

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: P318687

Luminaire Tested: **GAN-SA3C-730-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318687
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-SA3C-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA 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: 19783 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

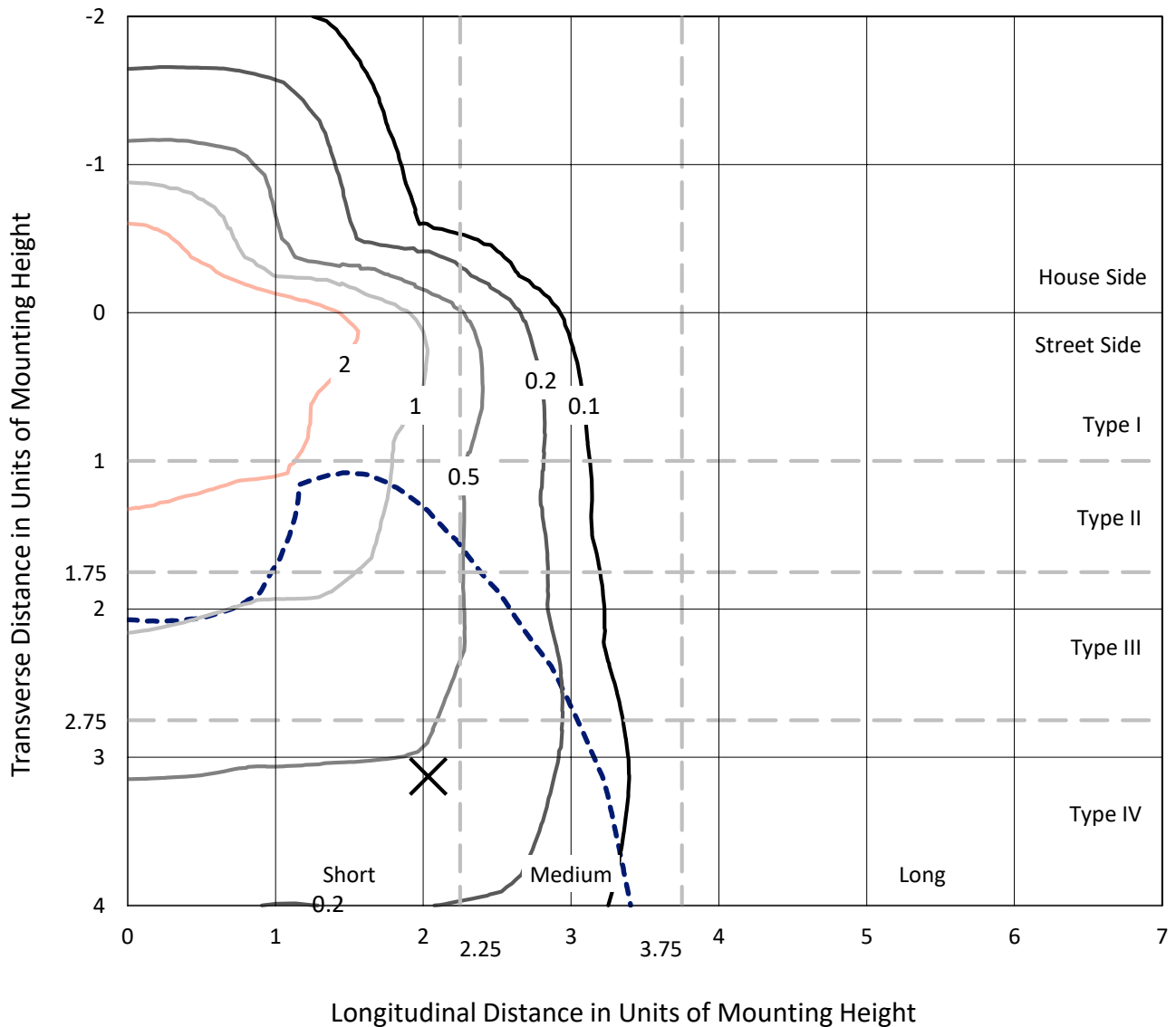
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

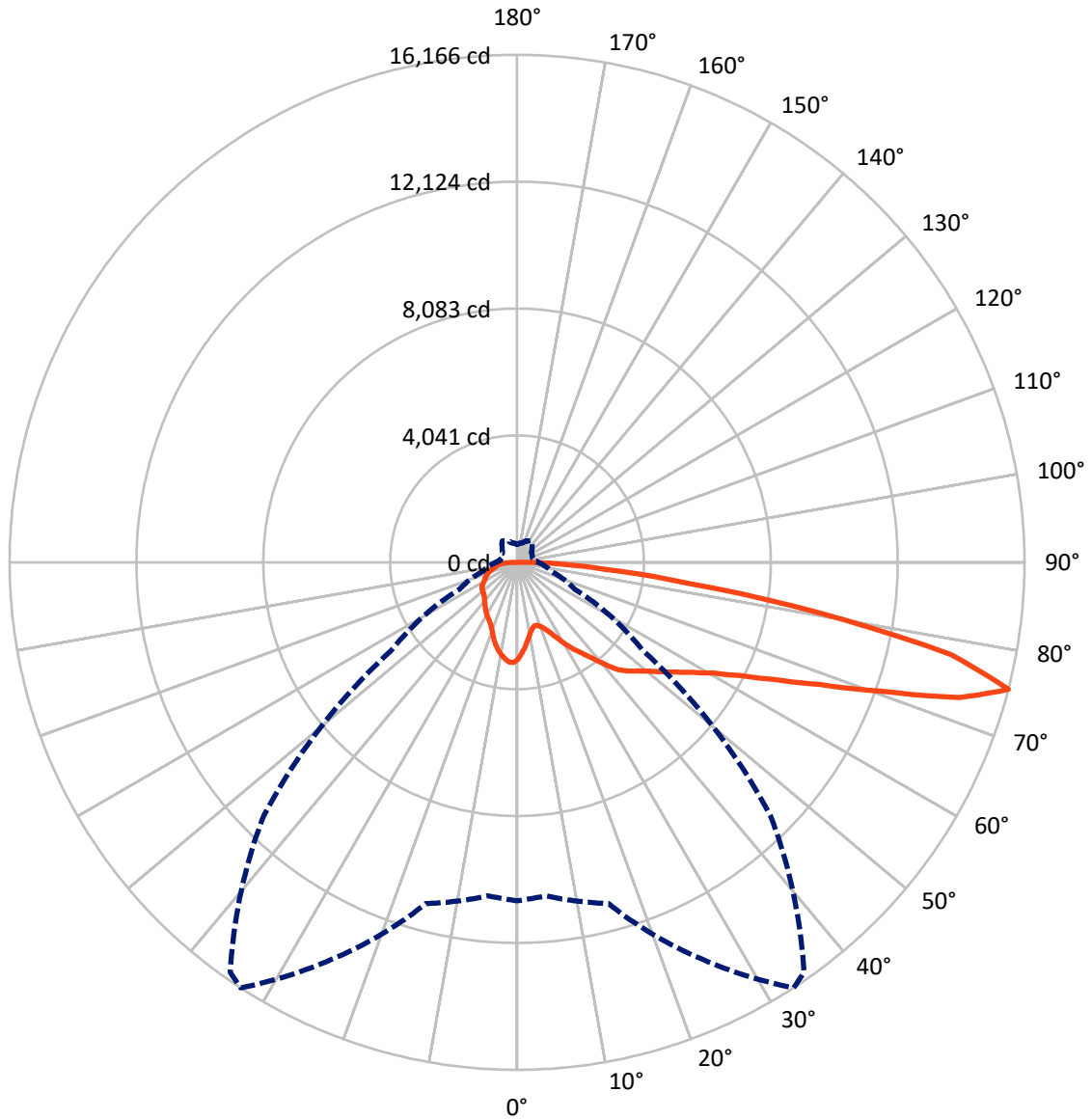
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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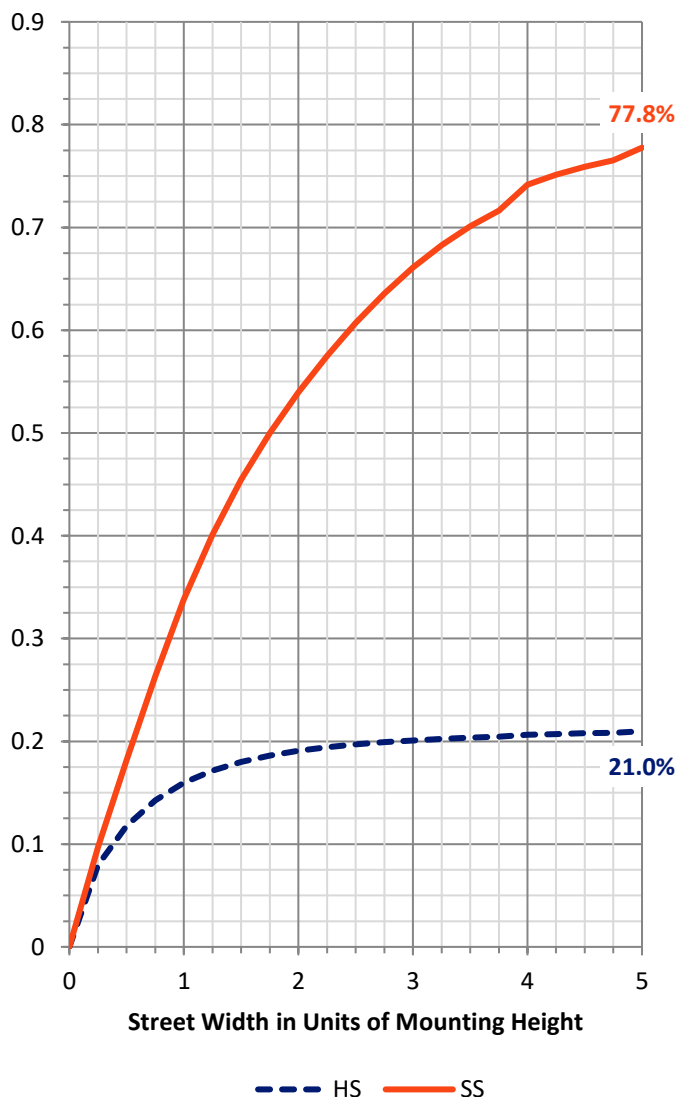
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4247.9	0.0	4247.9
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	15535.1	0.0	15535.1
	% Fixture	78.5	0.0	78.5
Total	Lumens	19783.0	0.0	19783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.6	1.4
10°-20°	757.4	3.8
20°-30°	1237.0	6.3
30°-40°	1842.1	9.3
40°-50°	2642.1	13.4
50°-60°	3627.2	18.3
60°-70°	4541.1	23.0
70°-80°	4108.1	20.8
80°-90°	748.3	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°	19783.0	100.0
0°-180°	19783.0	100.0

Coefficient of Utilization

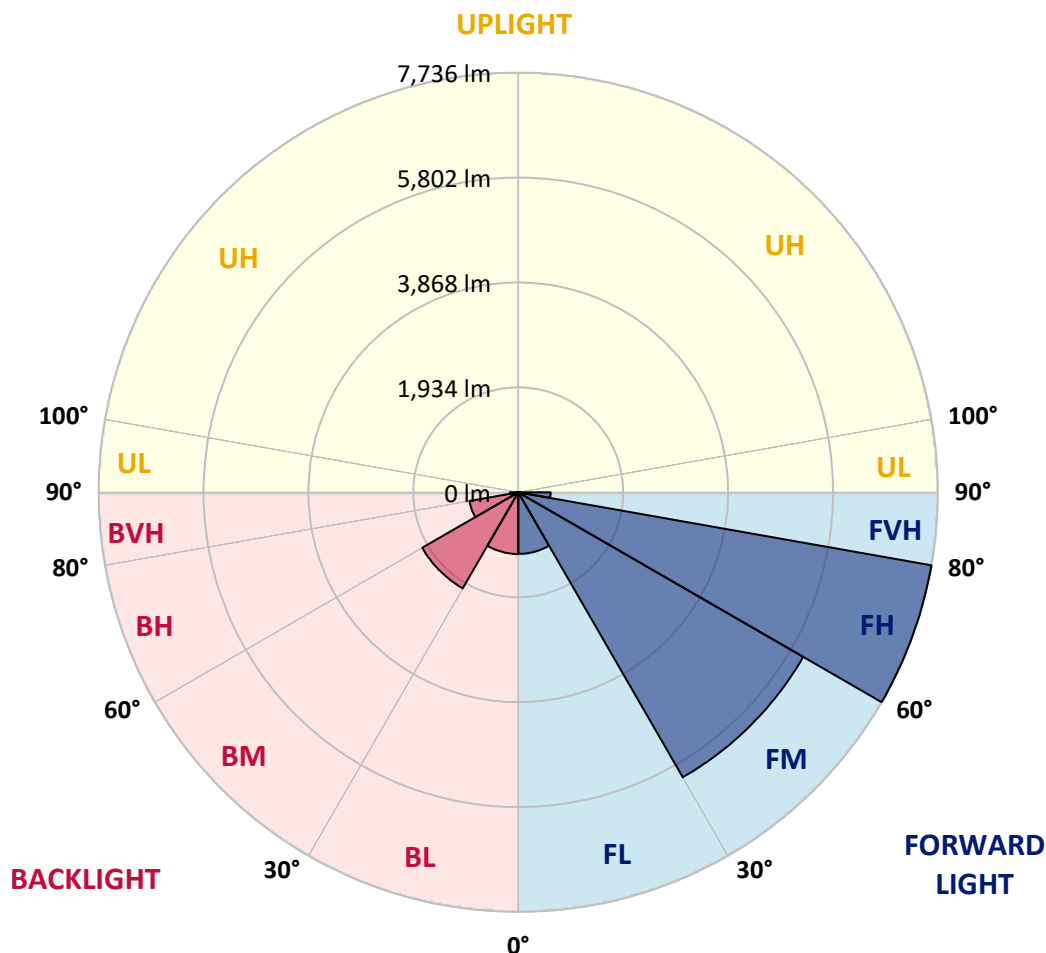


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1136.2	5.7			
FM (30°-60°)	6067.0	30.7			
FH (60°-80°)	7735.8	39.1			G4/12000
FVH (80°-90°)	596.0	3.0			G4/750
BL (0°-30°)	1137.8	5.8	B3/2500		
BM (30°-60°)	2044.4	10.3	B2/2500		
BH (60°-80°)	913.4	4.6	B2/1000		G2/1000
BVH (80°-90°)	152.3	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	3092.2	3092.2	3092.2	3092.2	3092.2	3092.2	3092.2	3092.2	3092.2	3092.2	3092.2
2.5°	2871.5	2860.5	2881.0	2883.8	2901.5	2908.4	2933.0	2971.2	3002.7	3038.9	3071.7
5°	2611.1	2603.6	2632.3	2652.8	2691.7	2708.1	2766.2	2847.6	2920.0	3002.0	3076.5
7.5°	2363.7	2359.6	2391.8	2438.2	2483.3	2505.9	2606.3	2724.5	2845.5	2978.1	3092.2
10°	2155.3	2153.9	2184.7	2230.5	2296.8	2322.0	2451.9	2607.7	2777.2	2959.6	3118.8
12.5°	2038.5	2043.2	2057.6	2095.9	2157.4	2182.6	2326.8	2510.0	2719.8	2953.5	3157.8
15°	2067.2	2074.7	2050.1	2048.7	2092.4	2112.3	2247.6	2440.3	2678.8	2963.7	3214.5
17.5°	2189.5	2190.8	2125.9	2084.9	2111.6	2121.8	2223.0	2400.6	2654.8	2987.0	3285.6
20°	2361.7	2358.3	2243.5	2175.1	2189.5	2192.2	2257.8	2401.3	2652.8	3027.3	3377.8
22.5°	2589.9	2564.6	2410.2	2317.3	2313.8	2309.7	2347.3	2451.9	2682.9	3092.9	3487.9
25°	2887.9	2864.0	2651.4	2524.3	2497.0	2486.7	2492.2	2559.9	2742.3	3163.3	3610.9
27.5°	3219.3	3177.6	2972.6	2792.9	2736.2	2721.8	2689.0	2712.2	2807.2	3230.9	3757.1
30°	3496.7	3474.2	3295.2	3081.9	3015.0	2994.5	2908.4	2883.1	2900.9	3323.2	3941.6
32.5°	3651.9	3636.8	3528.2	3356.0	3293.8	3265.1	3143.4	3092.9	3051.2	3468.7	4191.7
35°	3839.8	3830.2	3764.6	3639.6	3547.3	3517.2	3422.9	3370.3	3263.0	3668.9	4514.9
37.5°	4079.0	4068.7	4070.1	3968.9	3858.9	3830.9	3768.7	3713.4	3537.7	3932.0	4866.2
40°	4349.6	4329.8	4322.2	4317.5	4247.8	4232.0	4199.2	4124.1	3882.2	4246.4	5212.7
42.5°	4756.9	4686.5	4536.1	4592.8	4661.9	4653.7	4680.3	4572.3	4264.8	4618.1	5550.9
45°	5149.8	5034.3	4774.6	4786.9	4937.9	4983.7	5183.3	5106.7	4679.6	5025.4	5900.8
47.5°	5328.8	5241.4	5020.6	5021.3	5171.0	5266.0	5703.3	5648.6	5115.6	5488.0	6327.9
50°	5529.0	5441.6	5243.4	5317.9	5448.4	5549.5	6205.6	6177.6	5530.4	5994.4	6839.7
52.5°	5747.7	5599.4	5473.7	5607.0	5790.1	5907.6	6708.5	6632.0	5911.0	6504.2	7428.1
55°	5750.5	5710.1	5805.8	5903.5	6177.6	6321.7	7235.4	7033.1	6221.3	7005.1	7907.1
57.5°	6077.8	6012.2	6215.1	6260.2	6618.3	6781.0	7759.5	7382.3	6537.0	7389.1	8165.4
60°	6511.0	6455.0	6621.1	6740.0	7163.6	7380.9	8319.2	7741.1	6785.1	7678.9	8153.1
62.5°	7259.3	7195.8	7193.7	7360.4	7931.1	8183.9	8947.2	8093.0	6883.5	7736.3	7805.3
65°	8354.7	8253.6	8062.9	8142.2	8990.9	9243.1	9649.0	8347.9	6753.6	7428.8	6909.4
67.5°	9420.8	9417.4	9183.0	9345.6	10390.5	10592.7	10448.5	8373.2	6348.4	6358.0	5319.9
70°	10483.4	10497.1	10457.4	11023.2	12281.3	12491.8	11300.0	8033.6	5437.5	4591.5	3187.2
72.5°	11325.3	11321.9	11521.4	12980.4	14735.2	14688.1	12017.5	7004.4	3904.0	2478.5	1523.2
75°	10780.0	10661.1	11255.6	13949.4	16165.5	15935.2	11407.3	4886.0	2026.2	1128.2	820.0
77.5°	7031.1	7143.8	8016.5	11523.5	14140.0	13859.9	8369.1	2279.7	954.7	740.1	594.5
80°	2546.2	2665.1	3753.7	6527.4	9741.9	9696.2	4121.3	936.9	645.8	559.0	433.2
82.5°	876.1	919.8	1480.8	2898.8	5500.3	5705.4	1550.5	532.3	469.5	396.3	296.6
85°	343.7	393.6	677.2	1394.7	2774.4	2794.9	628.0	318.4	326.6	259.7	162.6
87.5°	130.5	158.5	323.9	647.8	1266.9	1163.8	224.8	151.7	185.9	154.4	77.2
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°	3092.2	3092.2	3092.2	3092.2	3092.2	3092.2	3092.2	3092.2	3092.2	3092.2	3092.2
2.5°	3097.0	3111.3	3141.4	3161.9	3183.8	3189.9	3192.6	3198.1	3203.6	3201.5	3202.2
5°	3116.1	3144.1	3192.6	3213.1	3222.7	3211.8	3190.6	3173.5	3161.2	3154.4	3152.3
7.5°	3147.5	3187.2	3239.1	3235.7	3213.8	3165.3	3110.6	3069.6	3035.5	3023.2	3016.3
10°	3189.2	3235.7	3271.9	3233.0	3169.4	3085.4	3003.4	2939.8	2888.6	2868.7	2865.3
12.5°	3242.5	3289.7	3296.5	3213.8	3108.6	2993.8	2882.4	2798.3	2721.8	2697.2	2691.7
15°	3311.6	3356.0	3313.6	3180.3	3033.4	2879.0	2734.8	2620.7	2540.0	2510.0	2499.0
17.5°	3384.0	3426.4	3317.0	3125.0	2935.0	2743.0	2561.9	2445.1	2352.8	2317.9	2313.8
20°	3470.8	3489.9	3302.7	3045.7	2799.7	2566.7	2376.0	2266.0	2216.8	2192.2	2189.5
22.5°	3578.1	3557.6	3269.9	2938.4	2628.2	2363.1	2207.9	2156.7	2144.4	2138.9	2141.0
25°	3691.5	3628.6	3221.3	2798.3	2411.6	2159.4	2084.9	2099.3	2115.7	2113.6	2113.6
27.5°	3816.6	3701.1	3146.9	2612.5	2171.7	1992.7	2001.6	2054.2	2078.8	2078.1	2077.4
30°	3977.1	3783.1	3051.9	2389.0	1947.6	1875.1	1929.1	1993.4	2026.8	2025.5	2026.2
32.5°	4174.6	3873.3	2922.7	2139.6	1785.6	1788.3	1850.5	1914.1	1953.0	1949.6	1950.3
35°	4405.6	3974.4	2747.8	1893.6	1678.3	1719.3	1768.5	1812.9	1849.8	1845.1	1840.3
37.5°	4657.1	4073.5	2515.4	1673.5	1590.9	1655.1	1696.1	1703.6	1720.7	1708.4	1699.5
40°	4896.3	4149.3	2216.1	1493.1	1502.7	1600.4	1627.1	1597.0	1566.3	1562.2	1549.9
42.5°	5104.7	4174.6	1913.4	1348.9	1409.8	1543.0	1559.4	1496.6	1441.2	1415.2	1404.3
45°	5324.7	4183.5	1631.2	1228.0	1320.2	1491.8	1509.5	1425.5	1347.6	1291.5	1273.1
47.5°	5612.4	4247.8	1411.8	1138.5	1251.9	1457.6	1482.9	1368.8	1267.6	1187.7	1170.6
50°	5988.9	4374.9	1233.5	1070.1	1207.5	1435.1	1463.8	1313.4	1202.0	1105.7	1088.6
52.5°	6407.2	4491.7	1089.3	1014.8	1164.4	1395.4	1439.2	1273.8	1140.5	1029.8	1011.4
55°	6699.6	4402.2	973.1	957.4	1108.4	1338.7	1405.0	1240.3	1052.4	956.0	939.6
57.5°	6755.7	4096.0	884.9	897.9	1040.8	1267.6	1352.4	1165.8	1004.5	923.9	906.8
60°	6602.6	3669.6	819.3	843.3	968.3	1178.1	1254.0	1113.2	958.8	889.7	875.4
62.5°	6217.9	3233.0	770.8	794.1	900.7	1087.2	1192.5	1057.8	912.3	850.8	836.4
65°	5440.9	2714.3	724.4	750.3	837.8	1008.6	1137.1	1006.6	866.5	819.3	805.7
67.5°	4107.0	2033.0	680.6	703.9	781.8	940.3	1077.0	956.0	822.1	792.0	775.6
70°	2418.4	1273.1	630.7	655.3	723.0	869.2	1012.7	900.7	766.7	753.1	731.9
72.5°	1125.5	766.0	574.0	597.9	649.2	774.2	930.0	828.2	701.1	671.1	642.4
75°	671.7	560.4	507.1	528.2	564.5	673.1	826.2	754.4	638.9	599.3	569.2
77.5°	502.3	428.5	433.2	455.8	485.2	589.1	731.9	696.3	591.1	560.4	539.9
80°	361.5	325.3	353.3	377.9	408.6	535.8	701.1	643.7	534.4	493.4	474.3
82.5°	241.2	233.7	265.8	291.1	321.2	468.8	658.8	563.8	456.5	404.5	362.2
85°	133.3	140.8	179.0	190.0	215.9	330.1	539.9	453.1	343.7	276.8	264.5
87.5°	55.4	64.9	96.4	92.9	114.8	196.8	355.3	273.3	218.7	163.3	127.1
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)