

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: P317769

Luminaire Tested: **GAN-SA5C-740-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317769
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-SA5C-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 36145 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

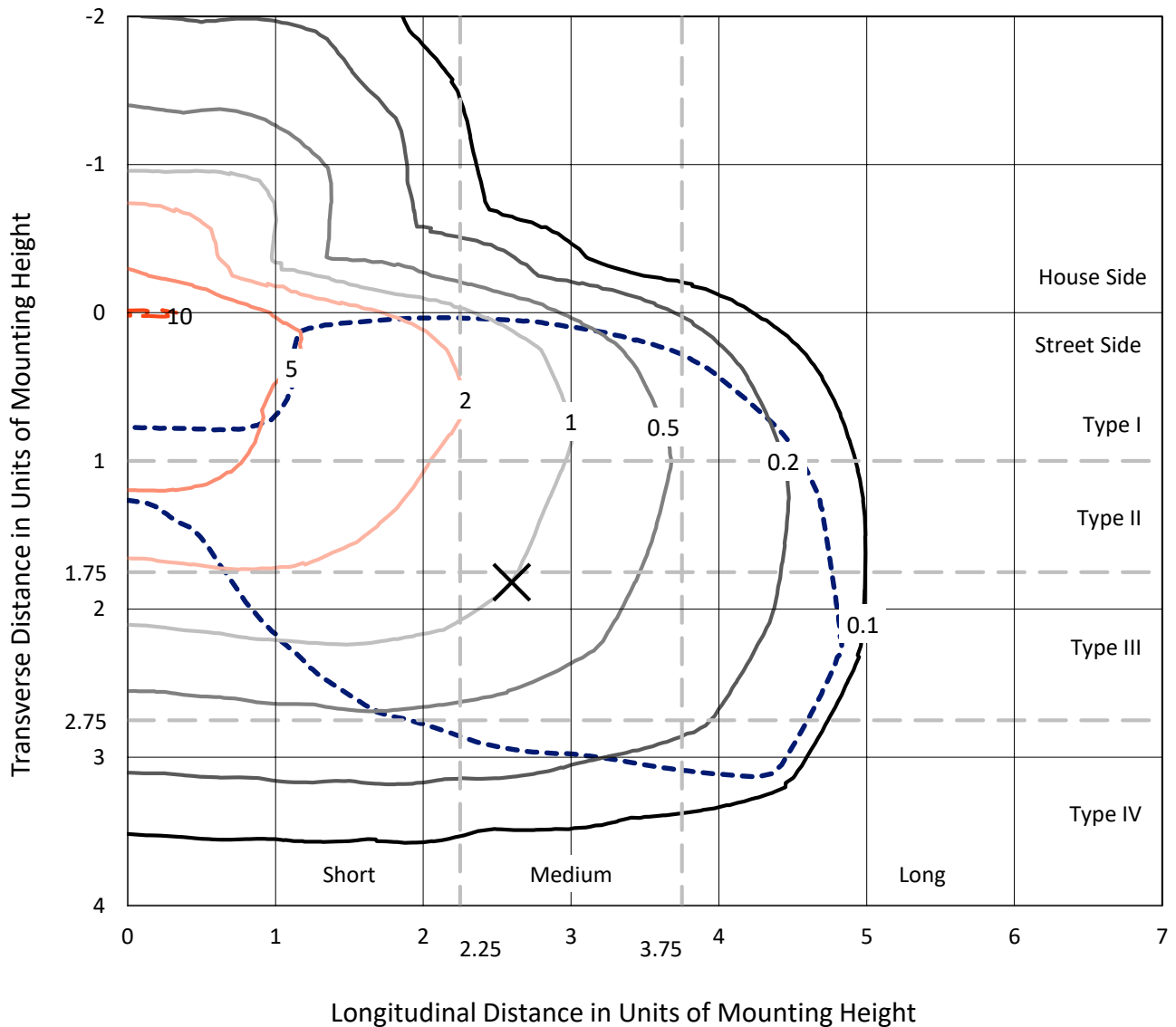
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

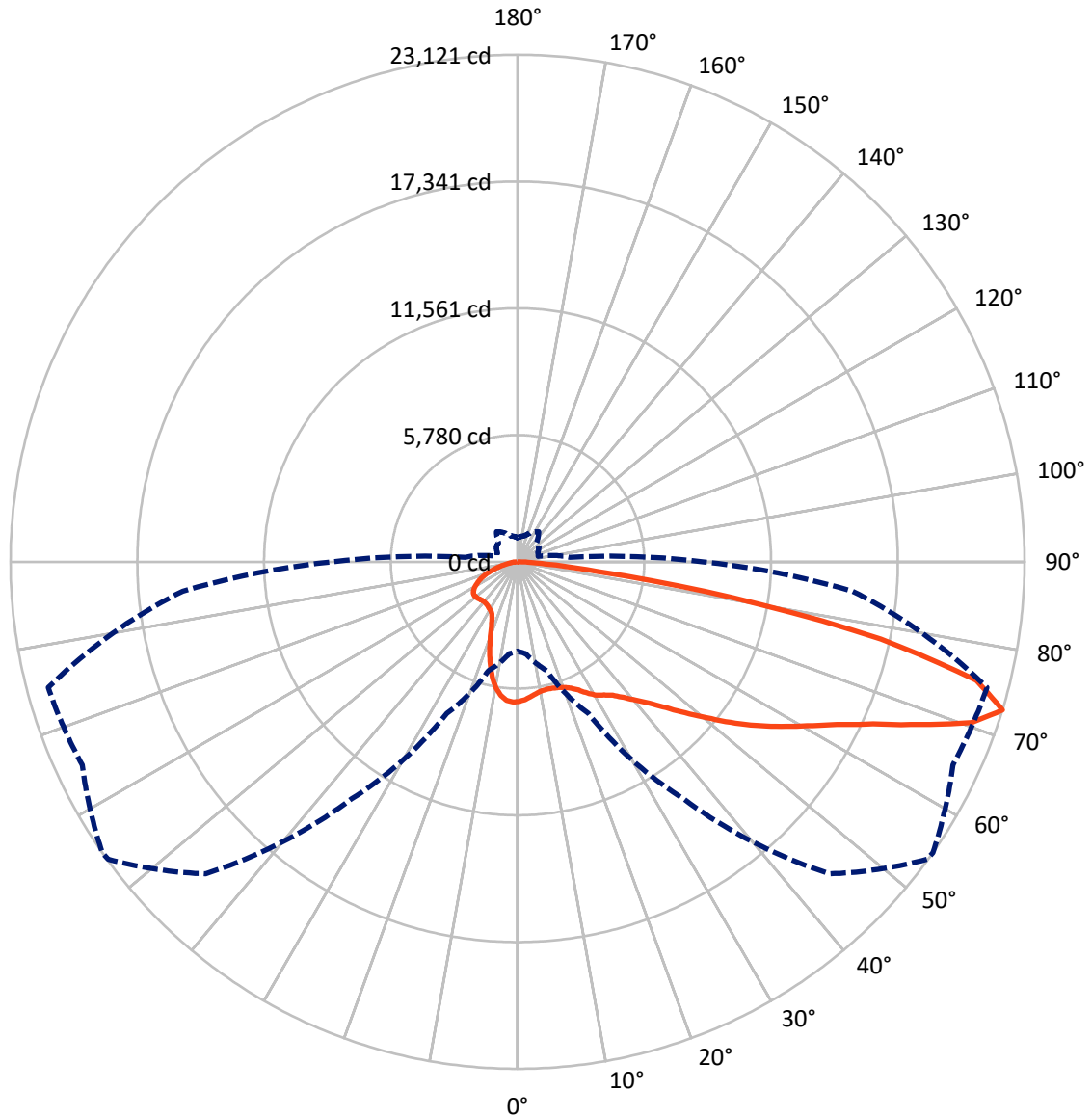
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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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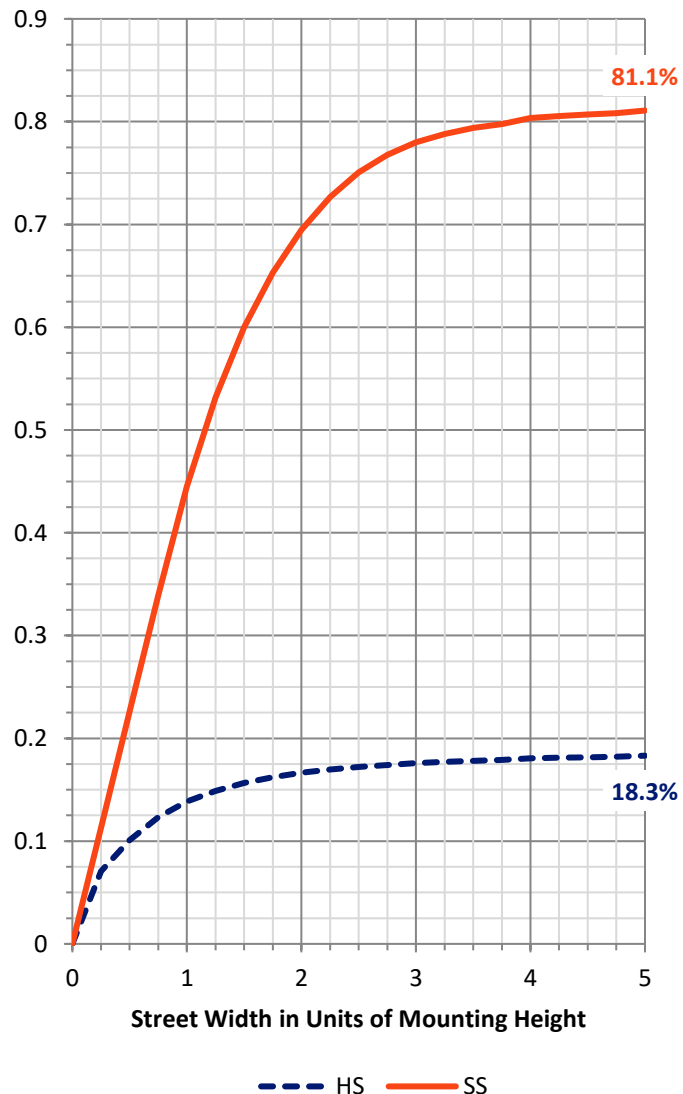
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6718.2	0.0	6718.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	29426.8	0.0	29426.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	36145.0	0.0	36145.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.9	1.6
10°-20°	1535.9	4.2
20°-30°	2532.3	7.0
30°-40°	3745.9	10.4
40°-50°	5228.4	14.5
50°-60°	6807.6	18.8
60°-70°	8366.3	23.1
70°-80°	6558.2	18.1
80°-90°	793.6	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°	36145.0	100.0
0°-180°	36145.0	100.0

Coefficient of Utilization

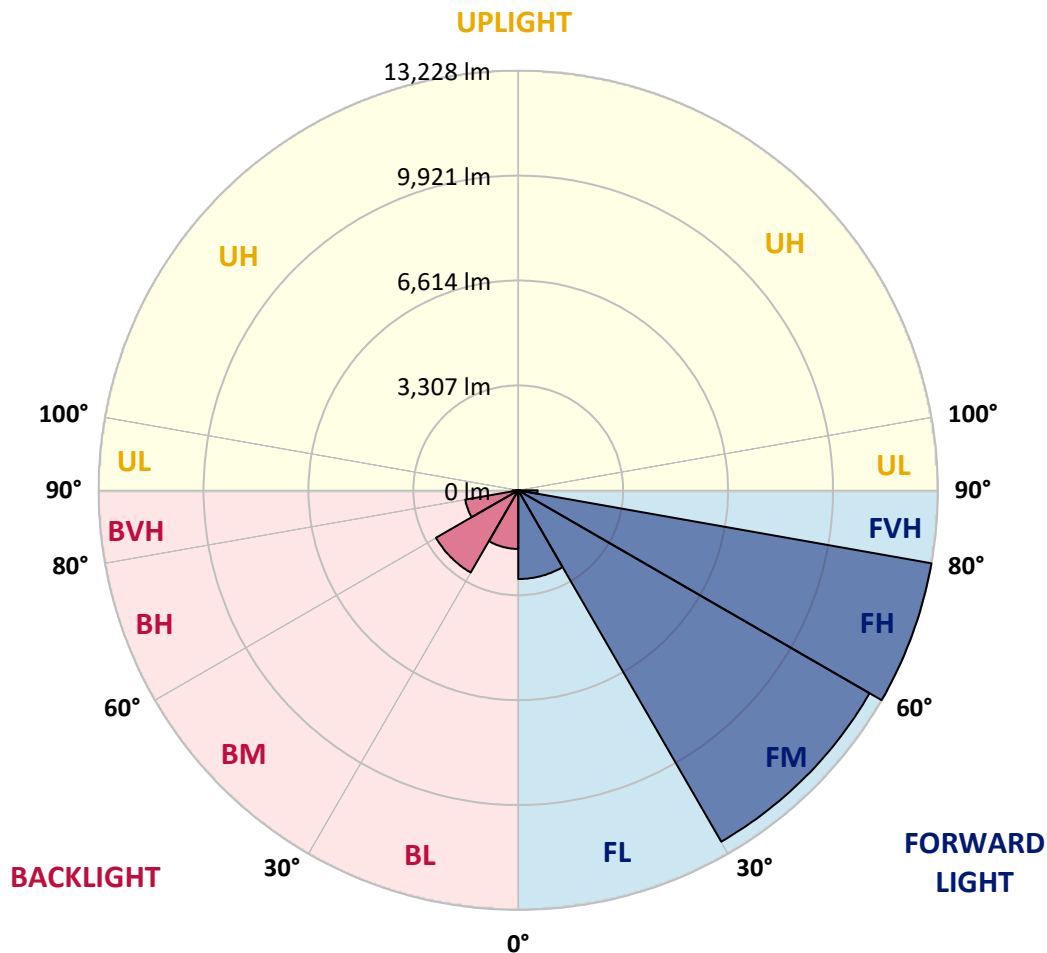


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2796.6	7.7			
FM (30°-60°)	12788.8	35.4			
FH (60°-80°)	13227.8	36.6			G5
FVH (80°-90°)	613.6	1.7			G4/750
BL (0°-30°)	1848.4	5.1	B3/2500		
BM (30°-60°)	2993.0	8.3	B3/5000		
BH (60°-80°)	1696.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	180.0	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-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6375.2	6375.2	6375.2	6375.2	6375.2	6375.2	6375.2	6375.2	6375.2	6375.2	6375.2
2.5°	6167.7	6153.0	6171.3	6197.0	6225.0	6262.9	6284.9	6294.6	6332.5	6347.1	6378.9
5°	5882.0	5874.7	5905.2	5949.1	6011.4	6099.3	6170.1	6183.5	6283.6	6354.4	6419.2
7.5°	5674.4	5674.4	5709.8	5762.3	5831.9	5950.3	6050.5	6068.8	6238.5	6391.1	6510.7
10°	5509.6	5515.7	5557.2	5619.5	5701.3	5827.0	5960.1	5980.9	6226.3	6476.5	6667.0
12.5°	5399.8	5414.4	5452.2	5508.4	5609.7	5762.3	5930.8	5958.9	6251.9	6598.6	6855.0
15°	5469.3	5493.8	5497.4	5520.6	5576.8	5742.8	5947.9	5977.2	6306.8	6723.1	7068.6
17.5°	5774.5	5783.1	5745.2	5696.4	5669.6	5775.8	5999.2	6029.7	6372.8	6846.4	7273.7
20°	6238.5	6233.6	6151.8	6019.9	5883.2	5900.3	6083.4	6115.2	6461.9	6955.1	7478.8
22.5°	6824.5	6807.4	6681.6	6438.7	6205.5	6107.8	6231.1	6258.0	6596.2	7110.1	7698.6
25°	7535.0	7497.1	7331.1	7005.2	6662.1	6410.6	6453.3	6479.0	6791.5	7283.5	7900.0
27.5°	8284.6	8246.7	8035.5	7641.2	7184.6	6792.7	6759.8	6781.7	7013.7	7411.7	8049.0
30°	9068.4	9028.1	8835.2	8393.2	7738.9	7188.3	7045.4	7054.0	7170.0	7481.3	8171.0
32.5°	9855.8	9818.0	9601.9	9089.1	8340.7	7613.1	7251.8	7240.8	7264.0	7553.3	8309.0
35°	10654.2	10668.9	10416.2	9848.5	9007.3	8085.6	7495.9	7472.7	7421.5	7701.0	8504.3
37.5°	11508.8	11499.0	11171.9	10578.5	9704.4	8598.3	7846.3	7842.6	7665.6	7980.6	8810.8
40°	12080.2	12086.3	11887.3	11325.7	10408.8	9166.0	8295.6	8287.0	8055.1	8399.3	9212.4
42.5°	12303.6	12343.9	12395.1	12038.7	11146.2	9824.1	8831.5	8819.3	8598.3	9000.0	9684.9
45°	12319.4	12400.0	12717.4	12672.3	11893.4	10577.3	9516.4	9482.2	9323.5	9798.4	10248.9
47.5°	12182.7	12265.7	12793.1	13049.5	12561.2	11372.1	10317.3	10290.4	10153.7	10797.1	10859.3
50°	11883.6	11963.0	12636.9	13233.9	13110.5	12136.3	11240.2	11169.4	11096.2	11950.8	11557.6
52.5°	11323.2	11475.8	12428.1	13277.8	13439.0	12815.1	12210.8	12164.4	12204.7	13167.9	12257.2
55°	9996.2	10167.1	11889.7	13241.2	13681.9	13385.2	13181.4	13178.9	13387.7	14444.9	13008.0
57.5°	9252.7	9373.6	10793.4	13178.9	13970.0	13951.7	14142.2	14165.3	14571.9	15835.5	13794.2
60°	8832.7	8959.7	10237.9	12948.2	14416.8	14684.2	15122.5	15168.9	15775.6	17374.9	14740.4
62.5°	8450.6	8589.8	9893.6	12478.2	14943.0	15731.7	16296.9	16338.4	17050.2	18957.1	15654.8
65°	7797.5	7955.0	9389.4	12169.3	15421.6	17097.8	17790.0	17818.1	18514.0	20615.0	16354.3
67.5°	6874.5	7018.6	8438.4	11486.8	15775.6	18756.9	19775.1	19791.0	19965.5	21785.8	16712.0
70°	5796.5	5851.5	7083.3	10078.0	15356.9	20308.6	21950.6	21954.3	21288.9	22535.4	16653.4
72.5°	4072.7	4202.1	5142.2	7629.0	13197.2	20119.4	23079.9	23121.4	21904.2	22156.9	15322.7
75°	2497.8	2634.6	3225.4	4623.3	8372.5	15823.2	21324.3	21612.4	20750.5	19755.6	12517.2
77.5°	1670.1	1721.4	2104.7	2695.6	3793.1	9103.8	16394.6	16936.6	17238.2	14407.1	8005.0
80°	931.5	1029.2	1395.4	1675.0	1687.2	3617.3	9830.2	9957.1	9590.9	5736.7	2469.7
82.5°	493.2	546.9	931.5	984.0	920.5	1211.1	3663.7	3667.4	3064.3	1538.3	733.7
85°	382.1	427.3	638.5	600.7	470.0	537.2	1208.6	1274.6	1042.6	630.0	239.3
87.5°	190.5	236.8	433.4	380.9	184.3	153.8	432.2	461.5	411.4	246.6	86.7
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°	6375.2	6375.2	6375.2	6375.2	6375.2	6375.2	6375.2	6375.2	6375.2	6375.2	6375.2
2.5°	6391.1	6402.1	6415.5	6400.8	6396.0	6376.4	6343.5	6336.1	6319.0	6320.3	6330.0
5°	6447.2	6465.5	6458.2	6402.1	6334.9	6240.9	6143.2	6060.2	6005.3	6001.6	5998.0
7.5°	6554.7	6566.9	6509.5	6349.6	6161.6	5944.2	5739.1	5559.7	5451.0	5424.2	5418.1
10°	6723.1	6720.7	6563.2	6240.9	5866.1	5477.9	5148.3	4899.2	4753.9	4711.2	4700.2
12.5°	6911.1	6883.1	6581.5	6043.1	5448.6	4910.2	4492.7	4215.5	4064.2	4015.3	4003.1
15°	7105.3	7035.7	6536.4	5747.7	4935.8	4298.6	3860.3	3603.9	3522.1	3495.3	3490.4
17.5°	7285.9	7151.7	6406.9	5347.3	4351.1	3689.4	3347.5	3245.0	3264.5	3299.9	3301.1
20°	7463.0	7229.8	6199.4	4841.8	3734.5	3187.6	3071.6	3147.3	3240.1	3312.1	3321.9
22.5°	7637.5	7284.7	5932.0	4258.3	3182.7	2905.6	2987.4	3125.3	3231.6	3309.7	3323.1
25°	7784.0	7298.2	5563.3	3635.6	2799.4	2799.4	2947.1	3077.7	3182.7	3259.6	3273.1
27.5°	7837.8	7207.8	5043.3	3059.4	2606.5	2750.5	2890.9	2999.6	3088.7	3170.5	3185.2
30°	7858.5	7040.6	4442.6	2596.7	2527.1	2698.0	2815.2	2908.0	2992.3	3069.2	3082.6
32.5°	7862.2	6839.1	3805.3	2334.2	2472.2	2643.1	2721.2	2803.0	2893.4	2923.9	2928.8
35°	7885.4	6601.1	3133.9	2199.9	2420.9	2591.8	2654.1	2712.7	2566.2	2577.2	2586.9
37.5°	7952.5	6365.4	2572.3	2124.3	2388.0	2565.0	2639.4	2427.0	2312.3	2285.4	2281.7
40°	8078.3	6113.9	2156.0	2063.2	2375.7	2578.4	2545.4	2265.9	2068.1	1920.4	1898.4
42.5°	8252.8	5842.9	1889.9	2022.9	2384.3	2643.1	2414.8	2110.8	1782.4	1687.2	1675.0
45°	8449.4	5558.5	1745.8	1994.8	2413.6	2693.2	2388.0	1904.5	1649.3	1577.3	1571.2
47.5°	8639.8	5210.5	1671.3	1982.6	2453.9	2652.9	2274.4	1841.0	1585.9	1548.0	1551.7
50°	8858.4	4896.8	1626.2	1969.2	2489.3	2627.2	2146.2	1808.1	1561.4	1607.8	1656.7
52.5°	9042.7	4572.0	1585.9	1942.3	2502.7	2582.1	2113.3	1814.2	1561.4	1650.6	1697.0
55°	9261.3	4326.6	1539.5	1886.2	2477.1	2453.9	2090.1	1850.8	1579.8	1523.6	1528.5
57.5°	9543.3	4246.1	1488.2	1798.3	2391.6	2267.1	2079.1	1886.2	1568.8	1533.4	1545.6
60°	9933.9	4331.5	1467.4	1683.5	2258.5	2120.6	2080.3	1867.9	1491.9	1430.8	1432.0
62.5°	10306.3	4426.7	1466.2	1611.5	2095.0	1990.0	2052.2	1808.1	1452.8	1417.4	1430.8
65°	10428.4	4330.3	1407.6	1530.9	1910.6	1833.7	2000.9	1744.6	1423.5	1369.8	1367.3
67.5°	10264.8	4031.2	1289.2	1400.3	1699.4	1651.8	1933.8	1668.9	1377.1	1333.2	1325.8
70°	9778.9	3363.4	1142.7	1228.2	1458.9	1446.7	1827.6	1581.0	1314.8	1277.0	1245.3
72.5°	8471.4	2396.5	963.2	1021.8	1187.9	1226.9	1681.1	1466.2	1226.9	1145.1	1096.3
75°	6957.5	1773.9	791.1	803.3	902.2	1008.4	1479.7	1331.9	1123.2	984.0	946.1
77.5°	4260.7	1085.3	630.0	634.8	647.0	804.5	1218.4	1181.8	991.3	820.4	793.5
80°	1379.5	592.1	455.4	478.6	441.9	589.7	942.5	1006.0	850.9	686.1	656.8
82.5°	525.0	345.5	307.7	323.5	306.4	395.6	687.3	805.8	697.1	564.0	459.0
85°	253.9	195.3	181.9	203.9	189.2	202.7	439.5	593.3	528.6	367.5	341.8
87.5°	90.3	86.7	69.6	94.0	80.6	72.0	134.3	299.1	349.2	252.7	225.9
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)