

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: P383442

Luminaire Tested: **GAN-SA7C-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383442
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-SA7C-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47812.6 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

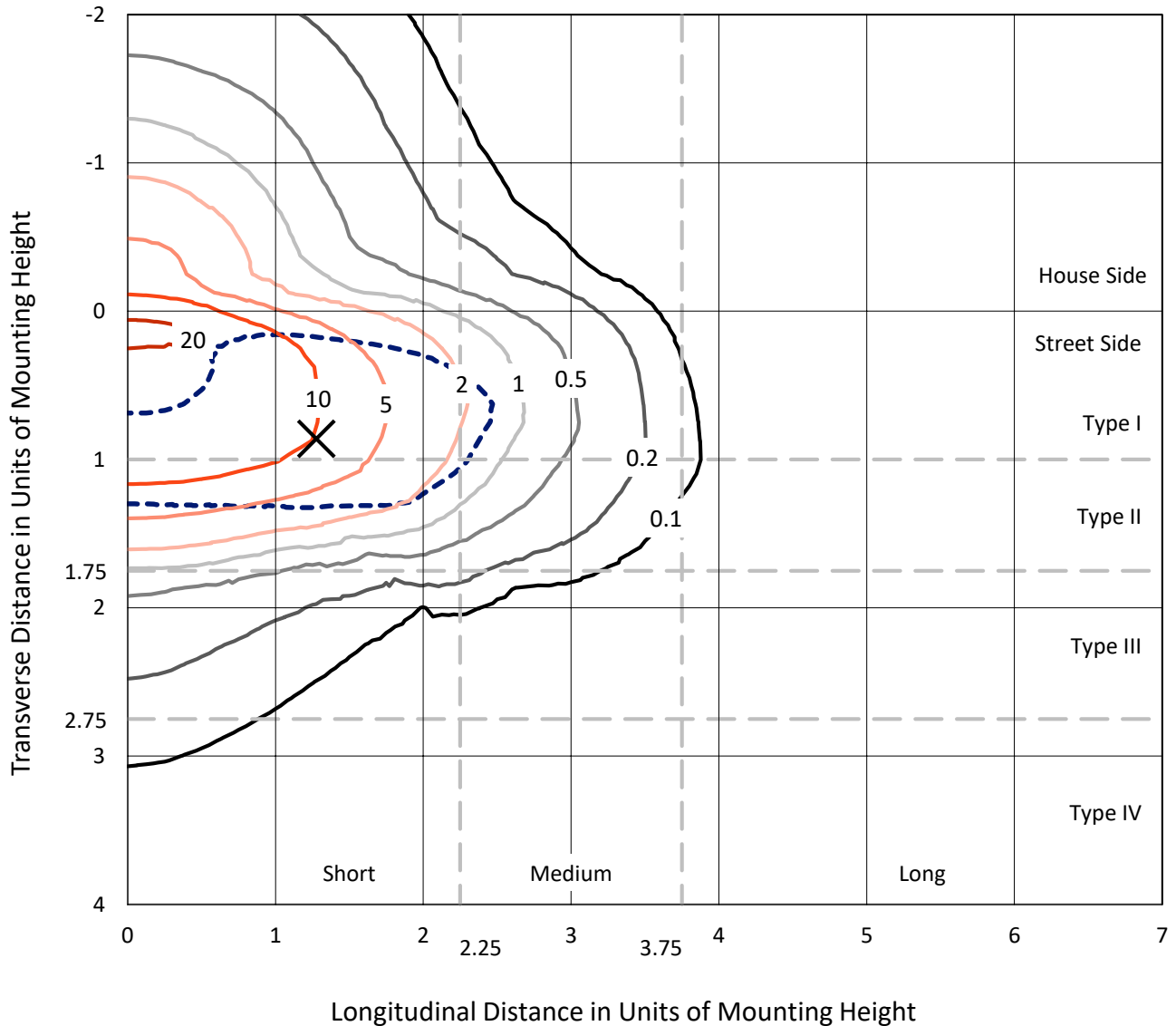
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383442
 CATALOG NUMBER: GAN-SA7C-735-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

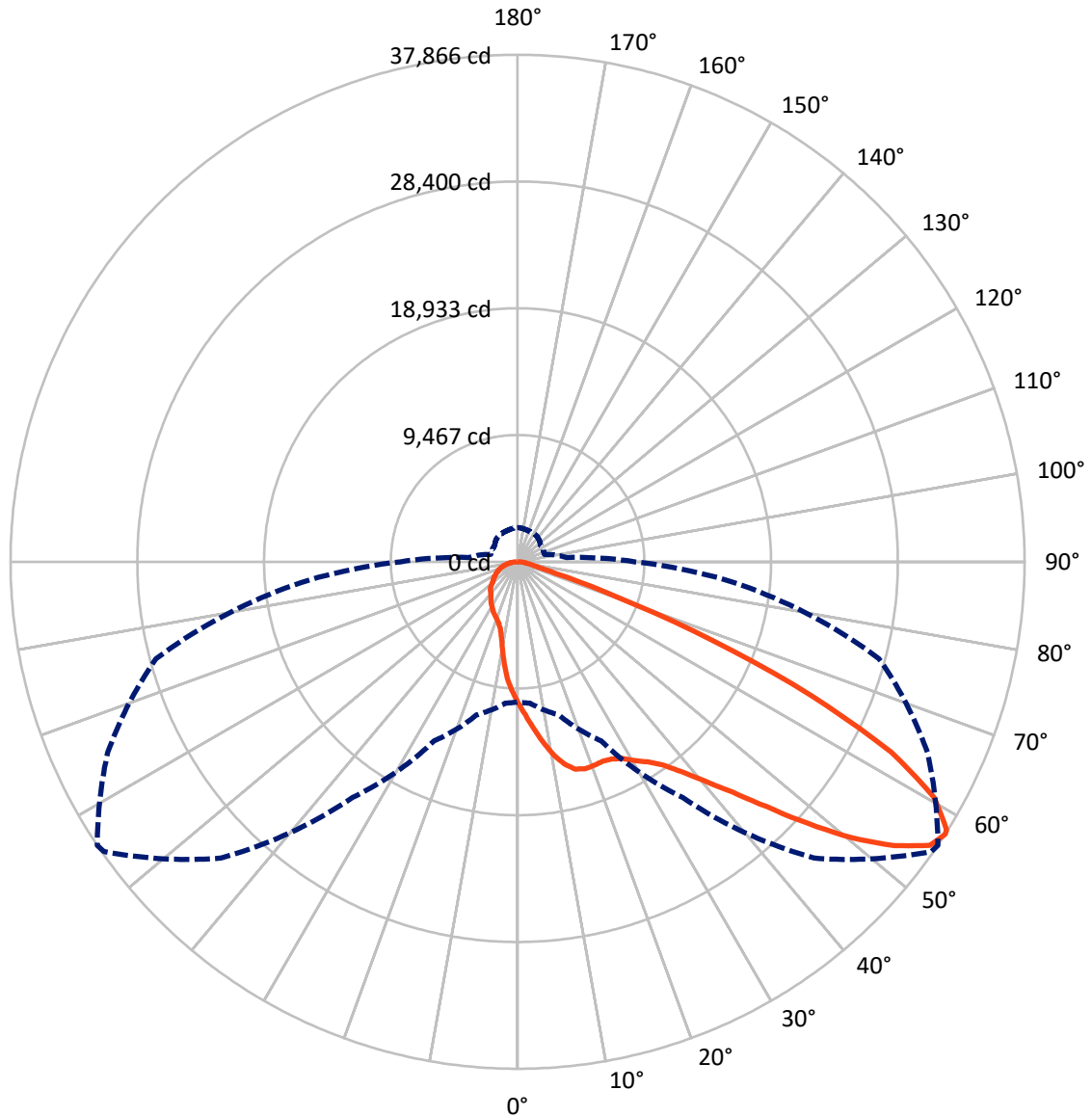
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.5 fc
 Type II - Short - N/A

REPORT NUMBER: P383442
CATALOG NUMBER: GAN-SA7C-735-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P383442

CATALOG NUMBER: GAN-SA7C-735-U-AFL

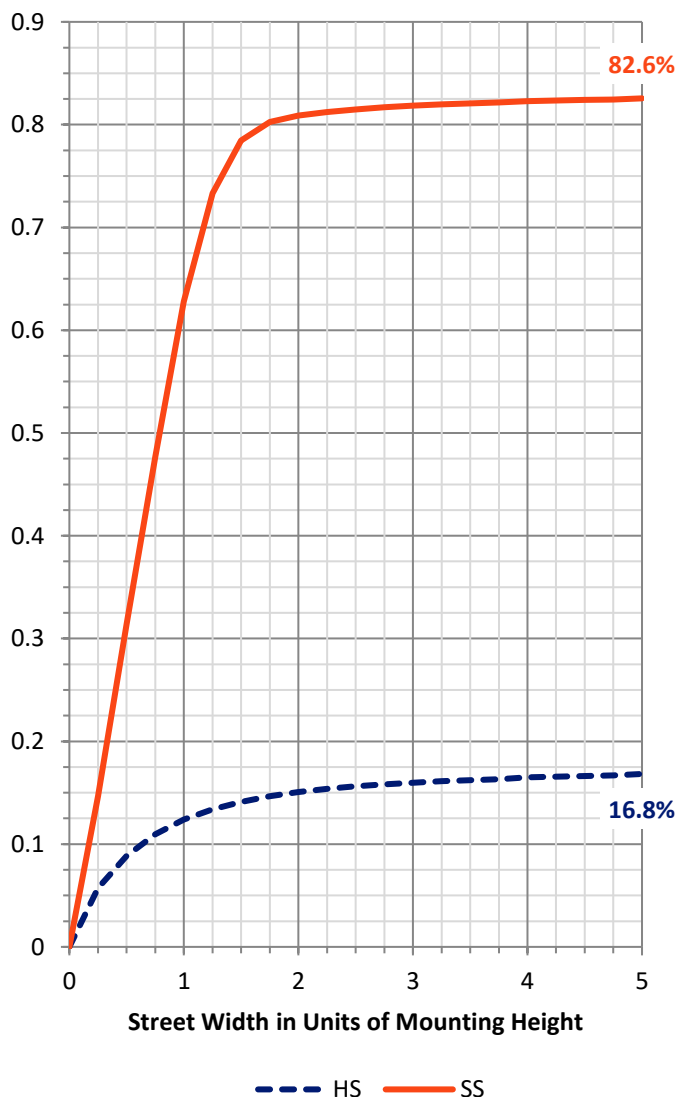
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8241.9	0.0	8241.9
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	39570.7	0.0	39570.7
	% Fixture	82.8	0.0	82.8
Total	Lumens	47812.6	0.0	47812.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1013.0	2.1
10°-20°	2864.1	6.0
20°-30°	4665.0	9.8
30°-40°	6973.7	14.6
40°-50°	10577.6	22.1
50°-60°	11855.7	24.8
60°-70°	7002.4	14.6
70°-80°	2294.3	4.8
80°-90°	566.8	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°	47812.6	100.0
0°-180°	47812.6	100.0

Coefficient of Utilization



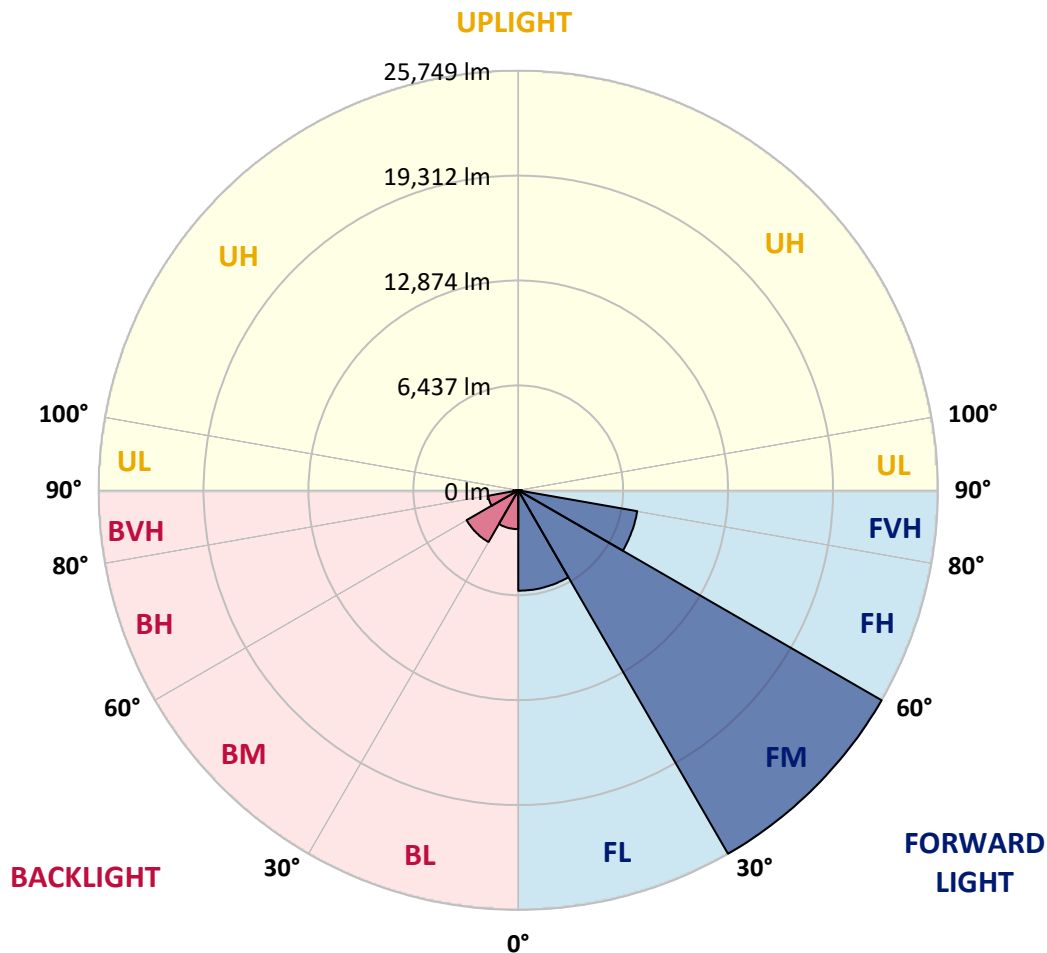
REPORT NUMBER: P383442
 CATALOG NUMBER: GAN-SA7C-735-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6159.0	12.9			
FM (30°-60°)	25748.7	53.9			
FH (60°-80°)	7413.5	15.5			G3/7500
FVH (80°-90°)	249.6	0.5			G3/500
BL (0°-30°)	2383.2	5.0	B3/2500		
BM (30°-60°)	3658.3	7.7	B3/5000		
BH (60°-80°)	1883.2	3.9	B3/2500		G3/2500
BVH (80°-90°)	317.2	0.7			G3/500
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: P383442

CATALOG NUMBER: GAN-SA7C-735-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	10604.9	10604.9	10604.9	10604.9	10604.9	10604.9	10604.9	10604.9	10604.9	10604.9	10604.9
2.5°	12177.4	12289.1	12239.8	12068.9	11937.5	11751.8	11544.8	11482.3	11263.8	11019.0	10724.8
5°	14104.7	14048.9	13968.4	13702.2	13421.3	13094.2	12575.1	12492.9	12006.5	11452.7	10867.8
7.5°	15202.4	15197.5	15149.9	14993.7	14737.4	14310.2	13684.2	13587.2	12852.7	11962.1	11055.1
10°	15043.0	15031.5	15110.4	15273.1	15350.3	15261.5	14734.1	14637.1	13735.1	12525.7	11272.0
12.5°	14137.6	14144.2	14270.8	14612.5	15077.6	15636.2	15550.8	15503.1	14650.4	13163.2	11534.9
15°	13432.7	13447.5	13547.8	13845.1	14394.0	15407.8	16047.0	16063.4	15536.0	13866.6	11842.2
17.5°	13123.8	13155.0	13201.1	13409.7	13912.6	14952.6	16165.3	16254.0	16311.5	14596.0	12138.0
20°	13222.4	13252.0	13265.1	13398.3	13810.7	14676.6	16083.2	16242.6	16906.4	15283.0	12433.7
22.5°	13664.4	13682.5	13690.7	13725.2	14045.6	14755.4	16029.0	16196.5	17336.8	15899.1	12657.2
25°	14397.3	14384.1	14331.6	14287.1	14502.4	15067.7	16153.8	16313.2	17686.8	16457.7	12803.4
27.5°	15274.7	15258.3	15156.4	15034.8	15158.0	15554.1	16513.6	16640.1	18000.7	16980.3	12877.3
30°	16328.0	16285.2	16093.0	15948.4	15996.1	16283.6	17106.8	17221.8	18485.4	17573.5	12949.6
32.5°	17545.5	17499.5	17221.8	16981.9	16981.9	17221.8	17718.0	17813.3	18896.2	18243.9	13066.4
35°	19070.4	19012.9	18651.4	18248.8	18135.5	18257.0	18551.1	18618.6	19635.6	19088.4	13278.3
37.5°	20868.0	20790.7	20322.5	19783.5	19535.4	19528.8	19740.8	19878.9	20817.0	20197.6	13638.1
40°	22670.5	22616.3	22207.2	21783.2	21296.9	21140.7	21467.7	21510.5	22361.6	21574.5	14098.2
42.5°	24063.9	24054.0	23978.5	24034.3	23536.5	23221.0	23477.3	23511.8	24247.9	23064.8	14587.8
45°	24800.0	24816.4	25182.9	25994.6	26178.6	25948.6	26075.1	26085.0	26403.8	24568.4	15036.5
47.5°	24210.2	24295.6	25222.3	27038.0	28544.8	29308.8	29098.5	29220.1	28493.8	25859.9	15388.0
50°	21911.4	22016.6	23594.0	26573.0	29649.0	32560.7	32450.6	32422.6	30179.7	26806.3	15578.7
52.5°	19063.8	19146.0	20447.4	24156.0	28838.9	34358.3	35368.8	35224.1	31678.3	27514.6	15614.9
55°	14727.6	14855.7	16102.8	19331.7	25562.5	33671.4	37514.7	37385.0	33043.8	27885.9	15572.1
57°	10470.1	10604.9	11843.8	14753.9	21503.8	31293.8	37728.3	37866.4	33781.5	27948.3	15619.7
57.5°	9343.0	9481.0	10708.4	13534.6	20238.6	30434.4	37544.3	37774.3	33914.6	27938.4	15646.1
60°	4704.3	4756.9	5539.1	7555.2	12793.6	24604.5	35143.7	35736.9	34034.6	27455.4	15759.5
62.5°	2924.8	2887.1	2862.4	3480.2	6224.2	16316.4	30189.6	31331.6	31739.0	26285.5	15485.0
65°	2571.5	2500.8	2229.8	2180.5	2749.0	7924.9	22734.6	24156.0	26834.3	24441.9	14831.1
67.5°	2415.4	2346.4	2040.8	1856.8	1858.4	3141.7	14114.6	15715.1	20904.1	21324.8	13288.2
70°	2254.4	2191.9	1906.0	1689.2	1582.3	1740.1	6493.7	7708.0	13626.6	16761.8	11106.0
72.5°	2047.4	2004.6	1733.5	1510.0	1396.7	1303.0	2486.1	2936.3	7888.7	11257.2	7712.9
75°	1830.5	1791.0	1559.3	1345.7	1207.8	1025.4	1399.9	1508.5	4007.6	5759.2	3797.4
77.5°	1592.2	1569.2	1386.8	1189.7	1079.6	849.5	990.8	1043.4	1718.7	2469.6	1904.4
80°	1266.9	1311.2	1212.7	1059.8	957.9	680.3	701.6	736.1	1000.7	1206.1	1081.2
82.5°	824.9	902.1	949.7	861.0	788.7	535.6	504.4	519.2	652.4	736.1	470.0
85°	343.5	386.1	624.4	563.6	524.2	391.1	338.5	345.0	404.2	419.0	192.3
87.5°	152.8	162.6	274.4	257.9	221.8	134.7	144.6	157.7	215.3	203.7	74.0
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: P383442
 CATALOG NUMBER: GAN-SA7C-735-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10604.9	10604.9	10604.9	10604.9	10604.9	10604.9	10604.9	10604.9	10604.9	10604.9	10604.9
2.5°	10614.7	10476.7	10240.1	9978.8	9765.2	9594.4	9421.9	9303.6	9165.5	9091.5	9053.7
5°	10623.0	10351.8	9854.0	9343.0	8886.1	8468.8	8071.1	7765.5	7479.6	7325.1	7282.5
7.5°	10657.5	10250.0	9444.8	8603.5	7791.8	7050.8	6478.9	6120.7	5862.8	5747.7	5714.9
10°	10685.4	10130.0	8938.8	7693.2	6589.0	5838.1	5394.5	5194.0	5105.3	5090.4	5075.7
12.5°	10751.1	10006.8	8406.4	6743.5	5654.0	5134.9	4980.4	4967.2	4991.9	5028.0	5028.0
15°	10854.7	9885.2	7798.4	5928.5	5059.2	4876.8	4908.0	4980.4	5047.8	5103.6	5111.9
17.5°	10930.2	9735.7	7144.4	5276.2	4742.1	4791.4	4903.2	5005.0	5074.0	5128.3	5133.2
20°	10984.4	9503.9	6446.0	4778.3	4559.7	4712.5	4852.2	4942.6	4990.2	5044.4	5052.7
22.5°	10956.5	9193.4	5826.6	4421.7	4411.8	4597.6	4730.6	4839.1	4803.0	4750.3	4784.9
25°	10821.8	8766.2	5189.1	4155.5	4255.8	4443.1	4607.4	4535.1	4413.5	4390.5	4403.6
27.5°	10581.9	8220.6	4599.1	3909.1	4075.1	4300.1	4290.2	4218.0	4175.2	4145.7	4163.7
30°	10323.9	7629.1	4083.3	3693.8	3874.6	4060.2	4022.4	4020.7	3978.1	3930.4	3953.4
32.5°	10069.2	7034.3	3674.1	3516.3	3723.4	3748.0	3830.2	3854.8	3771.0	3670.8	3664.2
35°	9847.4	6472.4	3363.5	3355.3	3541.0	3544.3	3664.2	3629.7	3421.0	3317.5	3317.5
37.5°	9681.4	5912.1	3126.9	3210.7	3301.1	3386.5	3447.3	3304.4	3269.8	3212.3	3210.7
40°	9609.1	5419.1	2979.0	3100.7	3131.9	3240.3	3084.2	3140.1	3156.5	3126.9	3126.9
42.5°	9533.6	4990.2	2850.9	3016.8	3011.9	2997.1	2918.3	2990.5	3056.2	3057.9	3053.0
45°	9458.0	4620.6	2737.4	2837.7	2906.7	2747.3	2762.1	2839.4	2931.4	2964.3	2964.3
47.5°	9374.2	4328.1	2634.0	2648.8	2755.5	2648.8	2637.2	2696.4	2804.9	2857.4	2869.0
50°	9190.1	4065.2	2515.6	2482.8	2512.4	2548.5	2558.4	2586.3	2706.2	2790.1	2809.8
52.5°	8935.4	3830.2	2364.5	2330.0	2330.0	2466.4	2512.4	2520.6	2622.5	2722.7	2742.4
55°	8723.5	3680.6	2208.4	2201.8	2195.3	2379.3	2458.2	2471.3	2541.9	2620.8	2630.7
57°	8738.3	3669.2	2088.4	2095.1	2093.4	2290.6	2407.2	2435.2	2471.3	2538.7	2550.2
57.5°	8746.5	3677.4	2062.2	2065.4	2063.8	2265.9	2392.4	2423.6	2451.6	2522.3	2533.7
60°	8869.7	3698.7	1955.3	1919.2	1927.4	2134.5	2308.7	2348.1	2366.1	2459.8	2474.6
62.5°	8687.3	3603.4	1869.9	1782.8	1782.8	1996.4	2191.9	2254.4	2282.3	2408.9	2433.5
65°	8158.2	3335.6	1769.7	1628.3	1644.8	1858.4	2052.3	2154.2	2196.9	2354.7	2380.9
67.5°	7341.6	3025.0	1662.9	1490.3	1506.8	1713.8	1907.7	2017.8	2085.2	2295.5	2316.9
70°	6278.4	2645.5	1518.2	1344.1	1363.8	1556.1	1736.8	1861.7	1961.9	2239.6	2246.1
72.5°	4628.8	2168.9	1316.2	1183.1	1204.4	1372.0	1564.3	1708.8	1843.6	2100.0	2096.6
75°	2752.3	1695.7	1092.7	1020.4	1035.2	1191.3	1408.2	1584.0	1786.1	2045.7	2077.0
77.5°	1669.4	1276.7	890.6	854.4	872.5	1031.9	1296.4	1483.8	1761.5	1929.0	1919.2
80°	1008.9	912.0	711.5	688.5	706.6	882.4	1199.5	1408.2	1539.7	1648.1	1648.1
82.5°	527.4	557.1	522.5	504.4	529.1	716.5	1091.0	1229.1	1360.5	1168.3	1091.0
85°	215.3	290.8	317.1	315.5	330.2	496.2	941.5	1051.6	877.4	833.1	852.8
87.5°	72.3	123.2	154.5	133.1	139.6	312.2	652.4	507.7	603.0	420.7	399.3
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)