

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: P317777

Luminaire Tested: **GAN-SA3D-740-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317777
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-SA3D-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24220 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

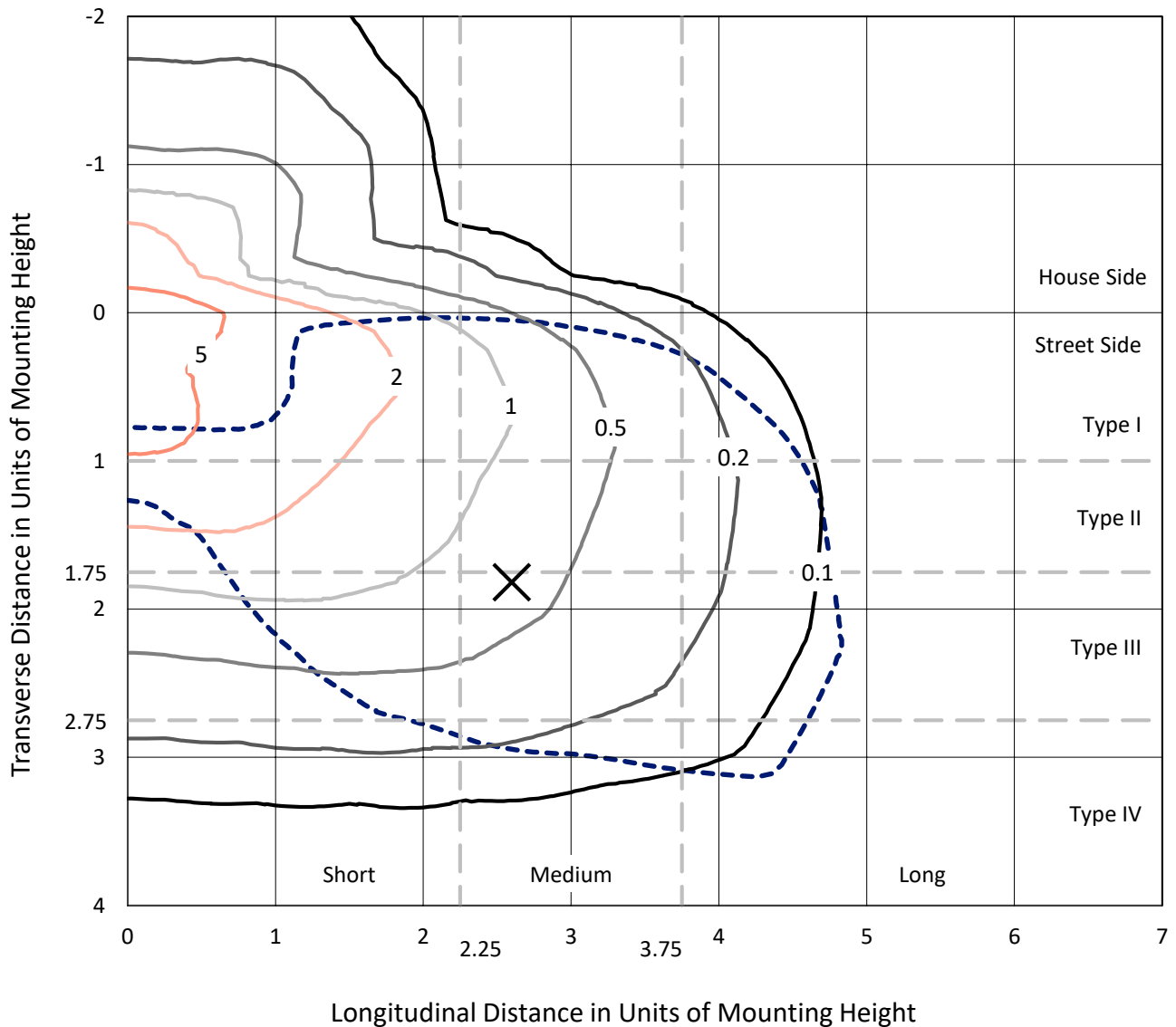
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317777
 CATALOG NUMBER: GAN-SA3D-740-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

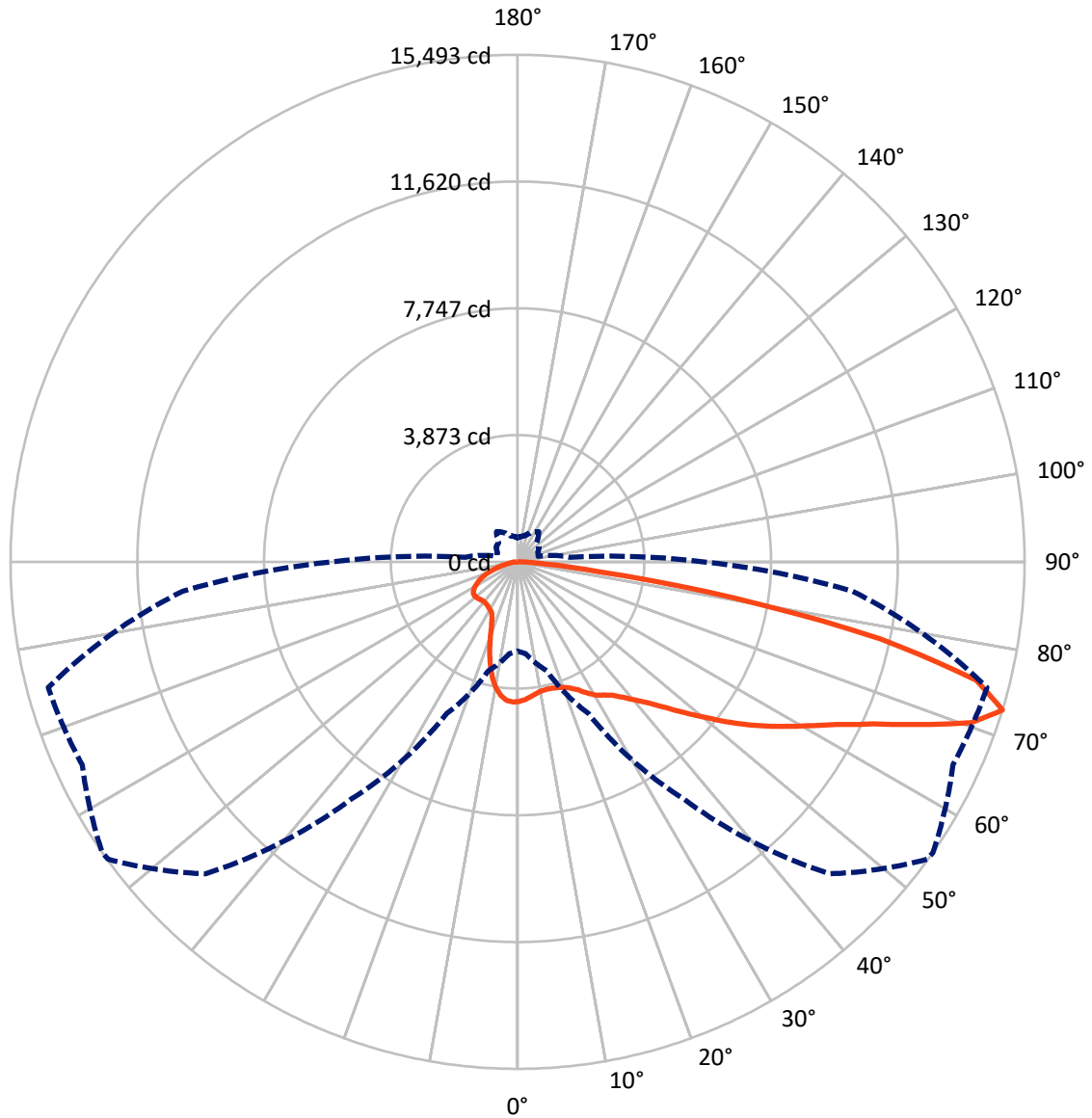
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Medium - N/A

REPORT NUMBER: P317777
CATALOG NUMBER: GAN-SA3D-740-U-T3R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P317777
 CATALOG NUMBER: GAN-SA3D-740-U-T3R

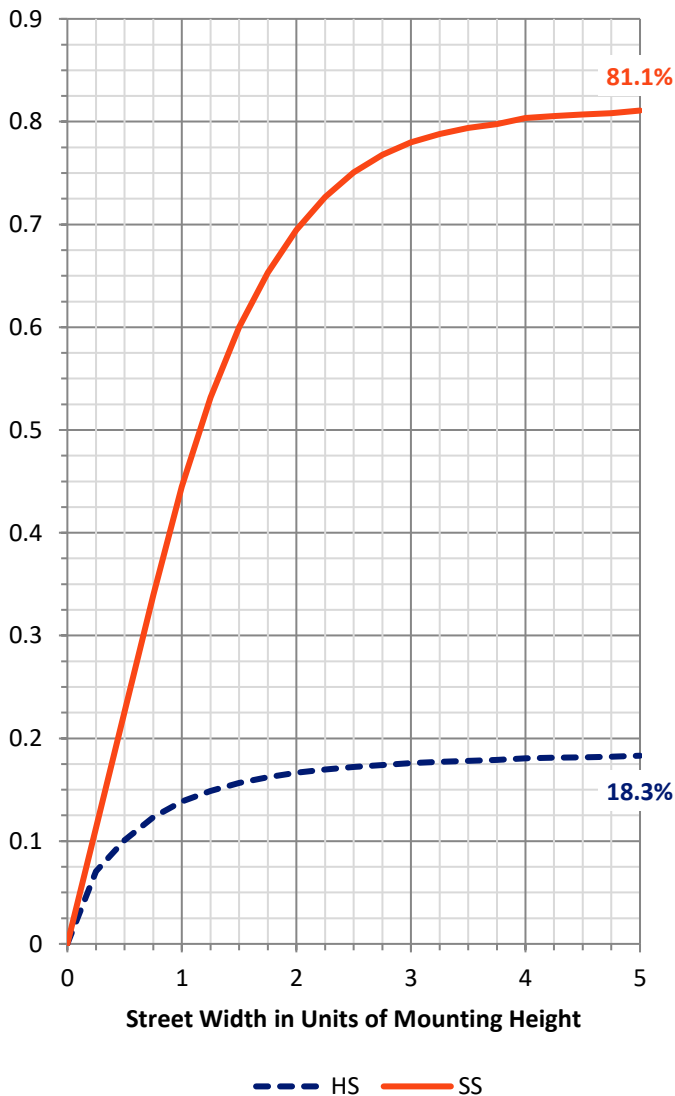
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4501.7	0.0	4501.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	19718.3	0.0	19718.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	24220.0	0.0	24220.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.6	1.6
10°-20°	1029.2	4.2
20°-30°	1696.8	7.0
30°-40°	2510.0	10.4
40°-50°	3503.5	14.5
50°-60°	4561.6	18.8
60°-70°	5606.1	23.1
70°-80°	4394.5	18.1
80°-90°	531.8	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°	24220.0	100.0
0°-180°	24220.0	100.0

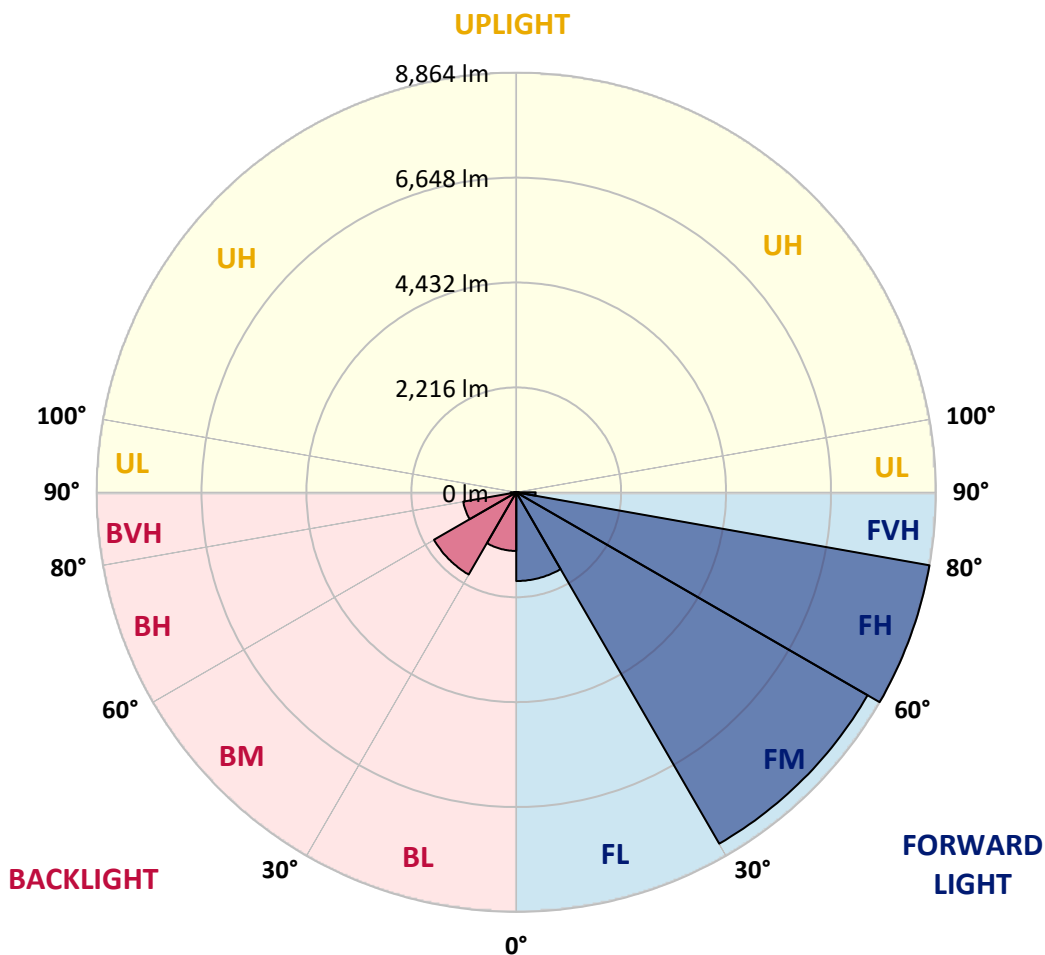


REPORT NUMBER: P317777
 CATALOG NUMBER: GAN-SA3D-740-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1873.9	7.7			
FM (30°-60°)	8569.5	35.4			
FH (60°-80°)	8863.7	36.6			G4/12000
FVH (80°-90°)	411.2	1.7			G3/500
BL (0°-30°)	1238.6	5.1	B3/2500		
BM (30°-60°)	2005.6	8.3	B2/2500		
BH (60°-80°)	1136.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	120.6	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





REPORT NUMBER: P317777

CATALOG NUMBER: GAN-SA3D-740-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4271.9	4271.9	4271.9	4271.9	4271.9	4271.9	4271.9	4271.9	4271.9	4271.9	4271.9
2.5°	4132.8	4123.0	4135.3	4152.5	4171.3	4196.6	4211.4	4217.9	4243.3	4253.1	4274.3
5°	3941.4	3936.5	3956.9	3986.4	4028.1	4087.0	4134.5	4143.5	4210.5	4258.0	4301.3
7.5°	3802.3	3802.3	3826.0	3861.2	3907.9	3987.2	4054.3	4066.6	4180.3	4282.5	4362.7
10°	3691.9	3696.0	3723.8	3765.5	3820.3	3904.6	3993.7	4007.7	4172.1	4339.8	4467.4
12.5°	3618.3	3628.1	3653.4	3691.1	3759.0	3861.2	3974.1	3992.9	4189.3	4421.6	4593.4
15°	3664.9	3681.3	3683.7	3699.2	3736.9	3848.1	3985.6	4005.2	4226.1	4505.0	4736.5
17.5°	3869.4	3875.1	3849.8	3817.0	3799.1	3870.2	4019.9	4040.4	4270.3	4587.7	4874.0
20°	4180.3	4177.0	4122.2	4033.8	3942.2	3953.7	4076.4	4097.6	4330.0	4660.5	5011.4
22.5°	4572.9	4561.5	4477.2	4314.4	4158.2	4092.7	4175.4	4193.4	4420.0	4764.4	5158.7
25°	5049.0	5023.7	4912.4	4694.0	4464.1	4295.6	4324.2	4341.4	4550.8	4880.5	5293.6
27.5°	5551.3	5526.0	5384.4	5120.2	4814.3	4551.7	4529.6	4544.3	4699.7	4966.4	5393.4
30°	6076.5	6049.5	5920.3	5624.1	5185.7	4816.7	4721.0	4726.7	4804.4	5013.0	5475.2
32.5°	6604.2	6578.8	6434.0	6090.4	5589.0	5101.4	4859.3	4851.9	4867.4	5061.3	5567.7
35°	7139.2	7149.0	6979.7	6599.3	6035.6	5418.0	5022.9	5007.3	4973.0	5160.3	5698.6
37.5°	7711.8	7705.3	7486.0	7088.5	6502.7	5761.6	5257.6	5255.2	5136.6	5347.6	5903.9
40°	8094.7	8098.8	7965.4	7589.1	6974.7	6142.0	5558.7	5553.0	5397.5	5628.2	6173.0
42.5°	8244.4	8271.4	8305.7	8066.8	7468.8	6582.9	5917.8	5909.6	5761.6	6030.7	6489.6
45°	8255.0	8309.0	8521.7	8491.4	7969.5	7087.6	6376.7	6353.8	6247.5	6565.7	6867.6
47.5°	8163.4	8219.0	8572.4	8744.2	8417.0	7620.2	6913.4	6895.4	6803.8	7234.9	7276.6
50°	7963.0	8016.1	8467.7	8867.7	8785.1	8132.3	7531.8	7484.4	7435.3	8007.9	7744.5
52.5°	7587.5	7689.7	8327.8	8897.2	9005.2	8587.1	8182.2	8151.1	8178.1	8823.5	8213.3
55°	6698.2	6812.8	7967.0	8872.6	9168.0	8969.2	8832.5	8830.9	8970.8	9679.2	8716.4
57.5°	6200.0	6281.0	7232.4	8830.9	9361.0	9348.7	9476.4	9491.9	9764.3	10611.0	9243.2
60°	5918.6	6003.7	6860.2	8676.3	9660.4	9839.6	10133.3	10164.3	10570.9	11642.6	9877.2
62.5°	5662.6	5755.8	6629.5	8361.3	10013.0	10541.5	10920.2	10948.0	11425.0	12702.8	10489.9
65°	5224.9	5330.5	6291.7	8154.4	10333.7	11456.9	11920.7	11939.5	12405.8	13813.7	10958.7
67.5°	4606.5	4703.0	5654.4	7697.1	10570.9	12568.6	13250.9	13261.5	13378.5	14598.2	11198.4
70°	3884.1	3920.9	4746.4	6753.0	10290.3	13608.4	14708.6	14711.1	14265.3	15100.5	11159.1
72.5°	2729.0	2815.7	3445.7	5112.0	8843.2	13481.6	15465.3	15493.2	14677.6	14846.9	10267.4
75°	1673.7	1765.4	2161.3	3098.0	5610.2	10602.8	14289.0	14482.0	13904.5	13237.8	8387.5
77.5°	1119.1	1153.5	1410.3	1806.3	2541.7	6100.2	10985.7	11348.9	11550.9	9653.9	5364.0
80°	624.2	689.6	935.0	1122.4	1130.6	2423.9	6587.0	6672.1	6426.6	3844.0	1654.9
82.5°	330.5	366.5	624.2	659.4	616.8	811.5	2455.0	2457.4	2053.3	1030.8	491.7
85°	256.1	286.3	427.8	402.5	315.0	359.9	809.9	854.1	698.6	422.1	160.3
87.5°	127.6	158.7	290.4	255.2	123.5	103.1	289.6	309.2	275.7	165.2	58.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P317777
 CATALOG NUMBER: GAN-SA3D-740-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4271.9	4271.9	4271.9	4271.9	4271.9	4271.9	4271.9	4271.9	4271.9	4271.9	4271.9
2.5°	4282.5	4289.9	4298.9	4289.1	4285.8	4272.7	4250.6	4245.7	4234.3	4235.1	4241.6
5°	4320.2	4332.4	4327.5	4289.9	4244.9	4181.9	4116.5	4060.8	4024.0	4021.6	4019.1
7.5°	4392.1	4400.3	4361.9	4254.7	4128.7	3983.1	3845.7	3725.4	3652.6	3634.6	3630.5
10°	4505.0	4503.4	4397.9	4181.9	3930.8	3670.6	3449.7	3282.9	3185.5	3156.9	3149.5
12.5°	4631.0	4612.2	4410.1	4049.4	3651.0	3290.2	3010.4	2824.7	2723.3	2690.6	2682.4
15°	4761.1	4714.5	4379.9	3851.4	3307.4	2880.4	2586.7	2414.9	2360.1	2342.1	2338.8
17.5°	4882.2	4792.2	4293.2	3583.1	2915.6	2472.2	2243.1	2174.4	2187.5	2211.2	2212.0
20°	5000.8	4844.5	4154.1	3244.4	2502.4	2135.9	2058.2	2108.9	2171.1	2219.4	2225.9
22.5°	5117.8	4881.3	3974.9	2853.4	2132.7	1947.0	2001.8	2094.2	2165.4	2217.7	2226.7
25°	5215.9	4890.3	3727.9	2436.2	1875.8	1875.8	1974.8	2062.3	2132.7	2184.2	2193.2
27.5°	5251.9	4829.8	3379.4	2050.0	1746.5	1843.1	1937.2	2010.0	2069.7	2124.5	2134.3
30°	5265.8	4717.7	2976.9	1740.0	1693.4	1807.9	1886.4	1948.6	2005.1	2056.6	2065.6
32.5°	5268.3	4582.7	2549.9	1564.1	1656.6	1771.1	1823.4	1878.3	1938.8	1959.2	1962.5
35°	5283.8	4423.2	2099.9	1474.1	1622.2	1736.7	1778.5	1817.7	1719.6	1726.9	1733.5
37.5°	5328.8	4265.3	1723.6	1423.4	1600.1	1718.7	1768.6	1626.3	1549.4	1531.4	1528.9
40°	5413.1	4096.8	1444.7	1382.5	1591.9	1727.7	1705.6	1518.3	1385.8	1286.8	1272.1
42.5°	5530.1	3915.2	1266.4	1355.5	1597.7	1771.1	1618.1	1414.4	1194.4	1130.6	1122.4
45°	5661.8	3724.6	1169.8	1336.7	1617.3	1804.6	1600.1	1276.2	1105.2	1056.9	1052.8
47.5°	5789.4	3491.5	1119.9	1328.5	1644.3	1777.6	1524.0	1233.6	1062.7	1037.3	1039.7
50°	5935.8	3281.2	1089.7	1319.5	1668.0	1760.5	1438.1	1211.5	1046.3	1077.4	1110.1
52.5°	6059.3	3063.6	1062.7	1301.5	1677.0	1730.2	1416.1	1215.6	1046.3	1106.0	1137.1
55°	6205.8	2899.2	1031.6	1263.9	1659.8	1644.3	1400.5	1240.2	1058.6	1020.9	1024.2
57.5°	6394.7	2845.2	997.2	1205.0	1602.6	1519.1	1393.1	1263.9	1051.2	1027.5	1035.7
60°	6656.5	2902.5	983.3	1128.1	1513.4	1421.0	1394.0	1251.6	999.7	958.8	959.6
62.5°	6906.0	2966.3	982.5	1079.8	1403.8	1333.4	1375.2	1211.5	973.5	949.8	958.8
65°	6987.8	2901.6	943.2	1025.8	1280.3	1228.7	1340.8	1169.0	953.9	917.9	916.2
67.5°	6878.2	2701.2	863.9	938.3	1138.7	1106.8	1295.8	1118.3	922.8	893.3	888.4
70°	6552.6	2253.7	765.7	823.0	977.6	969.4	1224.6	1059.4	881.0	855.7	834.4
72.5°	5676.5	1605.8	645.4	684.7	796.0	822.1	1126.5	982.5	822.1	767.3	734.6
75°	4662.1	1188.6	530.1	538.3	604.5	675.7	991.5	892.5	752.6	659.4	634.0
77.5°	2855.0	727.3	422.1	425.4	433.6	539.1	816.4	791.9	664.3	549.7	531.7
80°	924.4	396.8	305.1	320.7	296.1	395.1	631.5	674.1	570.2	459.7	440.1
82.5°	351.8	231.5	206.2	216.8	205.3	265.1	460.6	539.9	467.1	377.9	307.6
85°	170.2	130.9	121.9	136.6	126.8	135.8	294.5	397.6	354.2	246.2	229.1
87.5°	60.5	58.1	46.6	63.0	54.0	48.3	90.0	200.4	234.0	169.3	151.3
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)