

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: P320909

Luminaire Tested: **GAN-SA5A-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320909
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-SA5A-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21760 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

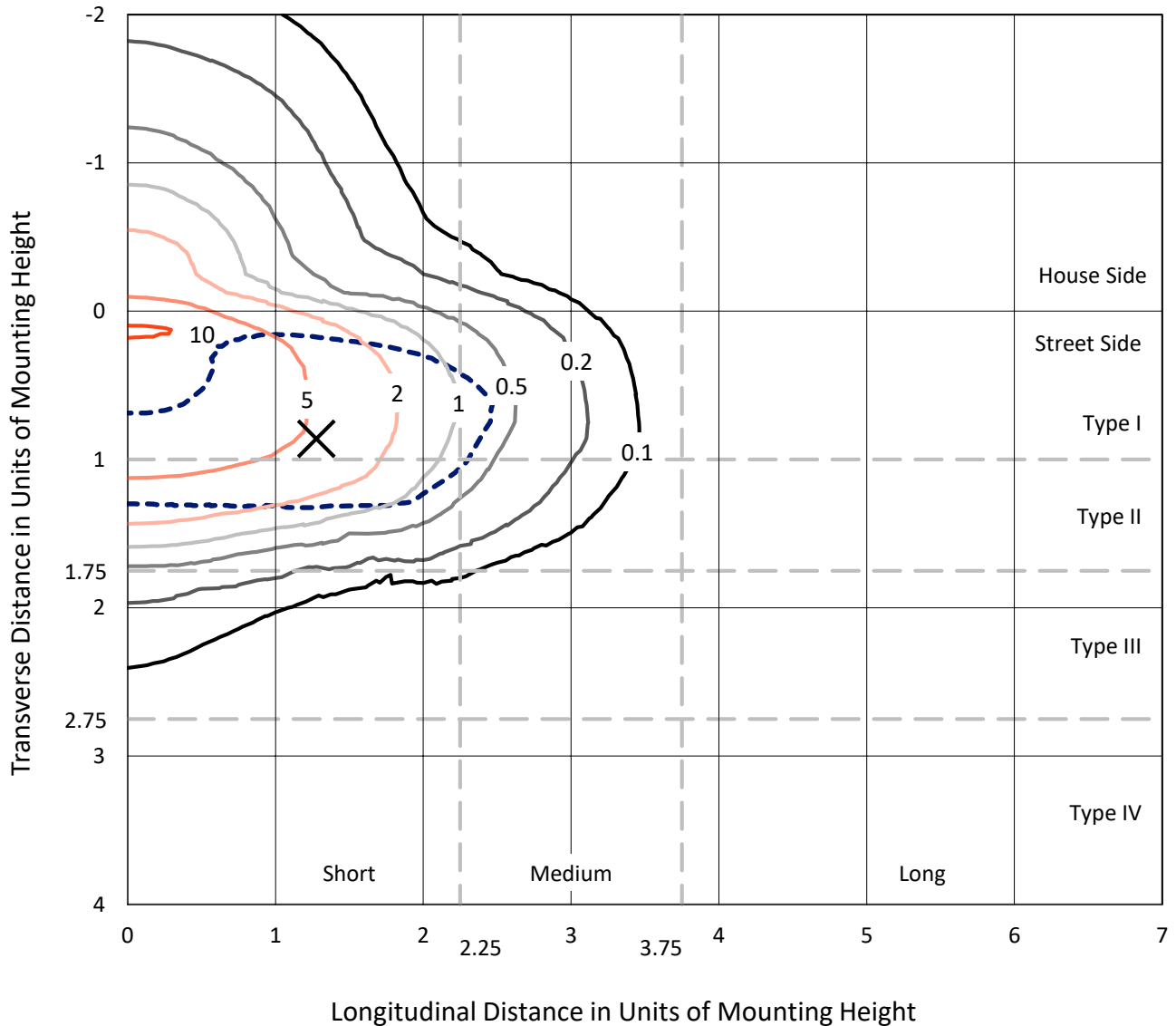
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320909
 CATALOG NUMBER: GAN-SA5A-730-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

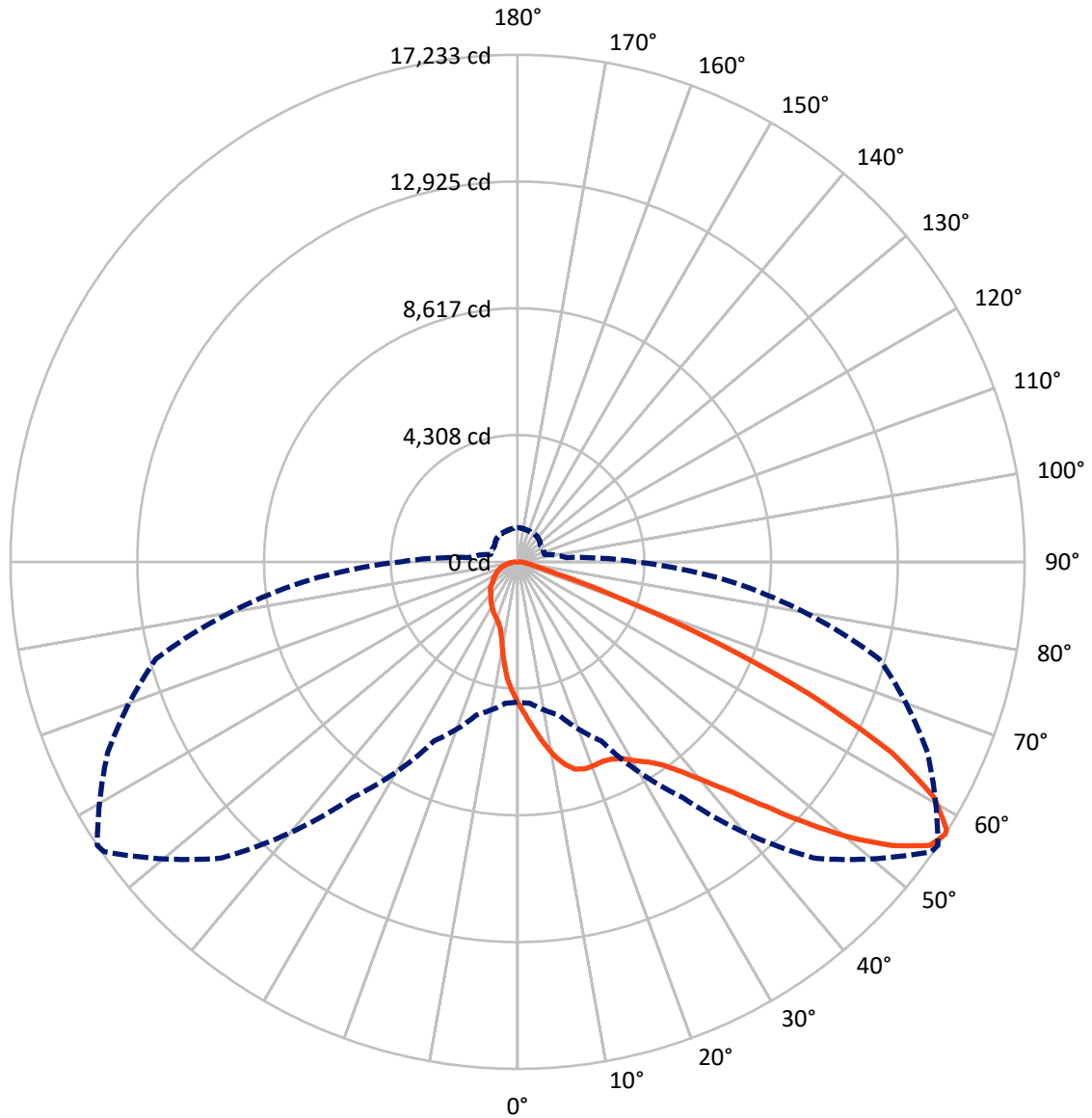
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

REPORT NUMBER: P320909
CATALOG NUMBER: GAN-SA5A-730-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P320909
 CATALOG NUMBER: GAN-SA5A-730-U-AFL

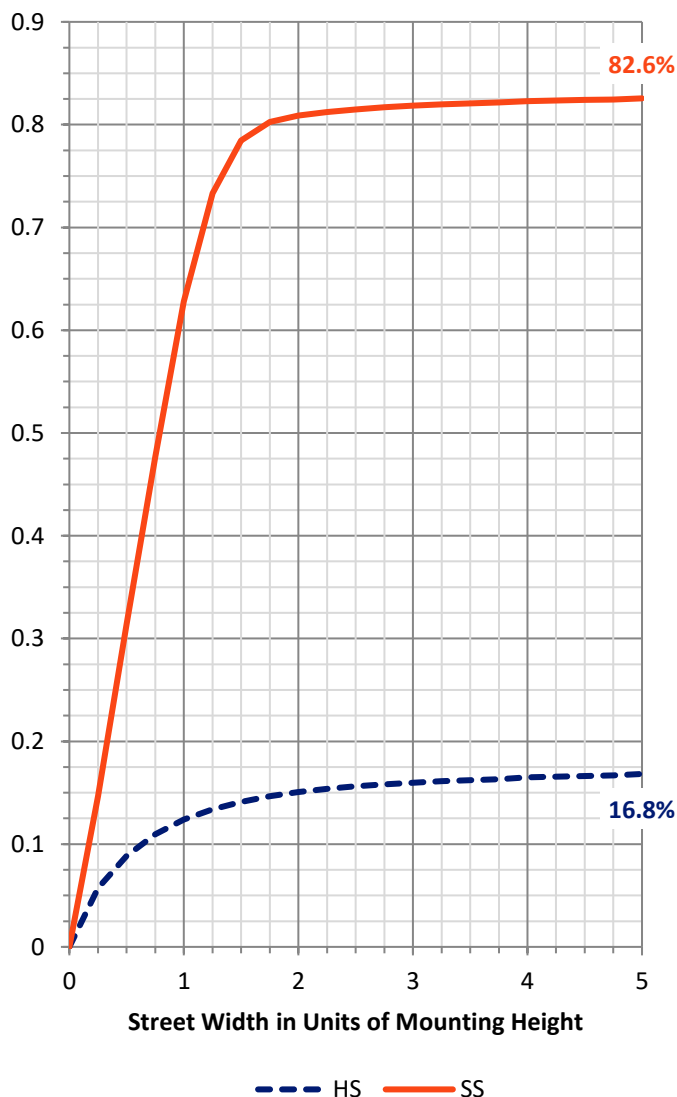
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3751.0	0.0	3751.0
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	18009.0	0.0	18009.0
	% Fixture	82.8	0.0	82.8
Total	Lumens	21760.0	0.0	21760.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.0	2.1
10°-20°	1303.5	6.0
20°-30°	2123.1	9.8
30°-40°	3173.8	14.6
40°-50°	4814.0	22.1
50°-60°	5395.6	24.8
60°-70°	3186.9	14.6
70°-80°	1044.1	4.8
80°-90°	258.0	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°	21760.0	100.0
0°-180°	21760.0	100.0

Coefficient of Utilization

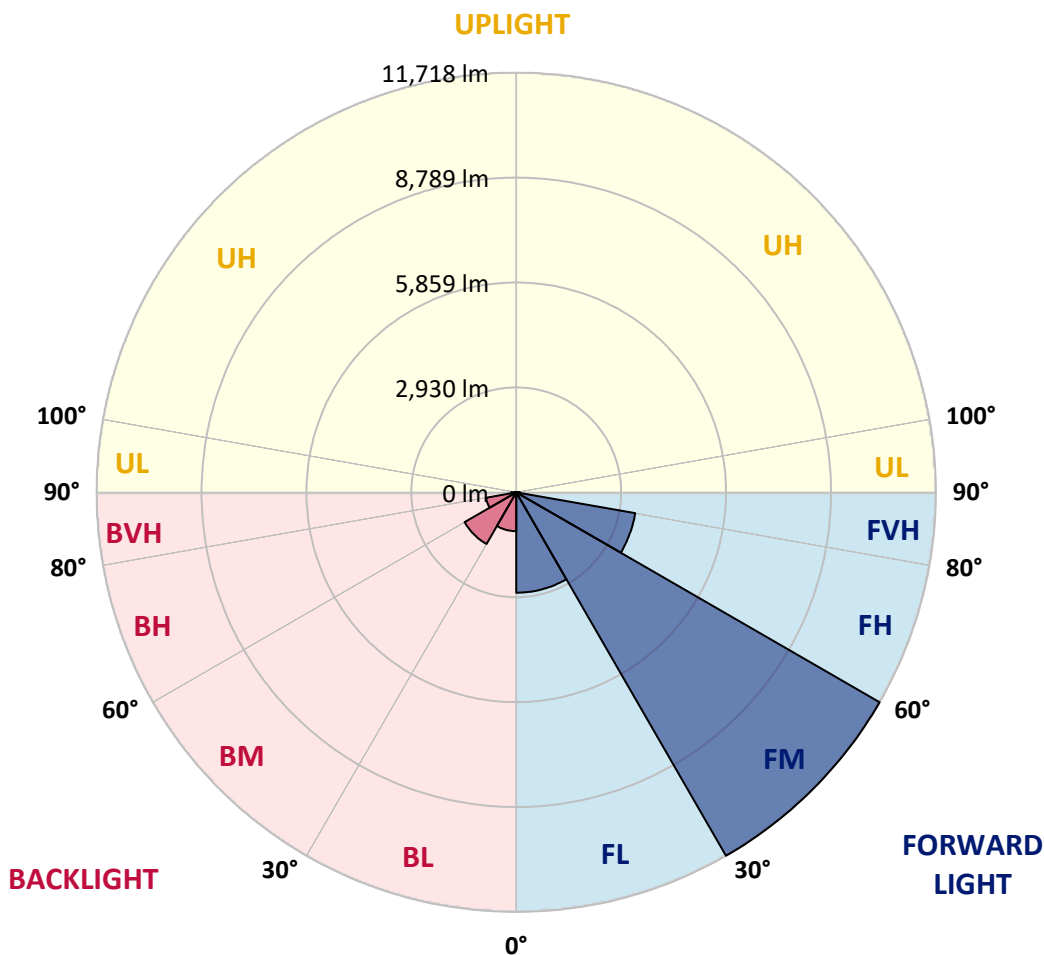


REPORT NUMBER: P320909
 CATALOG NUMBER: GAN-SA5A-730-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2803.0	12.9			
FM (30°-60°)	11718.5	53.9			
FH (60°-80°)	3374.0	15.5			G2/5000
FVH (80°-90°)	113.6	0.5			G2/225
BL (0°-30°)	1084.6	5.0	B3/2500		
BM (30°-60°)	1664.9	7.7	B2/2500		
BH (60°-80°)	857.1	3.9	B2/1000		G2/1000
BVH (80°-90°)	144.4	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-G2
 Type II Short





REPORT NUMBER: P320909

CATALOG NUMBER: GAN-SA5A-730-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4826.4	4826.4	4826.4	4826.4	4826.4	4826.4	4826.4	4826.4	4826.4	4826.4	4826.4
2.5°	5542.0	5592.9	5570.5	5492.7	5432.9	5348.4	5254.1	5225.7	5126.3	5014.8	4881.0
5°	6419.2	6393.8	6357.2	6236.0	6108.1	5959.3	5723.0	5685.6	5464.3	5212.3	4946.0
7.5°	6918.8	6916.5	6894.8	6823.8	6707.1	6512.7	6227.8	6183.7	5849.4	5444.1	5031.3
10°	6846.2	6841.0	6876.9	6950.9	6986.1	6945.7	6705.6	6661.5	6251.0	5700.6	5130.0
12.5°	6434.2	6437.2	6494.8	6650.3	6861.9	7116.2	7077.3	7055.6	6667.5	5990.7	5249.7
15°	6113.4	6120.1	6165.7	6301.1	6550.8	7012.2	7303.1	7310.6	7070.6	6310.8	5389.5
17.5°	5972.8	5987.0	6007.9	6102.9	6331.7	6805.1	7357.0	7397.4	7423.5	6642.8	5524.1
20°	6017.7	6031.1	6037.1	6097.7	6285.4	6679.5	7319.6	7392.1	7694.3	6955.4	5658.7
22.5°	6218.8	6227.0	6230.8	6246.5	6392.3	6715.4	7294.9	7371.2	7890.2	7235.8	5760.4
25°	6552.3	6546.4	6522.4	6502.2	6600.2	6857.4	7351.8	7424.3	8049.5	7490.1	5827.0
27.5°	6951.7	6944.2	6897.8	6842.5	6898.6	7078.8	7515.5	7573.1	8192.3	7727.9	5860.6
30°	7431.0	7411.6	7324.1	7258.3	7280.0	7410.8	7785.5	7837.8	8412.9	7997.9	5893.5
32.5°	7985.2	7964.2	7837.8	7728.7	7728.7	7837.8	8063.7	8107.0	8599.9	8303.0	5946.6
35°	8679.1	8652.9	8488.4	8305.2	8253.6	8309.0	8442.8	8473.5	8936.4	8687.3	6043.1
37.5°	9497.2	9462.1	9249.0	9003.7	8890.8	8887.8	8984.2	9047.0	9474.0	9192.1	6206.9
40°	10317.6	10292.9	10106.7	9913.8	9692.4	9621.4	9770.2	9789.6	10177.0	9818.8	6416.2
42.5°	10951.7	10947.2	10912.8	10938.3	10711.7	10568.1	10684.8	10700.5	11035.5	10497.1	6639.1
45°	11286.7	11294.2	11461.0	11830.4	11914.2	11809.5	11867.1	11871.5	12016.6	11181.3	6843.2
47.5°	11018.3	11057.2	11478.9	12305.3	12991.0	13338.7	13243.0	13298.4	12967.8	11769.1	7003.3
50°	9972.1	10020.0	10737.9	12093.6	13493.5	14818.7	14768.6	14755.9	13735.1	12199.8	7090.0
52.5°	8676.1	8713.5	9305.8	10993.6	13124.9	15636.8	16096.7	16030.9	14417.1	12522.1	7106.5
55°	6702.7	6761.0	7328.6	8798.0	11633.7	15324.2	17073.3	17014.3	15038.5	12691.1	7087.0
57°	4765.1	4826.4	5390.2	6714.6	9786.6	14242.1	17170.5	17233.4	15374.3	12719.6	7108.7
57.5°	4252.1	4314.9	4873.5	6159.7	9210.8	13851.0	17086.8	17191.5	15434.9	12715.1	7120.7
60°	2141.0	2164.9	2520.9	3438.4	5822.5	11197.8	15994.2	16264.2	15489.5	12495.2	7172.3
62.5°	1331.1	1313.9	1302.7	1583.9	2832.7	7425.8	13739.6	14259.3	14444.8	11962.8	7047.4
65°	1170.3	1138.2	1014.8	992.3	1251.1	3606.7	10346.7	10993.6	12212.5	11123.7	6749.8
67.5°	1099.3	1067.9	928.8	845.0	845.8	1429.8	6423.7	7152.1	9513.7	9705.1	6047.6
70°	1026.0	997.6	867.5	768.8	720.1	791.9	2955.4	3508.0	6201.6	7628.4	5054.5
72.5°	931.8	912.3	788.9	687.2	635.6	593.0	1131.4	1336.3	3590.3	5123.3	3510.2
75°	833.1	815.1	709.7	612.5	549.6	466.6	637.1	686.5	1823.9	2621.1	1728.2
77.5°	724.6	714.2	631.2	541.4	491.3	386.6	450.9	474.9	782.2	1124.0	866.7
80°	576.6	596.8	551.9	482.3	436.0	309.6	319.3	335.0	455.4	548.9	492.1
82.5°	375.4	410.5	432.2	391.9	359.0	243.8	229.6	236.3	296.9	335.0	213.9
85°	156.3	175.7	284.2	256.5	238.6	178.0	154.0	157.0	184.0	190.7	87.5
87.5°	69.5	74.0	124.9	117.4	101.0	61.3	65.8	71.8	98.0	92.7	33.7
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: P320909
 CATALOG NUMBER: GAN-SA5A-730-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4826.4	4826.4	4826.4	4826.4	4826.4	4826.4	4826.4	4826.4	4826.4	4826.4	4826.4
2.5°	4830.9	4768.1	4660.4	4541.5	4444.3	4366.5	4288.0	4234.1	4171.3	4137.7	4120.5
5°	4834.6	4711.2	4484.6	4252.1	4044.2	3854.2	3673.3	3534.2	3404.0	3333.8	3314.3
7.5°	4850.3	4664.9	4298.4	3915.6	3546.1	3208.9	2948.6	2785.6	2668.2	2615.9	2600.9
10°	4863.0	4610.3	4068.1	3501.3	2998.7	2657.0	2455.1	2363.8	2323.5	2316.7	2310.0
12.5°	4892.9	4554.2	3825.8	3069.0	2573.2	2336.9	2266.6	2260.6	2271.9	2288.3	2288.3
15°	4940.1	4498.8	3549.1	2698.1	2302.5	2219.5	2233.7	2266.6	2297.3	2322.7	2326.4
17.5°	4974.5	4430.8	3251.5	2401.2	2158.2	2180.6	2231.5	2277.8	2309.2	2333.9	2336.2
20°	4999.1	4325.4	2933.7	2174.6	2075.2	2144.7	2208.3	2249.4	2271.1	2295.8	2299.5
22.5°	4986.4	4184.0	2651.7	2012.4	2007.9	2092.4	2153.0	2202.3	2185.9	2161.9	2177.6
25°	4925.1	3989.6	2361.6	1891.2	1936.8	2022.1	2096.9	2064.0	2008.6	1998.2	2004.1
27.5°	4815.9	3741.3	2093.1	1779.0	1854.6	1957.0	1952.5	1919.6	1900.2	1886.7	1895.0
30°	4698.5	3472.1	1858.3	1681.1	1763.3	1847.8	1830.6	1829.9	1810.5	1788.8	1799.2
32.5°	4582.6	3201.4	1672.1	1600.3	1694.5	1705.8	1743.2	1754.4	1716.2	1670.6	1667.6
35°	4481.6	2945.6	1530.8	1527.0	1611.5	1613.0	1667.6	1651.9	1556.9	1509.8	1509.8
37.5°	4406.1	2690.6	1423.1	1461.2	1502.4	1541.2	1568.9	1503.9	1488.1	1462.0	1461.2
40°	4373.2	2466.3	1355.8	1411.1	1425.3	1474.7	1403.6	1429.1	1436.5	1423.1	1423.1
42.5°	4338.8	2271.1	1297.5	1373.0	1370.7	1364.0	1328.1	1361.0	1390.9	1391.7	1389.4
45°	4304.4	2102.9	1245.9	1291.5	1322.9	1250.3	1257.1	1292.2	1334.1	1349.1	1349.1
47.5°	4266.3	1969.7	1198.7	1205.5	1254.1	1205.5	1200.2	1227.2	1276.5	1300.4	1305.7
50°	4182.5	1850.1	1144.9	1129.9	1143.4	1159.9	1164.3	1177.1	1231.6	1269.8	1278.8
52.5°	4066.6	1743.2	1076.1	1060.4	1060.4	1122.5	1143.4	1147.1	1193.5	1239.1	1248.1
55°	3970.1	1675.1	1005.1	1002.1	999.1	1082.8	1118.7	1124.7	1156.9	1192.8	1197.2
57°	3976.9	1669.9	950.5	953.5	952.7	1042.5	1095.5	1108.3	1124.7	1155.4	1160.6
57.5°	3980.6	1673.6	938.5	940.0	939.3	1031.2	1088.8	1103.0	1115.7	1147.9	1153.1
60°	4036.7	1683.3	889.9	873.4	877.2	971.4	1050.7	1068.6	1076.9	1119.5	1126.2
62.5°	3953.7	1640.0	851.0	811.4	811.4	908.6	997.6	1026.0	1038.7	1096.3	1107.5
65°	3712.9	1518.1	805.4	741.1	748.6	845.8	934.0	980.4	999.8	1071.6	1083.6
67.5°	3341.2	1376.7	756.8	678.3	685.7	780.0	868.2	918.3	949.0	1044.7	1054.4
70°	2857.4	1204.0	691.0	611.7	620.7	708.2	790.4	847.3	892.9	1019.3	1022.3
72.5°	2106.6	987.1	599.0	538.4	548.1	624.4	711.9	777.7	839.0	955.7	954.2
75°	1252.6	771.7	497.3	464.4	471.1	542.2	640.9	720.9	812.9	931.0	945.2
77.5°	759.8	581.1	405.3	388.9	397.1	469.6	590.0	675.3	801.7	877.9	873.4
80°	459.2	415.0	323.8	313.3	321.6	401.6	545.9	640.9	700.7	750.1	750.1
82.5°	240.0	253.5	237.8	229.6	240.8	326.0	496.5	559.4	619.2	531.7	496.5
85°	98.0	132.4	144.3	143.6	150.3	225.8	428.5	478.6	399.3	379.1	388.1
87.5°	32.9	56.1	70.3	60.6	63.6	142.1	296.9	231.1	274.4	191.4	181.7
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)