

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: P320918

Luminaire Tested: **GAN-SA4B-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320918
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-SA4B-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21537 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

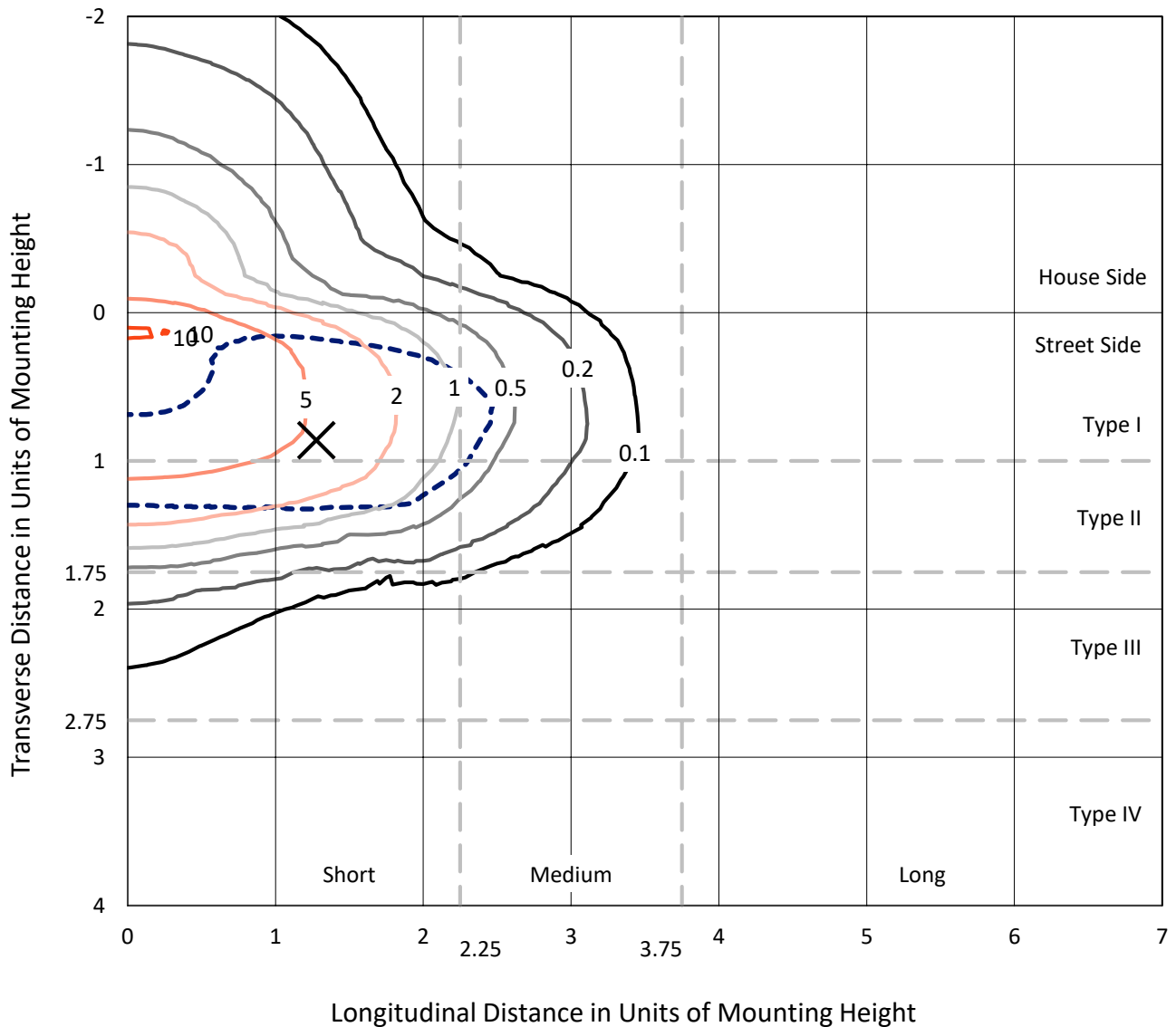
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320918
 CATALOG NUMBER: GAN-SA4B-730-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

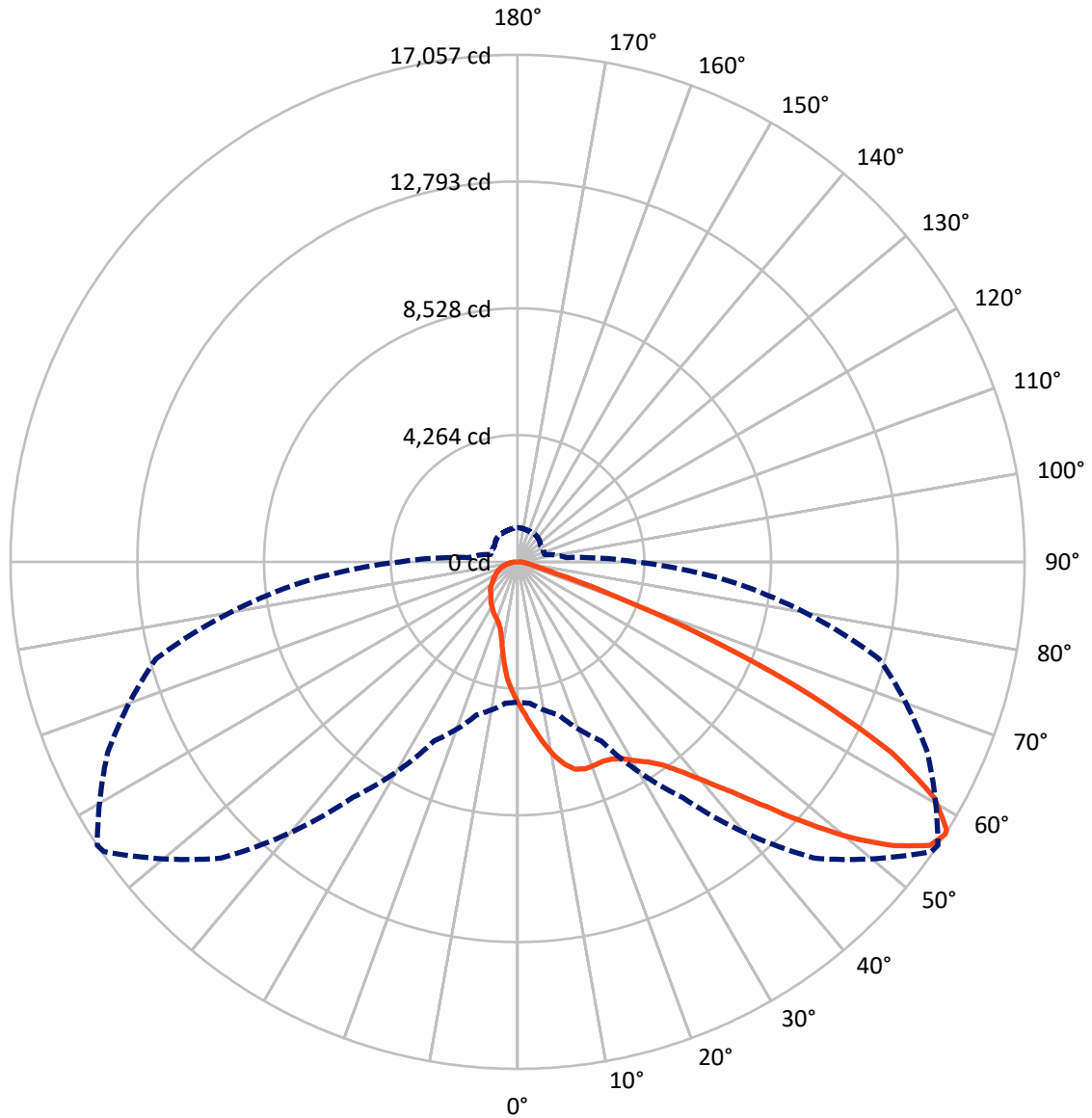
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

REPORT NUMBER: P320918
CATALOG NUMBER: GAN-SA4B-730-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P320918
 CATALOG NUMBER: GAN-SA4B-730-U-AFL

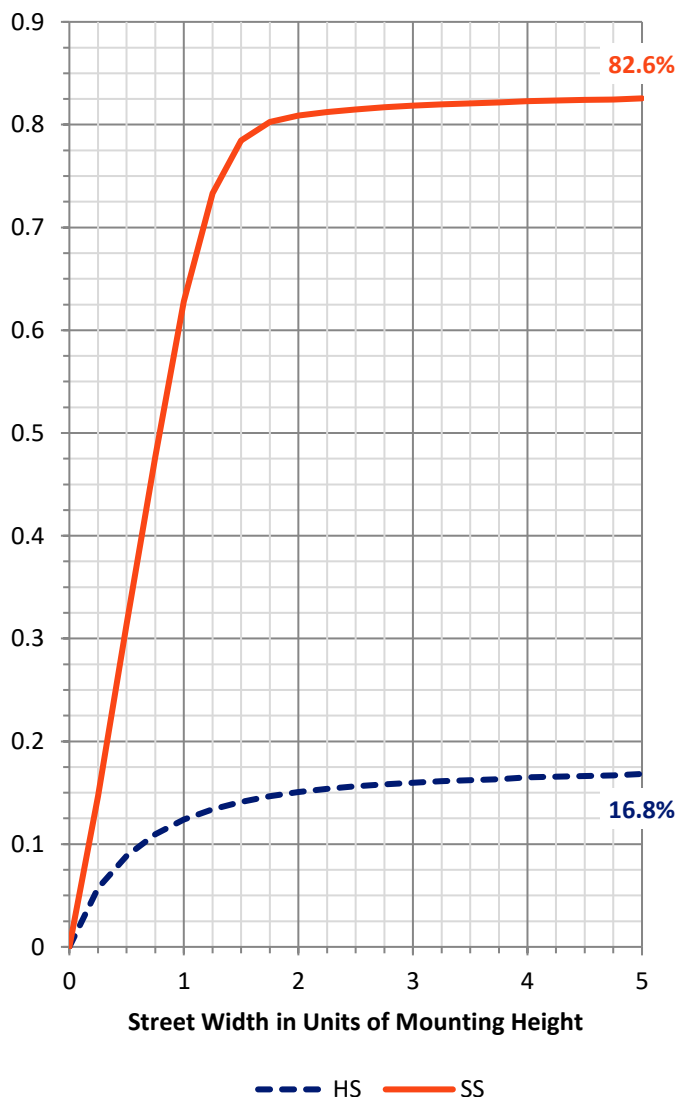
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3712.5	0.0	3712.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	17824.5	0.0	17824.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	21537.0	0.0	21537.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.3	2.1
10°-20°	1290.1	6.0
20°-30°	2101.3	9.8
30°-40°	3141.3	14.6
40°-50°	4764.6	22.1
50°-60°	5340.3	24.8
60°-70°	3154.2	14.6
70°-80°	1033.4	4.8
80°-90°	255.3	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°	21537.0	100.0
0°-180°	21537.0	100.0

Coefficient of Utilization

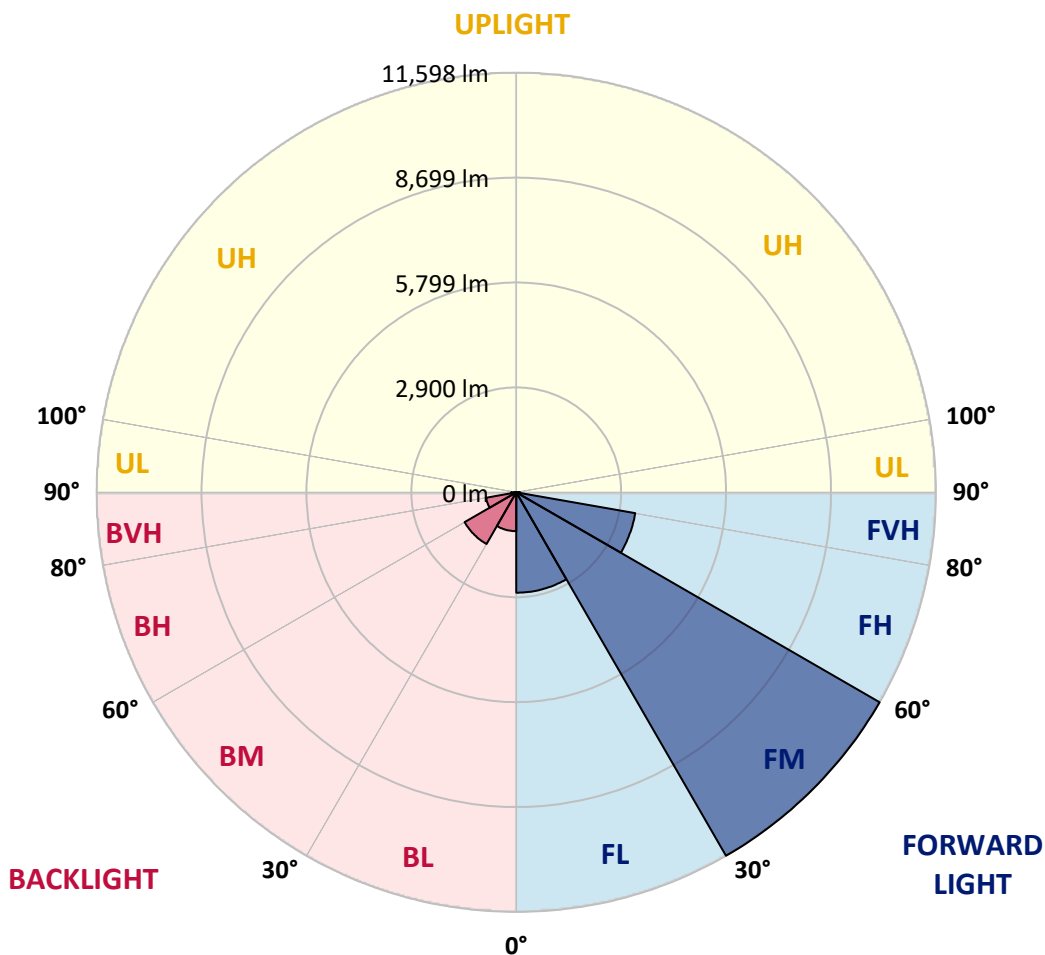


REPORT NUMBER: P320918
 CATALOG NUMBER: GAN-SA4B-730-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2774.3	12.9			
FM (30°-60°)	11598.4	53.9			
FH (60°-80°)	3339.4	15.5			G2/5000
FVH (80°-90°)	112.4	0.5			G2/225
BL (0°-30°)	1073.5	5.0	B3/2500		
BM (30°-60°)	1647.9	7.7	B2/2500		
BH (60°-80°)	848.3	3.9	B2/1000		G2/1000
BVH (80°-90°)	142.9	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-G2
 Type II Short





REPORT NUMBER: P320918
 CATALOG NUMBER: GAN-SA4B-730-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9
2.5°	5485.2	5535.6	5513.4	5436.4	5377.2	5293.6	5200.3	5172.2	5073.7	4963.4	4831.0
5°	6353.4	6328.3	6292.0	6172.1	6045.5	5898.3	5664.4	5627.4	5408.3	5158.8	4895.4
7.5°	6847.9	6845.6	6824.2	6753.9	6638.4	6446.0	6164.0	6120.3	5789.5	5388.3	4979.7
10°	6776.1	6770.9	6806.4	6879.7	6914.5	6874.5	6636.9	6593.3	6186.9	5642.2	5077.4
12.5°	6368.2	6371.2	6428.2	6582.2	6791.6	7043.3	7004.8	6983.3	6599.2	5929.3	5195.9
15°	6050.7	6057.4	6102.5	6236.5	6483.7	6940.4	7228.3	7235.7	6998.1	6246.1	5334.3
17.5°	5911.6	5925.6	5946.4	6040.4	6266.8	6735.4	7281.6	7321.6	7347.5	6574.7	5467.5
20°	5956.0	5969.3	5975.2	6035.2	6221.0	6611.0	7244.6	7316.4	7615.4	6884.1	5600.7
22.5°	6155.1	6163.2	6166.9	6182.5	6326.8	6646.5	7220.2	7295.7	7809.3	7161.7	5701.4
25°	6485.2	6479.3	6455.6	6435.6	6532.6	6787.2	7276.4	7348.2	7967.0	7413.3	5767.2
27.5°	6880.4	6873.0	6827.1	6772.4	6827.9	7006.3	7438.5	7495.5	8108.3	7648.7	5800.6
30°	7354.9	7335.6	7249.0	7183.9	7205.4	7334.9	7705.7	7757.5	8326.7	7915.9	5833.1
32.5°	7903.3	7882.6	7757.5	7649.4	7649.4	7757.5	7981.0	8024.0	8511.7	8217.9	5885.7
35°	8590.2	8564.3	8401.4	8220.1	8169.0	8223.8	8356.3	8386.6	8844.8	8598.3	5981.1
37.5°	9399.9	9365.1	9154.2	8911.4	8799.6	8796.7	8892.2	8954.3	9377.0	9097.9	6143.2
40°	10211.8	10187.4	10003.1	9812.2	9593.1	9522.8	9670.1	9689.3	10072.7	9718.2	6350.5
42.5°	10839.5	10835.1	10801.0	10826.2	10601.9	10459.8	10575.3	10590.8	10922.4	10389.5	6571.0
45°	11171.1	11178.5	11343.5	11709.2	11792.1	11688.4	11745.4	11749.9	11893.5	11066.7	6773.1
47.5°	10905.4	10943.9	11361.3	12179.2	12857.9	13202.1	13107.3	13162.1	12834.9	11648.5	6931.5
50°	9869.9	9917.3	10627.8	11969.7	13355.3	14666.8	14617.2	14604.6	13594.3	12074.8	7017.4
52.5°	8587.2	8624.2	9210.4	10880.9	12990.4	15476.5	15931.7	15866.6	14269.3	12393.8	7033.6
55°	6634.0	6691.7	7253.5	8707.9	11514.5	15167.1	16898.4	16839.9	14884.4	12561.1	7014.4
57°	4716.2	4776.9	5335.0	6645.8	9686.3	14096.2	16994.6	17056.7	15216.7	12589.2	7035.9
57.5°	4208.5	4270.7	4823.6	6096.6	9116.4	13709.1	16911.7	17015.3	15276.7	12584.8	7047.7
60°	2119.0	2142.7	2495.0	3403.2	5762.8	11083.0	15830.3	16097.5	15330.7	12367.2	7098.8
62.5°	1317.5	1300.4	1289.3	1567.6	2803.7	7349.7	13598.8	14113.2	14296.7	11840.2	6975.2
65°	1158.3	1126.5	1004.4	982.2	1238.3	3569.7	10240.7	10880.9	12087.4	11009.7	6680.6
67.5°	1088.0	1056.9	919.3	836.4	837.1	1415.2	6357.9	7078.8	9416.2	9605.7	5985.6
70°	1015.5	987.4	858.6	760.9	712.8	783.8	2925.1	3472.0	6138.1	7550.3	5002.7
72.5°	922.2	903.0	780.9	680.2	629.1	586.9	1119.8	1322.6	3553.5	5070.8	3474.3
75°	824.5	806.8	702.4	606.2	544.0	461.9	630.6	679.5	1805.2	2594.2	1710.5
77.5°	717.2	706.8	624.7	535.9	486.3	382.7	446.3	470.0	774.2	1112.4	857.8
80°	570.7	590.6	546.2	477.4	431.5	306.4	316.0	331.6	450.8	543.3	487.0
82.5°	371.6	406.3	427.8	387.8	355.3	241.3	227.2	233.9	293.8	331.6	211.7
85°	154.7	173.9	281.3	253.9	236.1	176.2	152.5	155.4	182.1	188.7	86.6
87.5°	68.8	73.3	123.6	116.2	99.9	60.7	65.1	71.1	97.0	91.8	33.3
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: P320918
 CATALOG NUMBER: GAN-SA4B-730-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9
2.5°	4781.4	4719.2	4612.6	4494.9	4398.7	4321.7	4244.0	4190.7	4128.6	4095.2	4078.2
5°	4785.1	4662.9	4438.7	4208.5	4002.7	3814.7	3635.6	3497.9	3369.2	3299.6	3280.3
7.5°	4800.6	4617.1	4254.4	3875.4	3509.8	3176.0	2918.4	2757.1	2640.9	2589.0	2574.2
10°	4813.2	4563.0	4026.4	3465.4	2968.0	2629.8	2429.9	2339.6	2299.6	2293.0	2286.3
12.5°	4842.8	4507.5	3786.6	3037.6	2546.9	2313.0	2243.4	2237.5	2248.6	2264.9	2264.9
15°	4889.4	4452.7	3512.8	2670.5	2278.9	2196.8	2210.8	2243.4	2273.7	2298.9	2302.6
17.5°	4923.5	4385.4	3218.2	2376.6	2136.1	2158.3	2208.6	2254.5	2285.6	2310.0	2312.2
20°	4947.9	4281.0	2903.6	2152.4	2053.9	2122.7	2185.7	2226.4	2247.8	2272.3	2276.0
22.5°	4935.3	4141.1	2624.6	1991.7	1987.3	2070.9	2130.9	2179.7	2163.5	2139.8	2155.3
25°	4874.6	3948.7	2337.4	1871.8	1917.0	2001.4	2075.4	2042.8	1988.0	1977.7	1983.6
27.5°	4766.6	3703.0	2071.7	1760.8	1835.6	1937.0	1932.5	1900.0	1880.7	1867.4	1875.5
30°	4650.4	3436.5	1839.3	1663.9	1745.3	1828.9	1811.9	1811.1	1791.9	1770.4	1780.8
32.5°	4535.6	3168.6	1655.0	1583.9	1677.2	1688.3	1725.3	1736.4	1698.6	1653.5	1650.5
35°	4435.7	2915.4	1515.1	1511.4	1595.0	1596.5	1650.5	1635.0	1541.0	1494.4	1494.4
37.5°	4361.0	2663.1	1408.5	1446.3	1487.0	1525.4	1552.8	1488.4	1472.9	1447.0	1446.3
40°	4328.4	2441.0	1341.9	1396.7	1410.7	1459.6	1389.3	1414.4	1421.8	1408.5	1408.5
42.5°	4294.3	2247.8	1284.2	1358.9	1356.7	1350.0	1314.5	1347.1	1376.7	1377.4	1375.2
45°	4260.3	2081.3	1233.1	1278.2	1309.3	1237.5	1244.2	1279.0	1320.4	1335.2	1335.2
47.5°	4222.6	1949.6	1186.5	1193.1	1241.2	1193.1	1187.9	1214.6	1263.4	1287.1	1292.3
50°	4139.7	1831.1	1133.2	1118.4	1131.7	1148.0	1152.4	1165.0	1219.0	1256.8	1265.7
52.5°	4024.9	1725.3	1065.1	1049.5	1049.5	1111.0	1131.7	1135.4	1181.3	1226.4	1235.3
55°	3929.5	1657.9	994.8	991.8	988.8	1071.7	1107.3	1113.2	1145.0	1180.5	1185.0
57°	3936.1	1652.8	940.7	943.7	943.0	1031.8	1084.3	1096.9	1113.2	1143.5	1148.7
57.5°	3939.8	1656.5	928.9	930.4	929.6	1020.7	1077.7	1091.7	1104.3	1136.1	1141.3
60°	3995.3	1666.1	880.8	864.5	868.2	961.5	1039.9	1057.7	1065.8	1108.0	1114.7
62.5°	3913.2	1623.1	842.3	803.1	803.1	899.3	987.4	1015.5	1028.1	1085.1	1096.2
65°	3674.8	1502.5	797.1	733.5	740.9	837.1	924.4	970.3	989.6	1060.6	1072.5
67.5°	3307.0	1362.6	749.0	671.3	678.7	772.0	859.3	908.9	939.2	1034.0	1043.6
70°	2828.1	1191.6	683.9	605.4	614.3	700.9	782.3	838.6	883.7	1008.8	1011.8
72.5°	2085.0	977.0	592.9	532.9	542.5	618.0	704.6	769.8	830.4	945.9	944.4
75°	1239.8	763.8	492.2	459.6	466.3	536.6	634.3	713.5	804.5	921.5	935.5
77.5°	752.0	575.1	401.2	384.9	393.0	464.8	584.0	668.4	793.4	868.9	864.5
80°	454.5	410.8	320.5	310.1	318.3	397.5	540.3	634.3	693.5	742.4	742.4
82.5°	237.6	250.9	235.4	227.2	238.3	322.7	491.5	553.6	612.8	526.2	491.5
85°	97.0	131.0	142.8	142.1	148.8	223.5	424.1	473.7	395.2	375.3	384.1
87.5°	32.6	55.5	69.6	60.0	62.9	140.6	293.8	228.7	271.6	189.5	179.9
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)