

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: McGRAW-EDISON

Report Number: P457667

Luminaire Tested: **GALN-SA9A-730-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38637 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

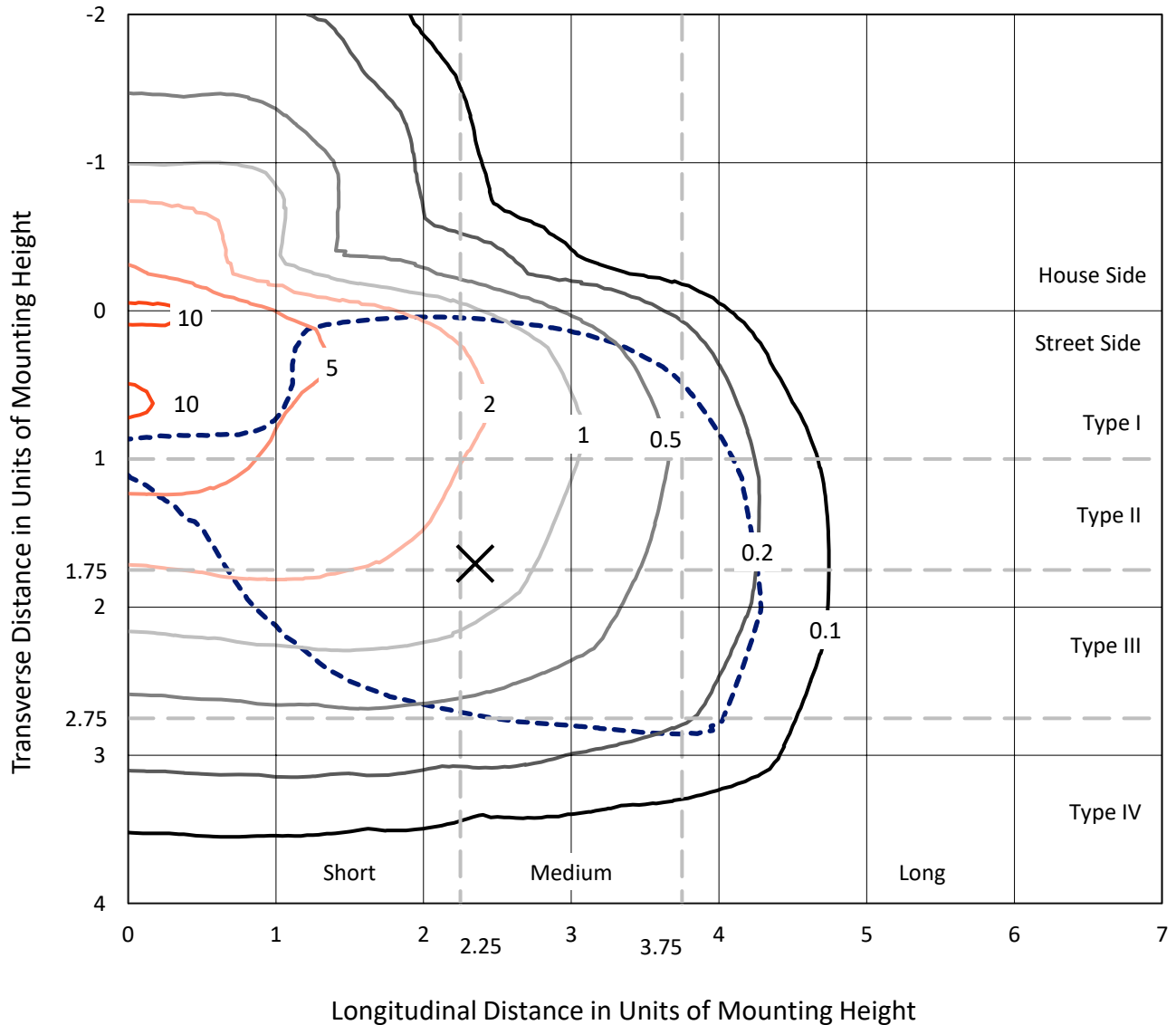
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457667
 CATALOG NUMBER: GALN-SA9A-730-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

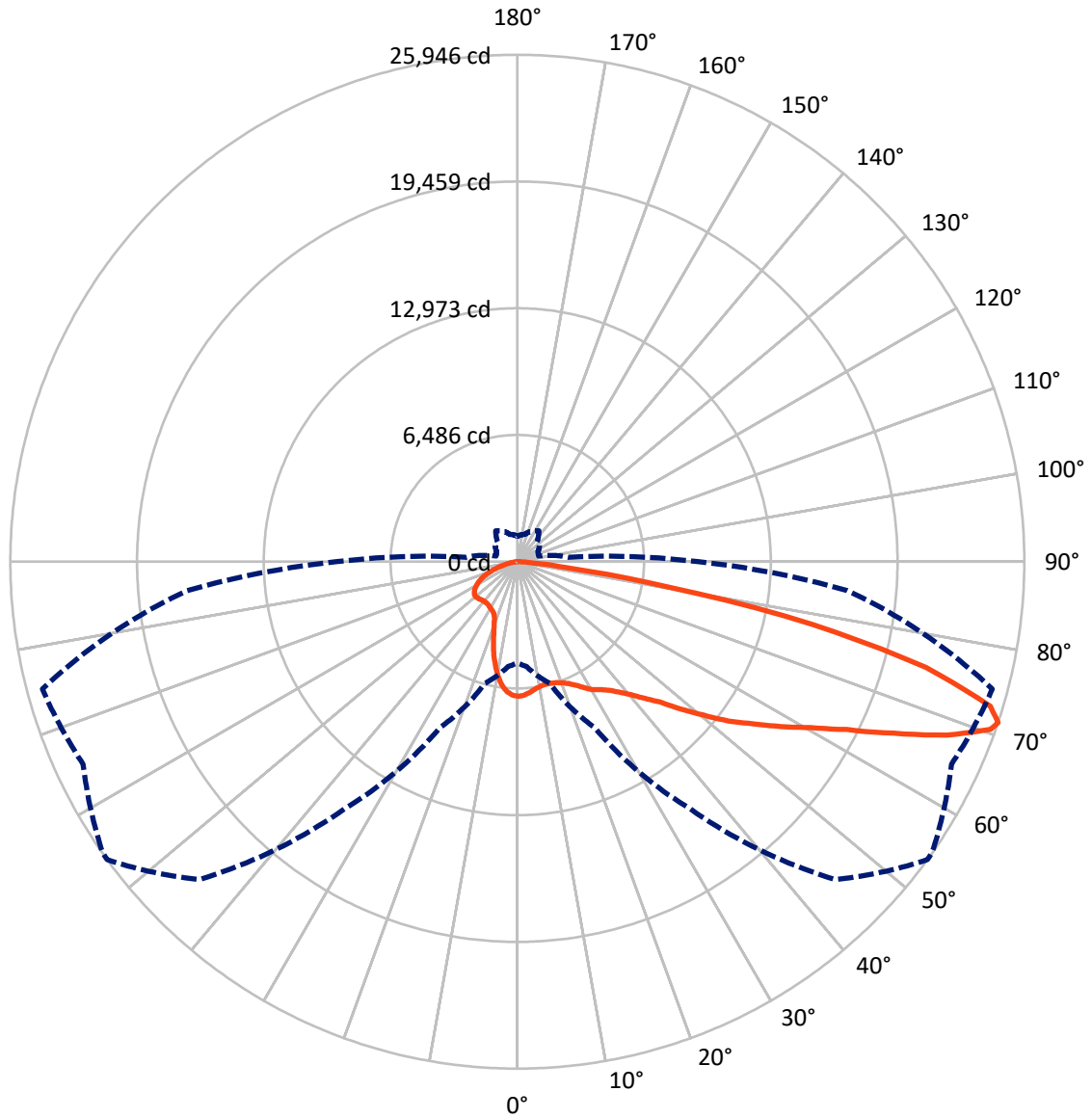
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type IV - Medium - N/A

REPORT NUMBER: P457667
CATALOG NUMBER: GALN-SA9A-730-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



REPORT NUMBER: P457667
 CATALOG NUMBER: GALN-SA9A-730-U-T3R

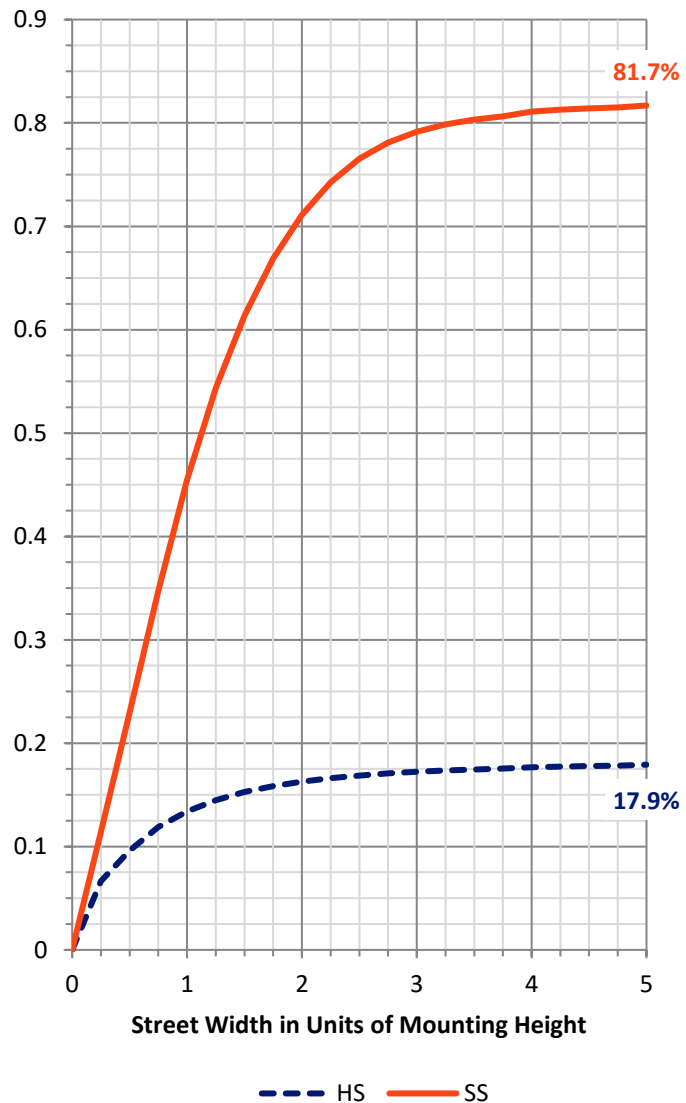
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6975.7	0.0	6975.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	31661.3	0.0	31661.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	38637.0	0.0	38637.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.3	1.6
10°-20°	1622.1	4.2
20°-30°	2700.8	7.0
30°-40°	3993.6	10.3
40°-50°	5625.2	14.6
50°-60°	7532.4	19.5
60°-70°	9494.0	24.6
70°-80°	6484.4	16.8
80°-90°	570.3	1.5
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°	38637.0	100.0
0°-180°	38637.0	100.0



REPORT NUMBER: P457667

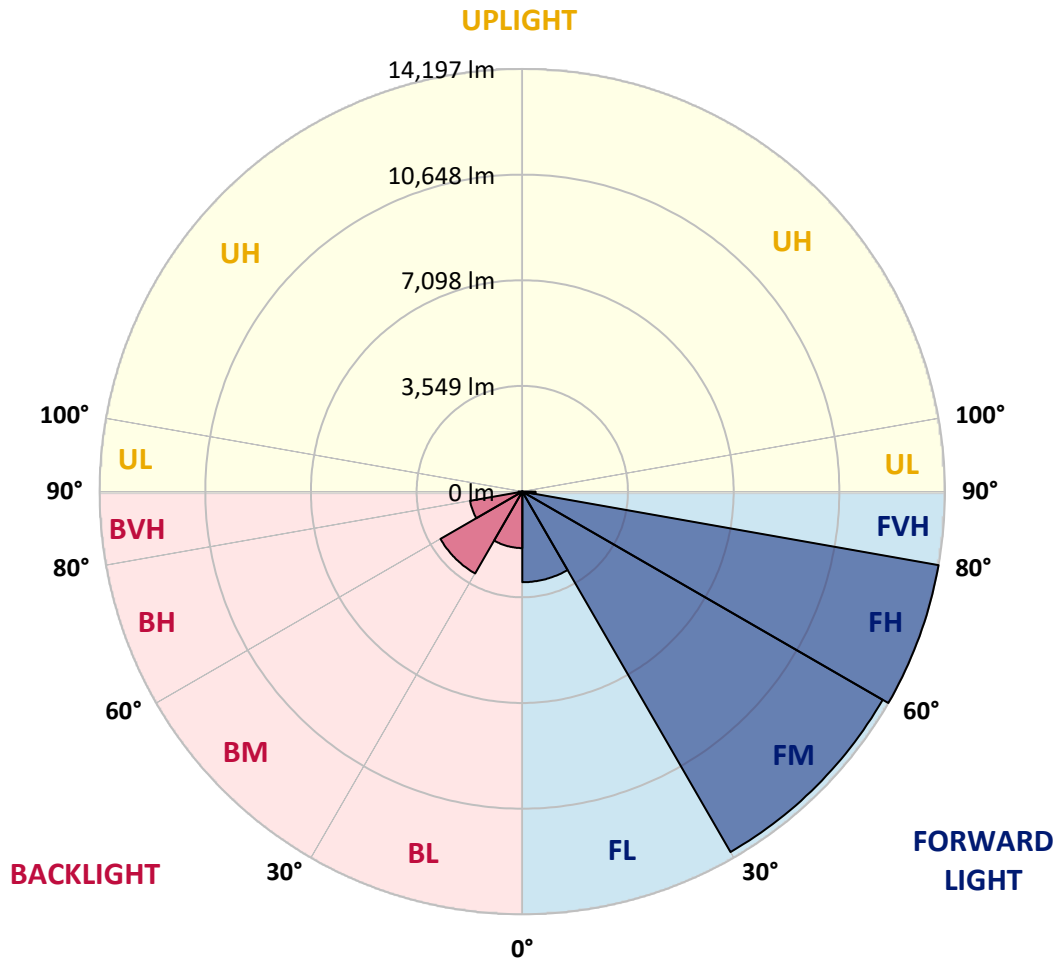
CATALOG NUMBER: GALN-SA9A-730-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3041.4	7.9			
FM (30°-60°)	13977.5	36.2			
FH (60°-80°)	14196.8	36.7			G5
FVH (80°-90°)	445.7	1.2			G3/500
BL (0°-30°)	1895.9	4.9	B3/2500		
BM (30°-60°)	3173.7	8.2	B3/5000		
BH (60°-80°)	1781.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	124.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





REPORT NUMBER: P457667

CATALOG NUMBER: GALN-SA9A-730-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6893.4	6893.4	6893.4	6893.4	6893.4	6893.4	6893.4	6893.4	6893.4	6893.4	6893.4
2.5°	6659.7	6691.0	6699.3	6720.2	6764.0	6799.5	6835.0	6830.8	6880.9	6901.8	6920.5
5°	6363.3	6371.7	6403.0	6444.7	6521.9	6620.0	6716.0	6718.1	6841.2	6939.3	6987.3
7.5°	6146.3	6173.4	6194.3	6238.1	6319.5	6425.9	6578.3	6590.8	6809.9	7004.0	7106.3
10°	6004.3	6035.6	6058.6	6112.9	6194.3	6313.2	6478.1	6501.1	6787.0	7106.3	7285.8
12.5°	5874.9	5906.3	5927.1	5998.1	6104.5	6250.6	6436.4	6463.5	6795.3	7225.2	7482.0
15°	5954.3	5979.3	5971.0	5991.8	6062.8	6229.7	6453.1	6480.2	6826.6	7340.0	7676.0
17.5°	6307.0	6327.8	6259.0	6179.7	6146.3	6269.4	6505.2	6534.4	6889.2	7459.0	7874.3
20°	6826.6	6883.0	6732.7	6555.3	6394.6	6411.3	6613.8	6645.1	6976.9	7578.0	8076.8
22.5°	7502.8	7544.6	7360.9	7068.7	6772.4	6620.0	6776.5	6795.3	7108.4	7732.4	8298.0
25°	8298.0	8323.0	8068.4	7692.7	7264.9	6976.9	6999.9	7033.2	7325.4	7907.7	8494.2
27.5°	9070.2	9149.5	8855.2	8396.1	7832.6	7352.6	7306.6	7327.5	7561.3	8005.8	8629.8
30°	9986.4	9980.1	9669.1	9137.0	8414.8	7761.6	7596.7	7592.6	7688.6	8053.8	8727.9
32.5°	10716.8	10802.4	10497.7	9917.5	9080.6	8185.3	7797.1	7788.7	7786.7	8137.3	8874.0
35°	11547.5	11560.0	11280.3	10696.0	9800.6	8717.5	8076.8	8035.0	7987.0	8316.8	9072.3
37.5°	12290.4	12348.9	12092.2	11436.8	10508.1	9270.5	8460.8	8433.6	8287.5	8627.7	9389.5
40°	12870.6	12914.5	12760.0	12136.0	11205.2	9867.4	8949.1	8899.0	8721.6	9137.0	9813.1
42.5°	13060.5	13150.3	13210.8	12904.0	12006.6	10574.9	9550.2	9487.6	9351.9	9909.2	10301.5
45°	13075.2	13217.1	13536.4	13551.0	12812.2	11422.2	10251.4	10207.6	10197.2	10898.4	10988.1
47.5°	12964.5	13108.5	13644.9	13935.0	13530.1	12277.9	11263.6	11194.8	11201.0	12121.4	11758.2
50°	12697.4	12868.5	13519.7	14181.3	14091.5	13167.0	12332.2	12309.2	12438.6	13517.6	12557.6
52.5°	12194.4	12401.0	13390.3	14335.7	14508.9	13932.9	13546.8	13482.1	13809.8	15032.8	13432.0
55°	10802.4	11113.4	12916.5	14421.3	14905.5	14665.5	14640.4	14757.3	15191.4	16685.7	14394.1
57.5°	10076.1	10309.9	11887.6	14435.9	15406.3	15517.0	15917.7	15946.9	16706.6	18440.9	15481.5
60°	9679.6	9886.2	11324.1	14339.9	16105.5	16570.9	17224.1	17328.5	18186.3	20342.1	16608.5
62.5°	9333.1	9510.5	10986.1	14008.0	16894.4	18134.1	18916.7	18966.8	19866.3	22441.7	17720.9
65°	8517.1	8719.6	10305.7	13676.2	17574.8	20087.5	21162.3	21103.9	21654.9	24253.2	18417.9
67.5°	7417.3	7674.0	9034.7	12530.4	17910.8	22222.5	23691.8	23618.8	23420.5	25440.7	18618.3
70°	6012.7	6150.4	7408.9	10549.9	16568.8	23343.3	25689.1	25611.9	24514.1	25597.2	17670.8
71°	5173.7	5388.7	6451.0	9370.7	15452.3	23001.0	25945.8	25924.9	24516.2	25165.2	16957.0
72.5°	4038.4	4169.9	5109.0	7260.7	13133.6	21055.9	25311.3	25390.6	23984.0	23965.2	15485.7
75°	2554.5	2612.9	3205.7	4274.2	7206.5	14911.7	21606.9	21821.8	21295.9	19615.9	11516.2
77.5°	1483.9	1559.0	1920.1	2519.0	3113.8	8093.4	15460.6	15694.4	14796.9	10800.3	4714.6
80°	864.0	947.5	1264.7	1463.0	1429.6	3003.2	7872.2	8270.8	6407.1	2727.7	1323.2
82.5°	480.0	536.4	889.1	891.2	761.8	980.9	2477.3	2592.1	1828.2	1099.9	540.5
85°	348.5	394.4	573.9	519.7	365.2	421.6	861.9	903.7	738.8	463.3	175.3
87.5°	123.1	175.3	315.1	250.4	100.2	87.7	248.4	202.4	187.8	129.4	39.7
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: P457667
 CATALOG NUMBER: GALN-SA9A-730-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6893.4	6893.4	6893.4	6893.4	6893.4	6893.4	6893.4	6893.4	6893.4	6893.4	6893.4
2.5°	6931.0	6935.2	6914.3	6876.7	6839.2	6791.1	6736.9	6695.1	6676.4	6674.3	6672.2
5°	7006.1	7016.5	6937.2	6820.4	6691.0	6532.4	6396.7	6242.3	6202.6	6140.0	6158.8
7.5°	7127.2	7120.9	6964.4	6716.0	6413.4	6077.4	5793.6	5628.7	5457.5	5409.5	5411.6
10°	7300.4	7260.7	6964.4	6503.1	5998.1	5499.3	5102.8	4852.3	4716.7	4604.0	4562.2
12.5°	7484.0	7383.9	6897.6	6204.7	5463.8	4852.3	4426.6	4088.5	4000.8	3909.0	3911.1
15°	7659.3	7492.4	6766.1	5785.2	4887.8	4161.5	3748.3	3545.8	3518.7	3529.1	3527.1
17.5°	7818.0	7569.6	6565.8	5317.7	4215.8	3568.8	3349.7	3364.3	3437.3	3489.5	3495.8
20°	7978.7	7615.5	6267.3	4691.6	3581.3	3209.8	3218.2	3333.0	3443.6	3514.5	3525.0
22.5°	8131.0	7636.4	5916.7	4086.4	3122.2	3057.5	3180.6	3303.7	3412.3	3481.1	3491.6
25°	8231.2	7588.4	5420.0	3454.0	2896.8	3003.2	3132.6	3237.0	3328.8	3399.7	3416.4
27.5°	8258.3	7433.9	4804.3	2942.7	2792.4	2951.0	3070.0	3147.2	3218.2	3285.0	3297.5
30°	8243.7	7206.5	4128.1	2642.2	2731.9	2890.5	2982.3	3038.7	3124.3	3176.4	3186.9
32.5°	8220.8	6941.4	3422.7	2481.5	2681.8	2834.2	2888.4	2938.5	2936.4	2915.6	2930.2
35°	8229.1	6624.2	2850.9	2385.5	2638.0	2792.4	2838.3	2775.7	2596.2	2587.9	2579.6
37.5°	8272.9	6311.1	2435.5	2318.7	2615.0	2786.2	2811.2	2523.2	2364.6	2291.5	2272.8
40°	8385.6	5945.9	2162.1	2268.6	2612.9	2834.2	2688.1	2395.9	2091.2	1949.3	1938.8
42.5°	8535.9	5586.9	1995.2	2237.3	2638.0	2907.2	2638.0	2216.4	1884.6	1801.1	1788.6
45°	8759.2	5175.8	1903.4	2222.7	2675.6	2934.3	2621.3	2084.9	1801.1	1734.3	1734.3
47.5°	9011.7	4783.4	1853.3	2212.2	2723.6	2915.6	2473.1	2043.2	1761.4	1769.8	1809.4
50°	9262.2	4443.3	1815.7	2189.3	2765.3	2905.1	2412.6	2041.1	1771.9	1878.3	1949.3
52.5°	9552.3	4203.2	1769.8	2151.7	2765.3	2838.3	2393.8	2082.8	1801.1	1832.4	1863.7
55°	9902.9	4128.1	1711.4	2070.3	2715.2	2671.4	2383.4	2143.4	1822.0	1748.9	1761.4
57.5°	10366.2	4249.2	1655.0	1968.1	2600.4	2498.2	2379.2	2160.1	1774.0	1713.4	1700.9
60°	10904.7	4489.2	1638.3	1863.7	2443.9	2350.0	2354.2	2112.1	1707.2	1644.6	1655.0
62.5°	11282.4	4633.2	1627.9	1784.4	2272.8	2187.2	2293.6	2053.6	1678.0	1623.7	1634.1
65°	11282.4	4457.9	1531.9	1663.4	2051.5	1991.0	2220.6	1980.6	1640.4	1577.8	1567.3
67.5°	10854.6	3946.5	1385.8	1481.8	1807.4	1767.7	2118.3	1892.9	1584.0	1536.0	1511.0
70°	9740.1	2992.8	1202.1	1268.9	1498.5	1534.0	1986.8	1774.0	1490.1	1431.7	1394.1
71°	9249.7	2606.7	1124.9	1160.4	1379.5	1431.7	1924.2	1723.9	1448.4	1364.9	1298.1
72.5°	8304.2	2195.5	1008.0	1022.6	1179.2	1273.1	1792.7	1627.9	1369.1	1250.1	1175.0
75°	6309.0	1602.8	811.8	803.5	872.4	1010.1	1517.3	1450.5	1200.0	1039.3	995.5
77.5°	2725.6	872.4	607.3	613.6	592.7	765.9	1193.8	1245.9	1028.9	845.2	805.6
80°	826.5	503.0	415.3	423.7	396.5	513.4	841.1	976.7	826.5	657.4	603.1
82.5°	423.7	300.5	283.8	279.7	252.5	290.1	509.2	667.8	590.6	411.1	363.1
85°	183.7	160.7	139.8	135.7	119.0	104.4	181.6	333.9	313.1	229.6	219.1
87.5°	45.9	41.7	27.1	25.0	14.6	2.1	0.0	0.0	0.0	0.0	0.0
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)