

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: P320959

Luminaire Tested: **GAN-SA5B-740-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29302 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

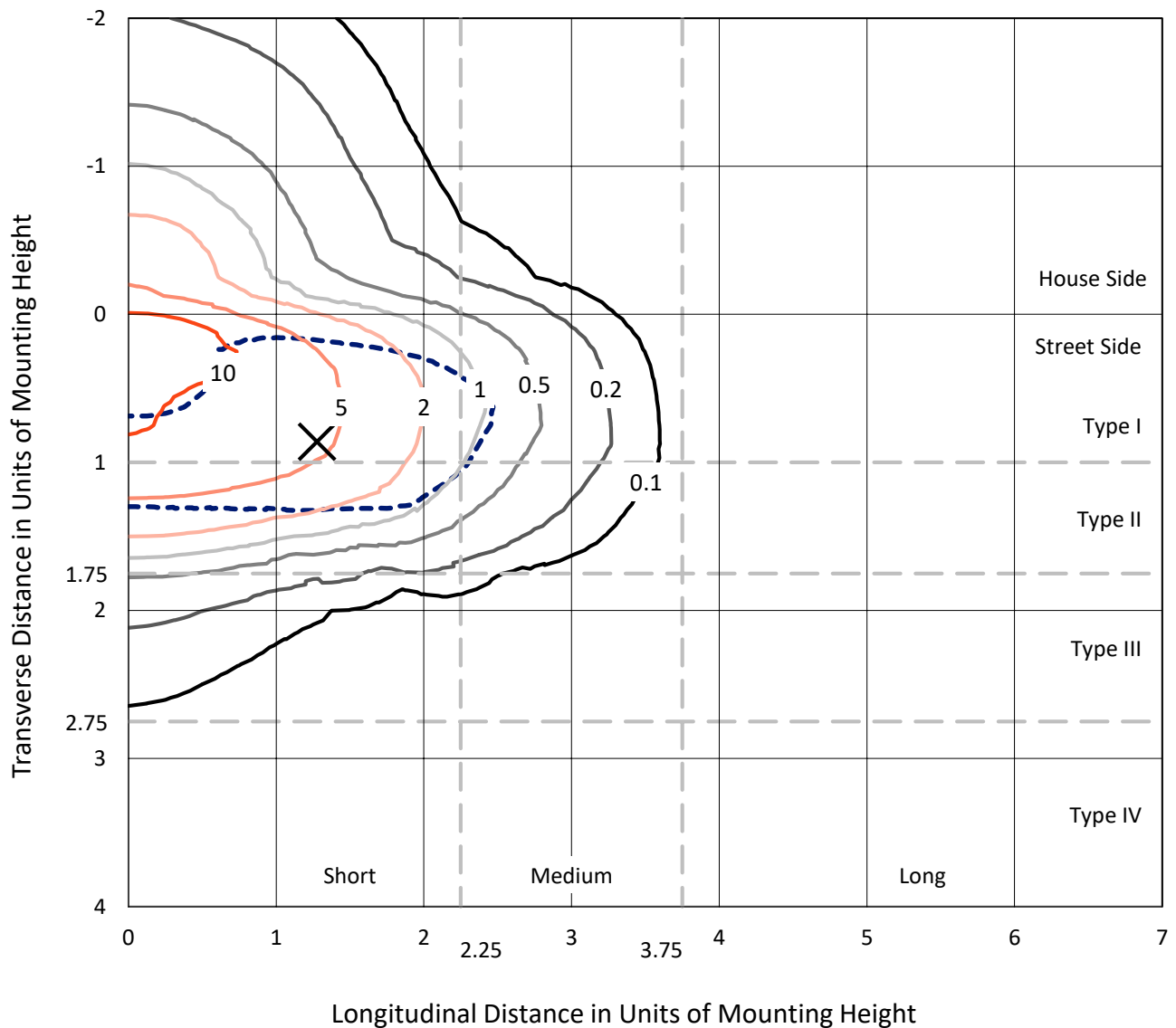
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320959
 CATALOG NUMBER: GAN-SA5B-740-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

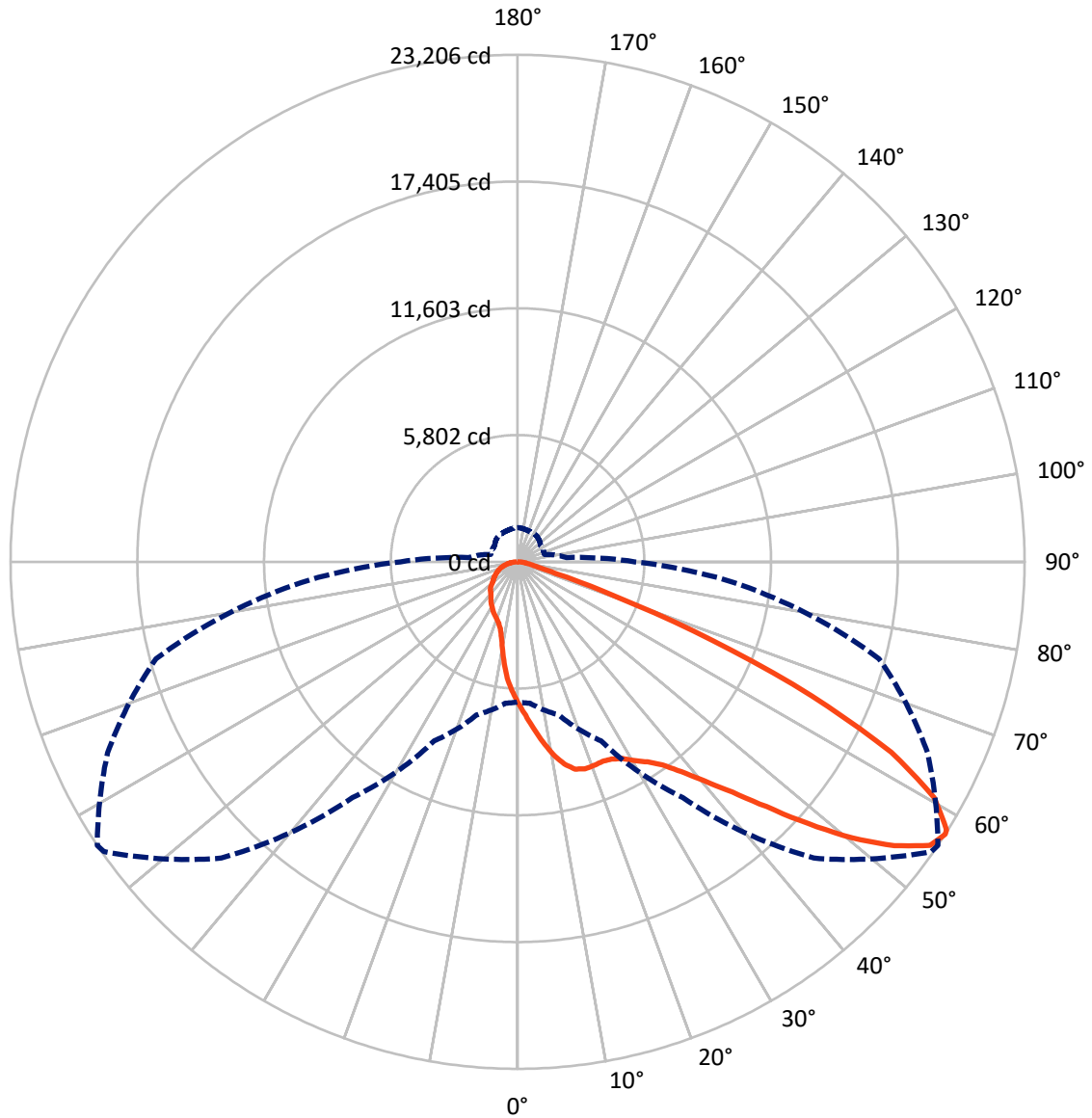
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Short - N/A

REPORT NUMBER: P320959
CATALOG NUMBER: GAN-SA5B-740-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P320959

CATALOG NUMBER: GAN-SA5B-740-U-AFL

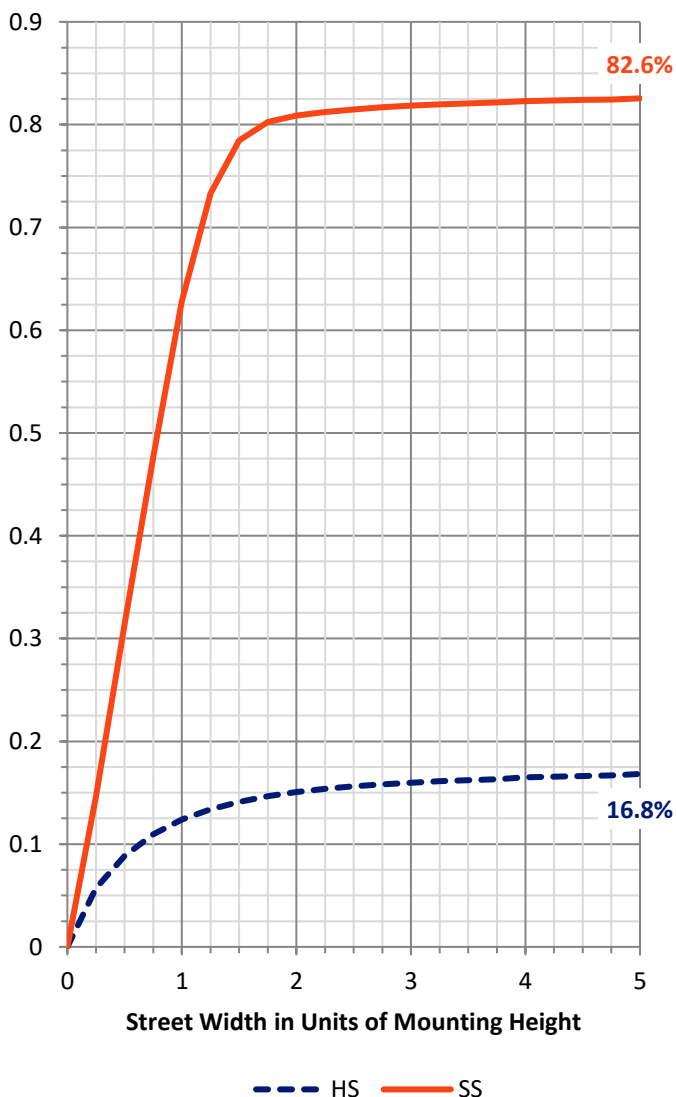
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5051.0	0.0	5051.0
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	24251.0	0.0	24251.0
	% Fixture	82.8	0.0	82.8
Total	Lumens	29302.0	0.0	29302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.8	2.1
10°-20°	1755.2	6.0
20°-30°	2859.0	9.8
30°-40°	4273.8	14.6
40°-50°	6482.5	22.1
50°-60°	7265.7	24.8
60°-70°	4291.4	14.6
70°-80°	1406.0	4.8
80°-90°	347.4	1.2
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°	29302.0	100.0
0°-180°	29302.0	100.0

Coefficient of Utilization

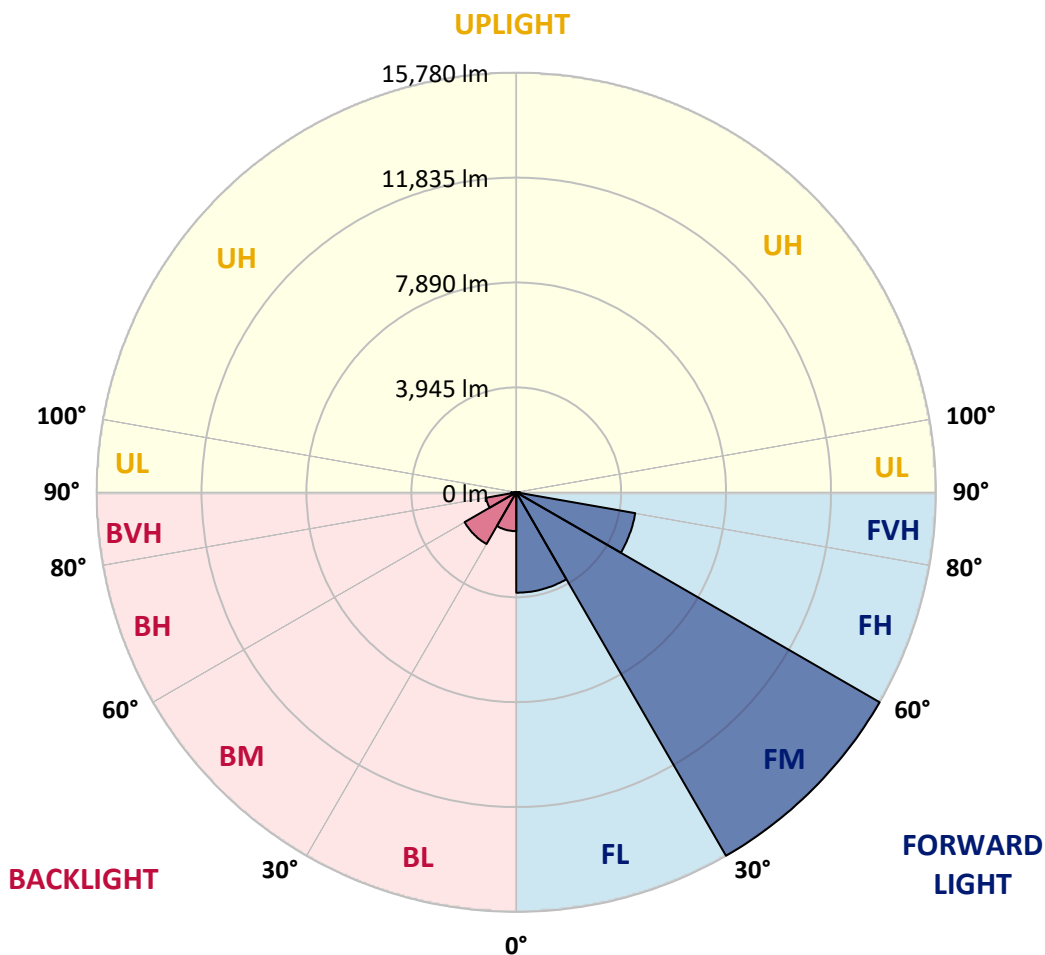


REPORT NUMBER: P320959
 CATALOG NUMBER: GAN-SA5B-740-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3774.5	12.9			
FM (30°-60°)	15780.1	53.9			
FH (60°-80°)	4543.4	15.5			G2/5000
FVH (80°-90°)	153.0	0.5			G2/225
BL (0°-30°)	1460.5	5.0	B3/2500		
BM (30°-60°)	2242.0	7.7	B2/2500		
BH (60°-80°)	1154.1	3.9	B3/2500		G3/2500
BVH (80°-90°)	194.4	0.7			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 II Short





REPORT NUMBER: P320959

CATALOG NUMBER: GAN-SA5B-740-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6499.2	6499.2	6499.2	6499.2	6499.2	6499.2	6499.2	6499.2	6499.2	6499.2	6499.2
2.5°	7462.9	7531.4	7501.2	7396.5	7315.9	7202.1	7075.2	7037.0	6903.0	6753.0	6572.7
5°	8644.1	8609.9	8560.5	8397.4	8225.2	8024.8	7706.6	7656.3	7358.2	7018.8	6660.3
7.5°	9316.8	9313.8	9284.6	9188.9	9031.8	8770.0	8386.3	8326.9	7876.8	7331.0	6775.1
10°	9219.1	9212.1	9260.4	9360.1	9407.4	9353.1	9029.8	8970.4	8417.6	7676.4	6908.1
12.5°	8664.3	8668.3	8745.8	8955.3	9240.3	9582.7	9530.3	9501.1	8978.5	8067.1	7069.2
15°	8232.3	8241.3	8302.8	8485.0	8821.4	9442.7	9834.4	9844.5	9521.2	8498.1	7257.5
17.5°	8042.9	8062.1	8090.3	8218.2	8526.3	9163.7	9906.9	9961.3	9996.5	8945.2	7438.7
20°	8103.4	8121.5	8129.6	8211.1	8463.9	8994.6	9856.6	9954.2	10361.1	9366.2	7620.0
22.5°	8374.3	8385.3	8390.4	8411.5	8607.9	9042.9	9823.3	9926.0	10624.9	9743.8	7757.0
25°	8823.4	8815.3	8783.1	8755.9	8887.8	9234.2	9899.9	9997.5	10839.4	10086.2	7846.6
27.5°	9361.1	9351.0	9288.6	9214.1	9289.6	9532.3	10120.4	10197.9	11031.7	10406.4	7891.9
30°	10006.6	9980.4	9862.6	9774.0	9803.2	9979.4	10483.9	10554.4	11328.8	10769.9	7936.2
32.5°	10752.8	10724.6	10554.4	10407.4	10407.4	10554.4	10858.5	10916.9	11580.6	11180.8	8007.7
35°	11687.3	11652.1	11430.5	11183.8	11114.3	11188.8	11369.1	11410.4	12033.7	11698.4	8137.6
37.5°	12789.0	12741.6	12454.6	12124.3	11972.3	11968.3	12098.2	12182.7	12757.7	12378.1	8358.1
40°	13893.6	13860.4	13609.7	13349.9	13051.8	12956.1	13156.5	13182.7	13704.3	13222.0	8640.1
42.5°	14747.6	14741.5	14695.2	14729.5	14424.3	14231.0	14388.1	14409.2	14860.4	14135.3	8940.2
45°	15198.7	15208.8	15433.4	15930.8	16043.6	15902.6	15980.2	15986.2	16181.6	15056.7	9215.1
47.5°	14837.2	14889.6	15457.5	16570.3	17493.7	17961.9	17833.1	17907.6	17462.5	15848.2	9430.6
50°	13428.4	13492.9	14459.6	16285.3	18170.4	19954.8	19887.3	19870.2	18495.7	16428.3	9547.4
52.5°	11683.3	11733.6	12531.2	14804.0	17673.9	21056.5	21675.8	21587.2	19414.0	16862.3	9569.6
55°	9025.8	9104.3	9868.6	11847.4	15666.0	20635.5	22990.9	22911.4	20250.9	17089.9	9543.4
57°	6416.6	6499.2	7258.5	9041.9	13178.7	19178.4	23121.8	23206.4	20703.0	17128.1	9572.6
57.5°	5725.8	5810.4	6562.7	8294.7	12403.3	18651.7	23009.1	23150.0	20784.6	17122.1	9588.7
60°	2883.1	2915.3	3394.6	4630.2	7840.5	15078.9	21537.8	21901.4	20858.1	16826.0	9658.2
62.5°	1792.5	1769.3	1754.2	2132.8	3814.5	9999.6	18501.7	19201.6	19451.3	16109.1	9490.0
65°	1576.0	1532.7	1366.5	1336.3	1684.7	4856.8	13932.9	14804.0	16445.4	14979.2	9089.2
67.5°	1480.3	1438.0	1250.7	1137.9	1138.9	1925.4	8650.2	9631.0	12811.1	13068.9	8143.6
70°	1381.6	1343.3	1168.1	1035.2	969.7	1066.4	3979.7	4723.9	8351.1	10272.5	6806.3
72.5°	1254.7	1228.5	1062.4	925.4	856.0	798.6	1523.6	1799.5	4834.6	6899.0	4726.9
75°	1121.8	1097.6	955.6	824.7	740.1	628.4	858.0	924.4	2456.1	3529.6	2327.2
77.5°	975.8	961.7	849.9	729.1	661.6	520.6	607.2	639.4	1053.3	1513.5	1167.1
80°	776.4	803.6	743.2	649.5	587.1	416.9	430.0	451.1	613.3	739.1	662.6
82.5°	505.5	552.8	582.0	527.7	483.4	328.3	309.2	318.2	399.8	451.1	288.0
85°	210.5	236.6	382.7	345.4	321.2	239.7	207.4	211.5	247.7	256.8	117.8
87.5°	93.7	99.7	168.2	158.1	135.9	82.6	88.6	96.7	131.9	124.9	45.3
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: P320959
 CATALOG NUMBER: GAN-SA5B-740-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6499.2	6499.2	6499.2	6499.2	6499.2	6499.2	6499.2	6499.2	6499.2	6499.2	6499.2
2.5°	6505.3	6420.7	6275.7	6115.5	5984.6	5879.9	5774.2	5701.7	5617.1	5571.8	5548.6
5°	6510.3	6344.1	6039.0	5725.8	5445.9	5190.1	4946.4	4759.1	4583.9	4489.2	4463.0
7.5°	6531.4	6281.7	5788.3	5272.7	4775.2	4321.1	3970.6	3751.1	3593.0	3522.5	3502.4
10°	6548.6	6208.2	5478.1	4714.8	4038.1	3577.9	3306.0	3183.1	3128.8	3119.7	3110.6
12.5°	6588.8	6132.7	5151.8	4132.7	3465.1	3146.9	3052.2	3044.2	3059.3	3081.4	3081.4
15°	6652.3	6058.1	4779.2	3633.3	3100.6	2988.8	3007.9	3052.2	3093.5	3127.8	3132.8
17.5°	6698.6	5966.5	4378.5	3233.5	2906.2	2936.4	3004.9	3067.3	3109.6	3142.9	3145.9
20°	6731.8	5824.5	3950.5	2928.4	2794.4	2888.1	2973.7	3029.1	3058.3	3091.5	3096.5
22.5°	6714.7	5634.2	3570.8	2709.9	2703.8	2817.6	2899.2	2965.6	2943.5	2911.3	2932.4
25°	6632.1	5372.4	3180.1	2546.7	2608.1	2722.9	2823.6	2779.3	2704.8	2690.7	2698.8
27.5°	6485.1	5038.0	2818.6	2395.7	2497.4	2635.3	2629.3	2585.0	2558.8	2540.7	2551.8
30°	6327.0	4675.5	2502.4	2263.7	2374.5	2488.3	2465.1	2464.1	2438.0	2408.8	2422.9
32.5°	6170.9	4311.0	2251.7	2155.0	2281.9	2297.0	2347.3	2362.4	2311.1	2249.6	2245.6
35°	6035.0	3966.6	2061.3	2056.3	2170.1	2172.1	2245.6	2224.5	2096.6	2033.1	2033.1
37.5°	5933.3	3623.2	1916.3	1967.7	2023.1	2075.4	2112.7	2025.1	2003.9	1968.7	1967.7
40°	5889.0	3321.1	1825.7	1900.2	1919.4	1985.8	1890.1	1924.4	1934.5	1916.3	1916.3
42.5°	5842.6	3058.3	1747.2	1848.9	1845.8	1836.8	1788.4	1832.7	1873.0	1874.0	1871.0
45°	5796.3	2831.7	1677.7	1739.1	1781.4	1683.7	1692.8	1740.1	1796.5	1816.6	1816.6
47.5°	5745.0	2652.5	1614.2	1623.3	1688.7	1623.3	1616.2	1652.5	1719.0	1751.2	1758.2
50°	5632.2	2491.3	1541.7	1521.6	1539.7	1561.9	1567.9	1585.0	1658.5	1709.9	1722.0
52.5°	5476.1	2347.3	1449.1	1427.9	1427.9	1511.5	1539.7	1544.7	1607.2	1668.6	1680.7
55°	5346.2	2255.7	1353.4	1349.4	1345.4	1458.1	1506.5	1514.5	1557.8	1606.2	1612.2
57°	5355.3	2248.6	1279.9	1283.9	1282.9	1403.8	1475.3	1492.4	1514.5	1555.8	1562.9
57.5°	5360.3	2253.7	1263.8	1265.8	1264.8	1388.7	1466.2	1485.3	1502.5	1545.8	1552.8
60°	5435.8	2266.8	1198.3	1176.2	1181.2	1308.1	1414.8	1439.0	1450.1	1507.5	1516.5
62.5°	5324.0	2208.4	1146.0	1092.6	1092.6	1223.5	1343.3	1381.6	1398.7	1476.3	1491.4
65°	4999.8	2044.2	1084.5	997.9	1008.0	1138.9	1257.7	1320.2	1346.4	1443.0	1459.2
67.5°	4499.3	1853.9	1019.1	913.4	923.4	1050.3	1169.1	1236.6	1277.9	1406.8	1419.9
70°	3847.8	1621.3	930.5	823.7	835.8	953.6	1064.4	1140.9	1202.4	1372.5	1376.6
72.5°	2836.7	1329.2	806.6	725.0	738.1	840.8	958.7	1047.3	1129.9	1287.0	1284.9
75°	1686.7	1039.2	669.7	625.4	634.4	730.1	863.0	970.8	1094.6	1253.7	1272.9
77.5°	1023.1	782.4	545.8	523.6	534.7	632.4	794.5	909.3	1079.5	1182.2	1176.2
80°	618.3	558.9	436.0	421.9	433.0	540.8	735.1	863.0	943.6	1010.0	1010.0
82.5°	323.2	341.4	320.2	309.2	324.3	439.1	668.7	753.2	833.8	716.0	668.7
85°	131.9	178.2	194.4	193.3	202.4	304.1	577.0	644.5	537.7	510.6	522.6
87.5°	44.3	75.5	94.7	81.6	85.6	191.3	399.8	311.2	369.6	257.8	244.7
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)