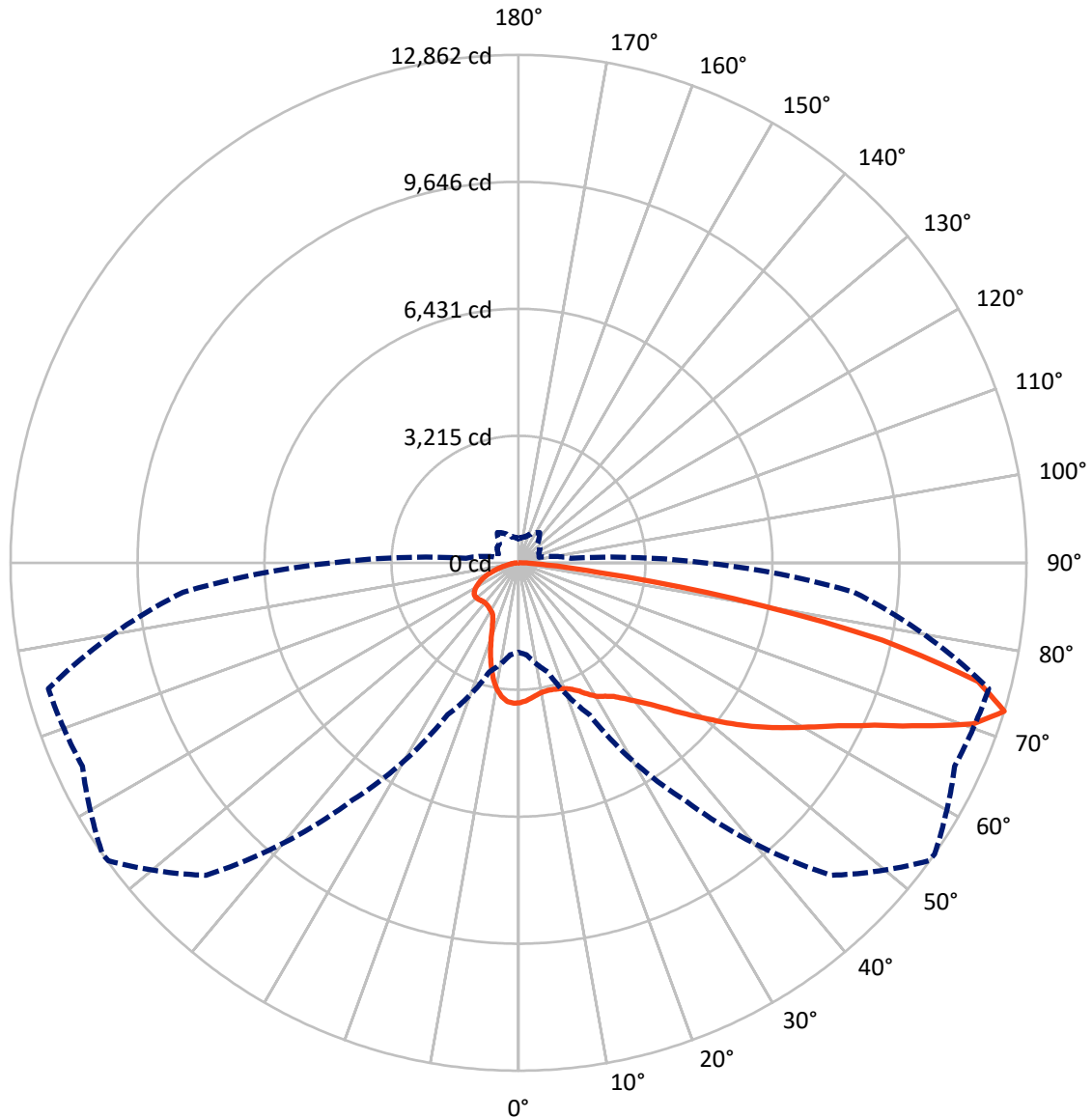
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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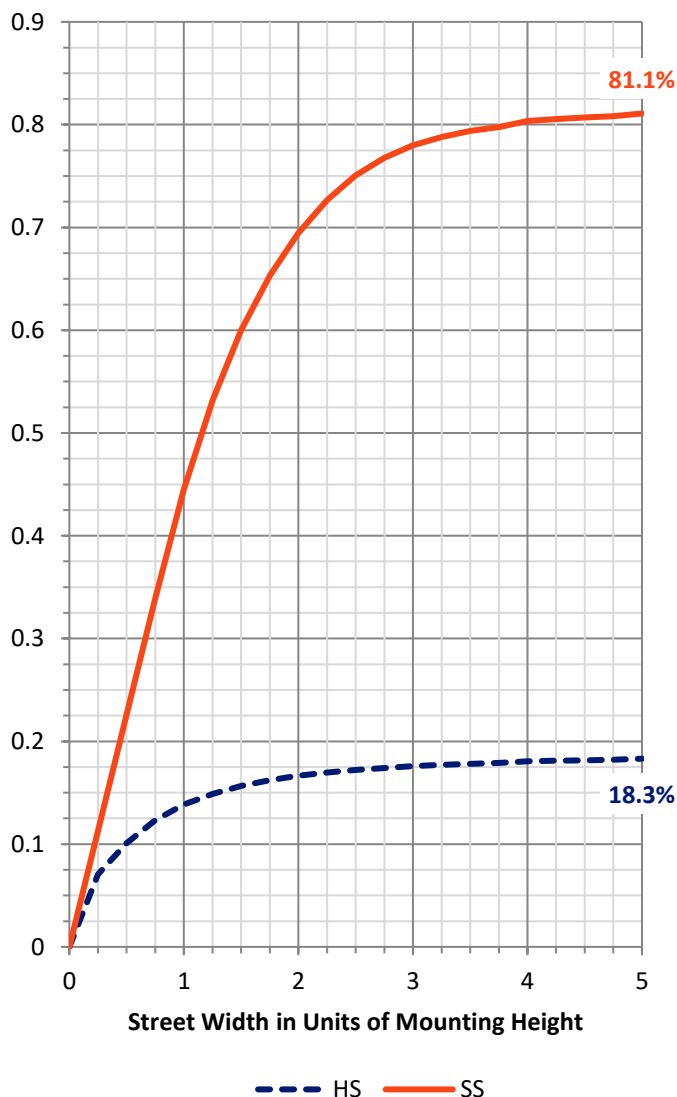
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3737.0	0.0	3737.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	16369.0	0.0	16369.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	20106.0	0.0	20106.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.9	1.6
10°-20°	854.3	4.2
20°-30°	1408.6	7.0
30°-40°	2083.7	10.4
40°-50°	2908.4	14.5
50°-60°	3786.8	18.8
60°-70°	4653.8	23.1
70°-80°	3648.1	18.1
80°-90°	441.5	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°	20106.0	100.0
0°-180°	20106.0	100.0

Coefficient of Utilization



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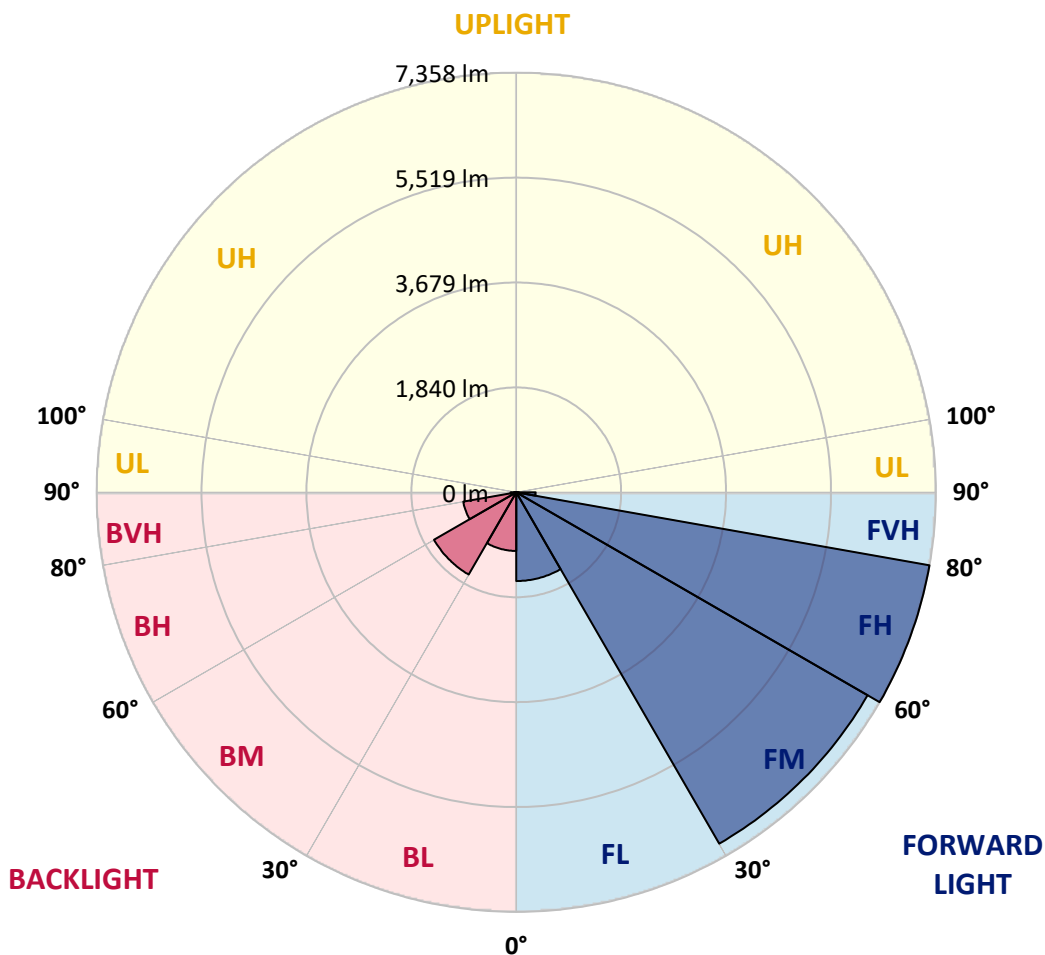
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1555.6	7.7			
FM (30°-60°)	7113.9	35.4			
FH (60°-80°)	7358.1	36.6			G3/7500
FVH (80°-90°)	341.3	1.7			G3/500
BL (0°-30°)	1028.2	5.1	B3/2500		
BM (30°-60°)	1664.9	8.3	B2/2500		
BH (60°-80°)	943.8	4.7	B2/1000		G2/1000
BVH (80°-90°)	100.1	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-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3546.3	3546.3	3546.3	3546.3	3546.3	3546.3	3546.3	3546.3	3546.3	3546.3	3546.3
2.5°	3430.8	3422.7	3432.9	3447.1	3462.7	3483.8	3496.0	3501.4	3522.5	3530.6	3548.3
5°	3271.9	3267.8	3284.8	3309.3	3343.9	3392.8	3432.2	3439.6	3495.3	3534.7	3570.7
7.5°	3156.5	3156.5	3176.2	3205.4	3244.1	3309.9	3365.6	3375.8	3470.2	3555.1	3621.6
10°	3064.8	3068.2	3091.3	3125.9	3171.4	3241.3	3315.4	3326.9	3463.4	3602.6	3708.6
12.5°	3003.7	3011.8	3032.9	3064.1	3120.5	3205.4	3299.1	3314.7	3477.7	3670.5	3813.2
15°	3042.4	3056.0	3058.0	3070.9	3102.1	3194.5	3308.6	3324.9	3508.2	3739.8	3932.0
17.5°	3212.1	3216.9	3195.8	3168.7	3153.7	3212.8	3337.1	3354.1	3544.9	3808.4	4046.1
20°	3470.2	3467.5	3422.0	3348.6	3272.6	3282.1	3384.0	3401.6	3594.5	3868.8	4160.2
22.5°	3796.2	3786.7	3716.7	3581.6	3451.9	3397.5	3466.1	3481.1	3669.2	3955.1	4282.4
25°	4191.4	4170.4	4078.0	3896.7	3705.9	3566.0	3589.7	3604.0	3777.8	4051.5	4394.5
27.5°	4608.4	4587.3	4469.8	4250.5	3996.5	3778.5	3760.2	3772.4	3901.4	4122.8	4477.3
30°	5044.4	5022.0	4914.7	4668.8	4304.8	3998.5	3919.1	3923.8	3988.4	4161.5	4545.2
32.5°	5482.4	5461.3	5341.1	5055.9	4639.6	4234.9	4033.9	4027.7	4040.7	4201.6	4622.0
35°	5926.5	5934.7	5794.1	5478.3	5010.4	4497.7	4169.7	4156.8	4128.3	4283.8	4730.6
37.5°	6401.9	6396.5	6214.5	5884.4	5398.2	4782.9	4364.6	4362.5	4264.1	4439.3	4901.1
40°	6719.7	6723.1	6612.4	6300.0	5790.0	5098.7	4614.5	4609.7	4480.7	4672.2	5124.5
42.5°	6844.0	6866.4	6894.9	6696.6	6200.2	5464.7	4912.6	4905.8	4782.9	5006.3	5387.3
45°	6852.8	6897.6	7074.2	7049.1	6615.8	5883.7	5293.6	5274.6	5186.3	5450.5	5701.1
47.5°	6776.7	6822.9	7116.3	7258.9	6987.3	6325.8	5739.1	5724.1	5648.1	6006.0	6040.6
50°	6610.4	6654.5	7029.4	7361.5	7292.9	6750.9	6252.5	6213.1	6172.3	6647.7	6429.0
52.5°	6298.7	6383.6	6913.2	7385.9	7475.5	7128.5	6792.4	6766.6	6789.0	7324.8	6818.2
55°	5560.5	5655.6	6613.8	7365.5	7610.7	7445.7	7332.3	7330.9	7447.0	8035.1	7235.8
57.5°	5146.9	5214.1	6003.9	7330.9	7771.0	7760.8	7866.7	7879.6	8105.8	8808.6	7673.2
60°	4913.3	4983.9	5694.9	7202.5	8019.5	8168.2	8412.0	8437.8	8775.3	9665.0	8199.5
62.5°	4700.7	4778.2	5503.4	6941.1	8312.2	8750.9	9065.3	9088.4	9484.3	10545.1	8708.1
65°	4337.4	4425.0	5223.0	6769.3	8578.4	9510.8	9895.9	9911.5	10298.6	11467.3	9097.2
67.5°	3824.0	3904.2	4693.9	6389.7	8775.3	10433.7	11000.1	11008.9	11106.0	12118.6	9296.2
70°	3224.4	3254.9	3940.1	5606.0	8542.4	11296.8	12210.2	12212.3	11842.2	12535.5	9263.6
72.5°	2265.5	2337.5	2860.4	4243.7	7341.1	11191.6	12838.4	12861.5	12184.4	12325.0	8523.4
75°	1389.4	1465.5	1794.2	2571.8	4657.3	8801.8	11861.9	12022.1	11542.7	10989.2	6962.8
77.5°	929.0	957.5	1170.8	1499.5	2110.0	5064.1	9119.6	9421.2	9588.9	8014.1	4452.9
80°	518.2	572.5	776.2	931.7	938.5	2012.2	5468.1	5538.7	5335.0	3191.1	1373.8
82.5°	274.4	304.2	518.2	547.4	512.0	673.7	2038.0	2040.0	1704.5	855.7	408.1
85°	212.6	237.7	355.2	334.1	261.5	298.8	672.3	709.0	580.0	350.4	133.1
87.5°	105.9	131.7	241.1	211.9	102.5	85.6	240.4	256.7	228.9	137.2	48.2
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°	3546.3	3546.3	3546.3	3546.3	3546.3	3546.3	3546.3	3546.3	3546.3	3546.3	3546.3
2.5°	3555.1	3561.2	3568.7	3560.5	3557.8	3546.9	3528.6	3524.5	3515.0	3515.7	3521.1
5°	3586.3	3596.5	3592.4	3561.2	3523.9	3471.6	3417.2	3371.1	3340.5	3338.5	3336.4
7.5°	3646.1	3652.9	3621.0	3532.0	3427.4	3306.5	3192.5	3092.6	3032.2	3017.2	3013.9
10°	3739.8	3738.5	3650.8	3471.6	3263.1	3047.1	2863.8	2725.2	2644.4	2620.7	2614.5
12.5°	3844.4	3828.8	3661.0	3361.6	3030.8	2731.3	2499.1	2344.9	2260.7	2233.6	2226.8
15°	3952.4	3913.7	3635.9	3197.2	2745.6	2391.1	2147.3	2004.7	1959.2	1944.3	1941.5
17.5°	4052.9	3978.2	3563.9	2974.5	2420.3	2052.2	1862.1	1805.1	1815.9	1835.6	1836.3
20°	4151.3	4021.6	3448.5	2693.3	2077.4	1773.1	1708.6	1750.7	1802.3	1842.4	1847.8
22.5°	4248.5	4052.2	3299.8	2368.7	1770.4	1616.3	1661.8	1738.5	1797.6	1841.0	1848.5
25°	4329.9	4059.7	3094.7	2022.4	1557.2	1557.2	1639.3	1712.0	1770.4	1813.2	1820.7
27.5°	4359.8	4009.4	2805.4	1701.8	1449.9	1530.0	1608.1	1668.6	1718.1	1763.6	1771.8
30°	4371.4	3916.4	2471.2	1444.4	1405.7	1500.8	1566.0	1617.6	1664.5	1707.3	1714.7
32.5°	4373.4	3804.3	2116.8	1298.4	1375.2	1470.3	1513.7	1559.2	1609.5	1626.4	1629.2
35°	4386.3	3671.9	1743.3	1223.7	1346.7	1441.7	1476.4	1509.0	1427.5	1433.6	1439.0
37.5°	4423.7	3540.8	1430.9	1181.6	1328.3	1426.8	1468.2	1350.1	1286.2	1271.3	1269.2
40°	4493.6	3400.9	1199.3	1147.7	1321.5	1434.3	1415.9	1260.4	1150.4	1068.2	1056.0
42.5°	4590.7	3250.2	1051.2	1125.3	1326.3	1470.3	1343.3	1174.2	991.5	938.5	931.7
45°	4700.1	3091.9	971.1	1109.7	1342.6	1498.1	1328.3	1059.4	917.5	877.4	874.0
47.5°	4806.0	2898.4	929.7	1102.9	1365.0	1475.7	1265.2	1024.1	882.2	861.1	863.1
50°	4927.6	2723.9	904.6	1095.4	1384.7	1461.4	1193.9	1005.7	868.6	894.4	921.5
52.5°	5030.1	2543.2	882.2	1080.4	1392.2	1436.3	1175.5	1009.1	868.6	918.1	944.0
55°	5151.7	2406.7	856.3	1049.2	1377.9	1365.0	1162.6	1029.5	878.8	847.5	850.2
57.5°	5308.5	2361.9	827.8	1000.3	1330.4	1261.1	1156.5	1049.2	872.6	853.0	859.7
60°	5525.8	2409.5	816.3	936.5	1256.3	1179.6	1157.2	1039.0	829.9	795.9	796.6
62.5°	5733.0	2462.4	815.6	896.4	1165.3	1106.9	1141.6	1005.7	808.1	788.4	795.9
65°	5800.9	2408.8	783.0	851.6	1062.8	1020.0	1113.0	970.4	791.8	762.0	760.6
67.5°	5709.9	2242.4	717.1	778.9	945.3	918.8	1075.7	928.3	766.0	741.6	737.5
70°	5439.6	1870.9	635.6	683.2	811.5	804.7	1016.6	879.4	731.4	710.3	692.7
72.5°	4712.3	1333.1	535.8	568.4	660.8	682.5	935.1	815.6	682.5	637.0	609.8
75°	3870.2	986.7	440.1	446.8	501.9	560.9	823.1	740.9	624.8	547.4	526.3
77.5°	2370.1	603.7	350.4	353.1	359.9	447.5	677.7	657.4	551.4	456.4	441.4
80°	767.4	329.4	253.3	266.2	245.8	328.0	524.3	559.6	473.3	381.7	365.4
82.5°	292.0	192.2	171.1	180.0	170.5	220.0	382.3	448.2	387.8	313.7	255.3
85°	141.3	108.7	101.2	113.4	105.3	112.7	244.5	330.0	294.1	204.4	190.1
87.5°	50.3	48.2	38.7	52.3	44.8	40.1	74.7	166.4	194.2	140.6	125.6
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)