

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: P318049

Luminaire Tested: **GAN-SA5C-730-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31593 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

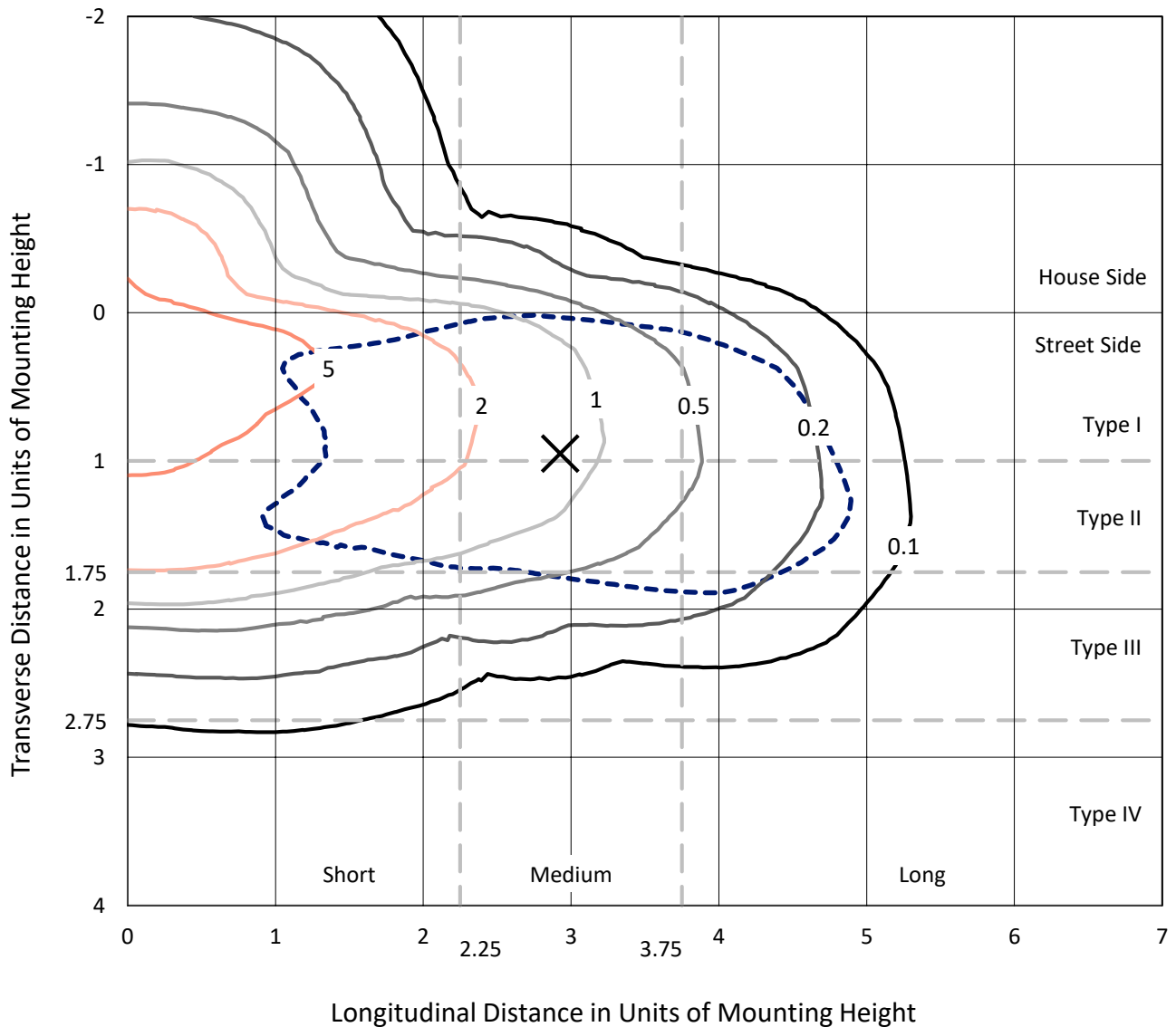
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318049
 CATALOG NUMBER: GAN-SA5C-730-U-T2

Iso-Footcandle Lines of Horizontal Illumination

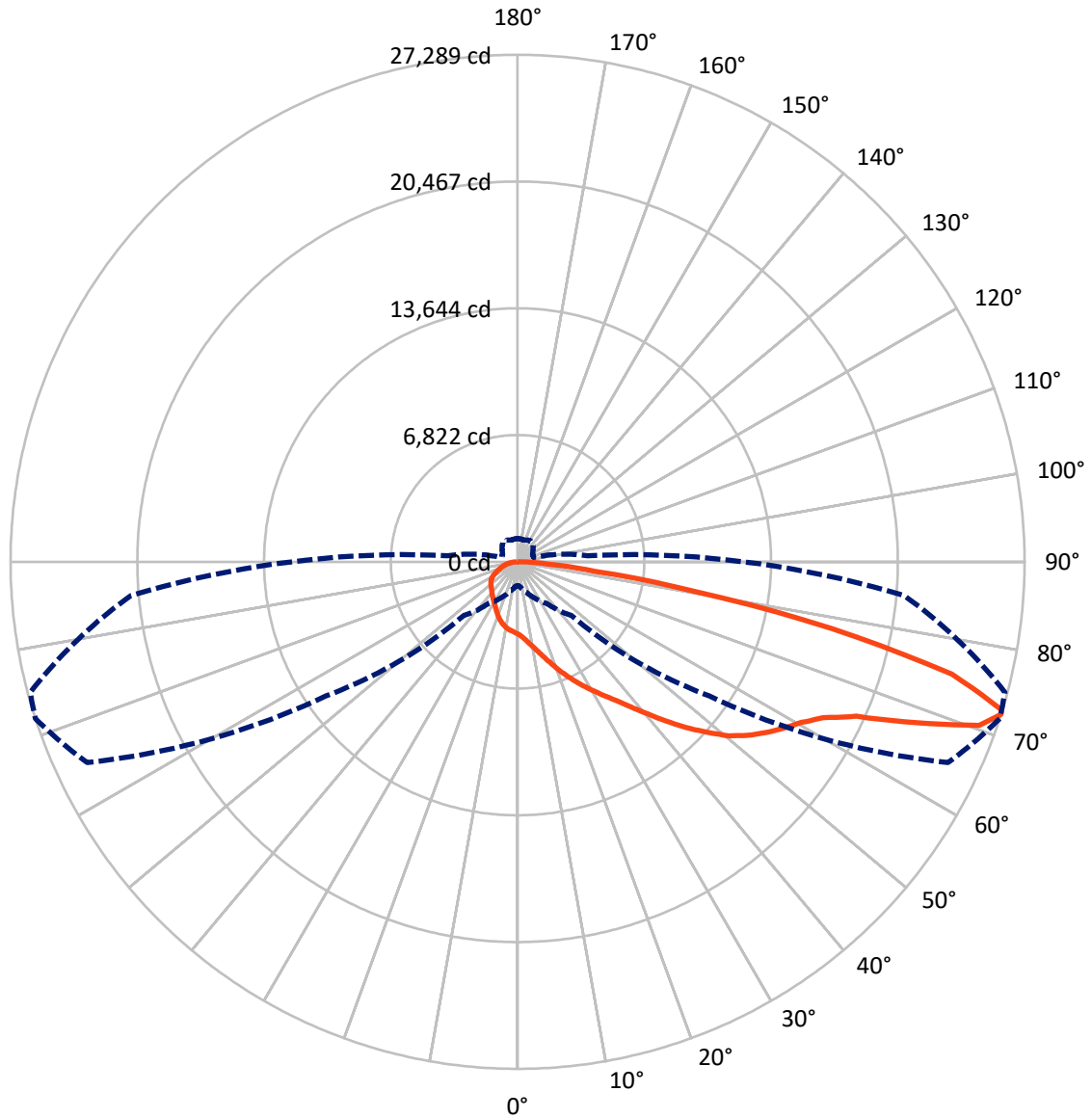
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P318049
CATALOG NUMBER: GAN-SA5C-730-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P318049
 CATALOG NUMBER: GAN-SA5C-730-U-T2

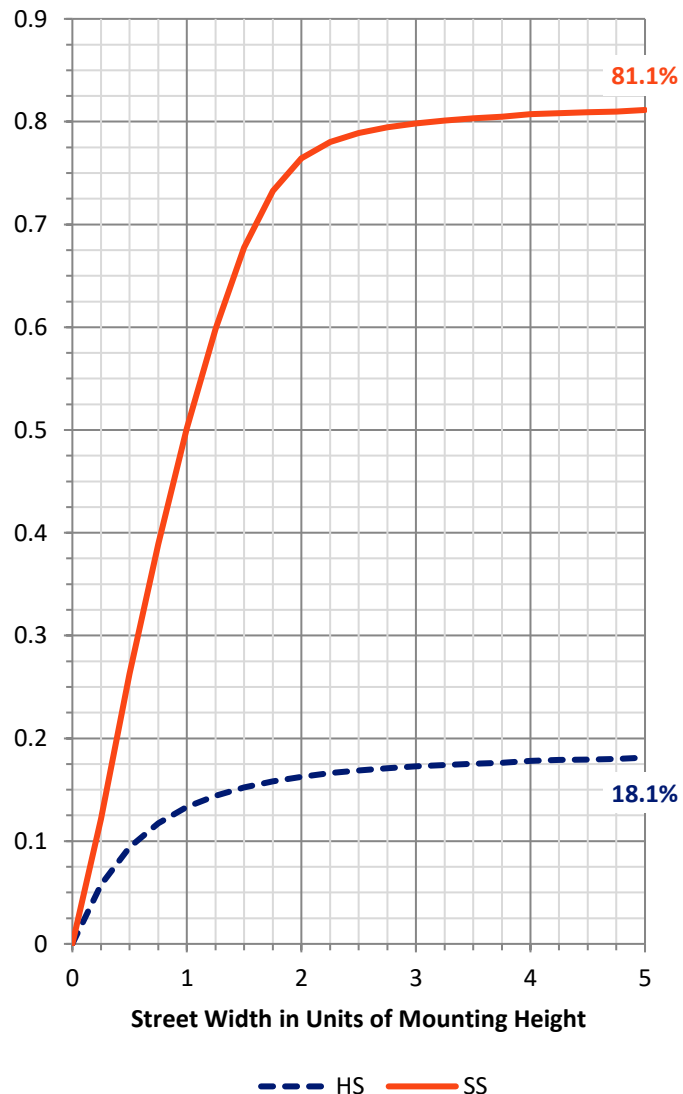
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5860.7	0.0	5860.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	25732.3	0.0	25732.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	31593.0	0.0	31593.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.5	1.2
10°-20°	1258.6	4.0
20°-30°	2205.4	7.0
30°-40°	3269.9	10.4
40°-50°	4782.5	15.1
50°-60°	6580.7	20.8
60°-70°	7326.3	23.2
70°-80°	4964.3	15.7
80°-90°	815.9	2.6
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°	31593.0	100.0
0°-180°	31593.0	100.0

Coefficient of Utilization

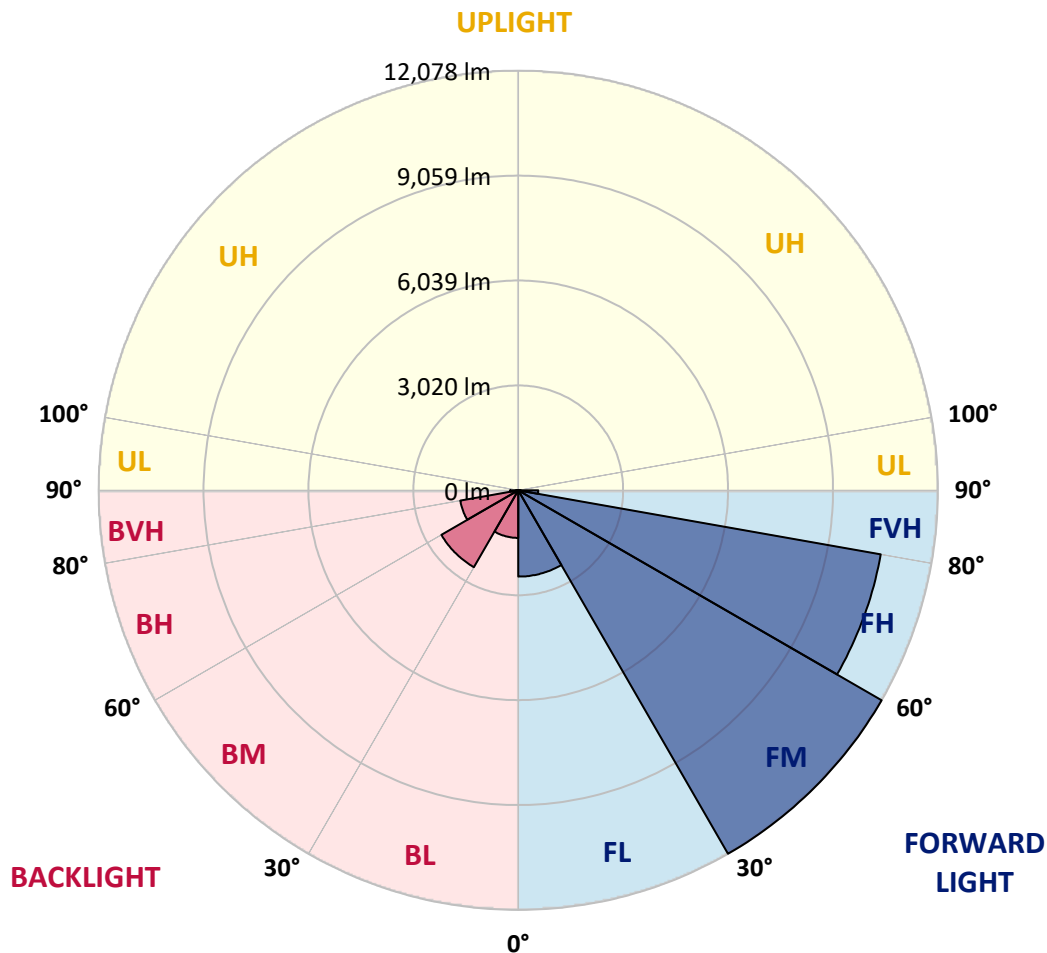


REPORT NUMBER: P318049
 CATALOG NUMBER: GAN-SA5C-730-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2483.4	7.9			
FM (30°-60°)	12078.4	38.2			
FH (60°-80°)	10595.0	33.5			G4/12000
FVH (80°-90°)	575.5	1.8			G4/750
BL (0°-30°)	1370.0	4.3	B3/2500		
BM (30°-60°)	2554.7	8.1	B3/5000		
BH (60°-80°)	1695.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	240.4	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





REPORT NUMBER: P318049

CATALOG NUMBER: GAN-SA5C-730-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3886.8	3886.8	3886.8	3886.8	3886.8	3886.8	3886.8	3886.8	3886.8	3886.8	3886.8
2.5°	4293.6	4287.1	4264.2	4264.2	4220.7	4183.7	4114.1	4067.3	4011.9	3992.3	3927.0
5°	4709.2	4711.3	4683.0	4663.5	4599.3	4521.0	4402.4	4294.7	4187.0	4143.5	4009.7
7.5°	5058.3	5054.0	5046.4	5030.1	4970.2	4889.7	4729.8	4569.9	4411.1	4345.8	4115.2
10°	5282.4	5292.2	5298.7	5306.4	5281.3	5223.7	5072.5	4877.8	4670.0	4580.8	4241.4
12.5°	5395.6	5413.0	5443.4	5495.6	5537.0	5530.5	5420.6	5213.9	4967.0	4854.9	4399.1
15°	5461.9	5484.8	5532.6	5626.2	5742.6	5808.9	5779.6	5592.5	5317.2	5179.1	4591.7
17.5°	5503.3	5521.7	5595.7	5720.8	5893.8	6070.0	6147.2	5990.6	5713.2	5555.5	4812.5
20°	5531.5	5545.7	5638.1	5785.0	6009.1	6289.7	6505.1	6466.0	6149.4	5944.9	5043.1
22.5°	5594.6	5606.6	5694.7	5842.7	6090.7	6452.9	6850.0	6908.7	6609.6	6377.9	5290.0
25°	5770.9	5770.9	5844.8	5948.2	6181.0	6594.3	7141.5	7401.5	7079.5	6809.7	5518.5
27.5°	6107.0	6103.7	6130.9	6166.8	6343.0	6737.9	7401.5	7836.6	7566.8	7272.0	5740.4
30°	6505.1	6526.9	6530.2	6512.7	6595.4	6917.4	7641.9	8295.7	8057.4	7739.8	5967.8
32.5°	7017.5	7031.6	7015.3	6957.7	6945.7	7172.0	7878.0	8776.5	8588.3	8228.2	6175.5
35°	7668.0	7640.8	7589.7	7472.2	7360.2	7512.5	8147.7	9257.3	9184.4	8818.9	6461.6
37.5°	8365.3	8366.4	8303.3	8036.8	7882.3	7947.6	8519.8	9802.3	9905.6	9521.6	6828.2
40°	8924.4	8953.8	8993.0	8642.7	8442.5	8532.8	8993.0	10434.3	10758.5	10354.9	7305.8
42.5°	9315.0	9348.7	9459.6	9239.9	9032.1	9199.7	9549.9	11108.8	11715.8	11316.5	7864.9
45°	9728.3	9746.8	9825.1	9730.5	9597.8	9975.3	10177.6	11807.1	12728.5	12341.3	8490.4
47.5°	10163.5	10183.0	10263.5	10200.4	10130.8	10699.7	10832.5	12465.3	13698.9	13467.2	9158.3
50°	10700.8	10713.9	10790.0	10675.8	10697.6	11245.8	11417.7	13069.0	14716.0	14478.8	9828.4
52.5°	11434.0	11437.3	11542.8	11439.5	11337.2	11646.1	11921.4	13637.9	15513.3	15401.3	10498.5
55°	12008.4	12043.2	12389.1	12367.4	12308.6	12009.5	12342.3	14179.7	16224.8	16278.1	11209.9
57.5°	11641.8	11777.8	12478.3	12972.2	13453.0	12913.5	12911.3	14789.9	16886.2	17138.5	11992.1
60°	10196.1	10381.0	11413.4	12508.8	14013.2	14486.4	14092.6	15535.1	17554.1	17991.4	12972.2
62.5°	7281.8	7586.4	8985.4	10734.6	13245.2	15528.6	16496.7	16717.5	18462.4	18979.1	14246.0
65°	3681.2	3911.8	5084.4	7191.5	10582.3	14847.6	19109.6	19306.5	20040.8	20499.9	16207.4
67.5°	2236.5	2323.6	2895.8	3999.9	6487.7	11565.6	19962.5	23621.9	23095.4	23339.1	19004.1
70°	1648.0	1712.2	2069.0	2656.4	3731.2	6786.9	17345.2	26701.5	26355.6	26328.4	21071.0
72°	1283.6	1330.4	1645.9	2146.3	2728.2	4071.7	12571.9	25564.7	27288.9	27151.9	20881.7
72.5°	1217.3	1258.6	1545.8	2020.1	2578.1	3691.0	11303.5	24797.8	27221.5	27159.5	20636.9
75°	958.4	987.7	1144.4	1562.1	2017.9	2094.0	6194.0	19217.3	24148.4	25152.5	18561.4
77.5°	793.0	797.4	880.0	1136.8	1573.0	1480.5	3042.6	13333.3	17291.9	18396.0	13148.4
80°	646.2	651.6	690.8	797.4	1190.1	1095.4	1444.6	7666.9	9681.6	9693.5	6252.8
82.5°	514.5	515.6	559.1	583.1	855.0	783.2	827.8	3599.6	4230.5	4069.5	2247.4
85°	362.2	354.6	546.1	478.6	559.1	502.6	456.9	1425.0	1749.2	1673.1	703.8
87.5°	120.7	125.1	242.6	310.0	326.3	285.0	203.4	546.1	660.3	654.9	223.0
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: P318049
 CATALOG NUMBER: GAN-SA5C-730-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3886.8	3886.8	3886.8	3886.8	3886.8	3886.8	3886.8	3886.8	3886.8	3886.8	3886.8
2.5°	3906.3	3871.5	3820.4	3763.8	3719.2	3673.6	3639.8	3622.4	3602.8	3586.5	3606.1
5°	3947.7	3882.4	3773.6	3667.0	3588.7	3519.1	3469.0	3442.9	3419.0	3402.7	3404.9
7.5°	4015.1	3909.6	3726.9	3571.3	3462.5	3387.5	3336.3	3318.9	3303.7	3299.3	3304.8
10°	4086.9	3931.4	3664.8	3458.2	3334.2	3272.1	3249.3	3261.3	3272.1	3281.9	3292.8
12.5°	4168.5	3950.9	3574.6	3325.5	3219.9	3196.0	3218.8	3271.1	3309.1	3332.0	3346.1
15°	4275.1	3968.3	3470.1	3192.7	3122.0	3149.2	3226.5	3316.7	3383.1	3425.5	3432.1
17.5°	4373.0	3967.3	3336.3	3058.9	3042.6	3122.0	3238.4	3365.7	3454.9	3514.7	3526.7
20°	4474.2	3937.9	3180.8	2928.4	2962.1	3092.7	3243.9	3397.2	3504.9	3574.6	3590.9
22.5°	4568.8	3886.8	3010.0	2809.8	2894.7	3053.5	3223.2	3378.8	3486.4	3543.0	3560.4
25°	4633.0	3797.6	2837.0	2709.7	2834.8	3005.6	3155.8	3280.9	3361.3	3389.6	3394.0
27.5°	4665.6	3681.2	2673.8	2622.7	2772.8	2927.3	3030.7	3092.7	3115.5	3113.3	3109.0
30°	4670.0	3527.8	2533.5	2552.0	2701.0	2812.0	2861.0	2849.0	2819.6	2769.6	2773.9
32.5°	4655.8	3354.8	2416.0	2484.6	2609.7	2671.7	2673.8	2616.2	2537.9	2458.5	2436.7
35°	4660.2	3185.1	2312.7	2408.4	2498.7	2525.9	2500.9	2416.0	2309.4	2207.2	2185.4
37.5°	4708.1	3037.2	2223.5	2320.3	2375.8	2382.3	2346.4	2257.2	2178.9	2078.8	2070.1
40°	4822.3	2931.7	2138.6	2221.3	2252.9	2256.1	2205.0	2141.9	2148.4	2095.1	2094.0
42.5°	5027.9	2886.0	2063.6	2118.0	2137.6	2144.1	2104.9	2064.7	2121.2	2086.4	2074.5
45°	5293.3	2896.9	2000.5	2016.8	2052.7	2083.2	2059.2	2010.3	2032.0	1880.8	1830.8
47.5°	5600.1	2966.5	1950.5	1929.8	1991.8	2049.4	2012.5	1938.5	1861.3	1711.1	1682.8
50°	5959.1	3074.2	1904.8	1843.8	1925.4	2003.8	1966.8	1861.3	1744.9	1672.0	1662.2
52.5°	6333.3	3205.8	1859.1	1749.2	1841.7	1968.9	1950.5	1843.8	1700.3	1628.5	1615.4
55°	6757.5	3338.5	1801.4	1639.3	1751.4	1952.6	1942.8	1780.8	1666.5	1626.3	1616.5
57.5°	7285.1	3489.7	1725.3	1525.1	1666.5	1893.9	1863.4	1742.7	1631.7	1601.3	1598.0
60°	7972.6	3712.7	1615.4	1403.3	1563.2	1803.6	1797.1	1687.2	1576.2	1554.5	1550.1
62.5°	9003.8	4081.5	1464.2	1281.4	1447.9	1650.2	1710.0	1612.1	1517.5	1516.4	1518.6
65°	10602.9	4636.3	1299.9	1174.8	1331.5	1520.8	1608.9	1534.9	1457.7	1479.4	1482.7
67.5°	12456.6	5096.4	1138.9	1070.4	1212.9	1397.8	1517.5	1457.7	1378.3	1434.8	1435.9
70°	13073.4	4685.2	997.5	967.1	1090.0	1279.3	1418.5	1372.8	1292.3	1348.9	1343.5
72°	12166.1	3782.3	906.1	888.7	997.5	1181.4	1330.4	1293.4	1214.0	1252.1	1237.9
72.5°	11880.0	3606.1	883.3	869.2	972.5	1156.3	1307.6	1273.8	1194.4	1227.1	1214.0
75°	10597.5	3131.8	759.3	762.6	848.5	1034.5	1179.2	1168.3	1086.7	1090.0	1085.6
77.5°	7686.5	2296.4	639.6	661.4	722.3	909.4	1049.7	1043.2	954.0	937.7	934.4
80°	3566.9	1171.6	521.1	530.9	593.9	760.4	895.3	886.6	814.8	794.1	782.1
82.5°	1221.6	557.0	391.6	398.1	460.1	612.4	776.7	771.3	711.4	671.2	646.2
85°	436.2	277.4	274.1	267.6	328.5	481.9	676.6	647.2	559.1	476.5	474.3
87.5°	141.4	118.6	141.4	140.3	191.5	326.3	491.7	418.8	405.8	337.2	330.7
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)