

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: P320952

Luminaire Tested: **GAN-SA8A-740-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320952
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-SA8A-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38317 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

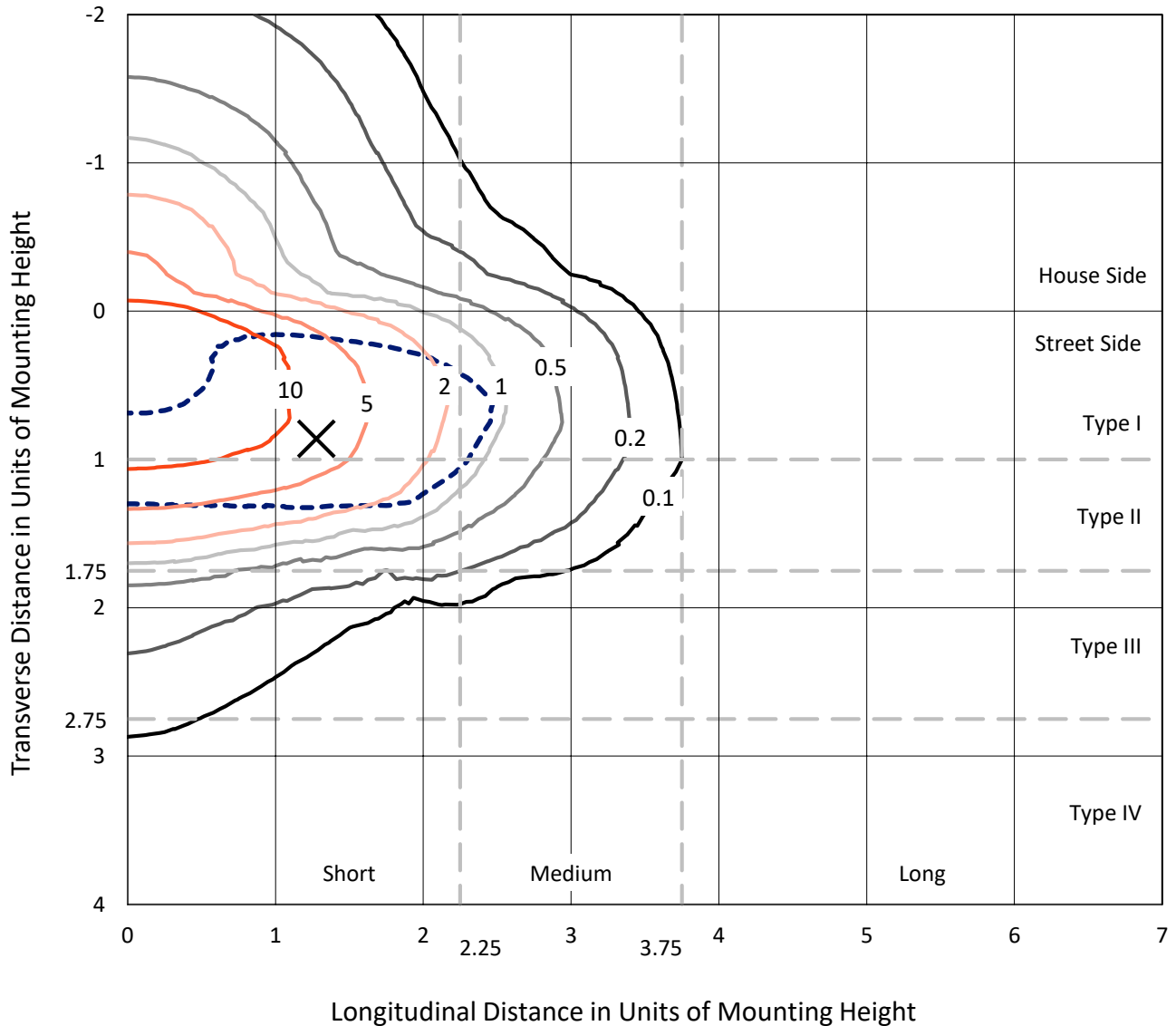
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320952
 CATALOG NUMBER: GAN-SA8A-740-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

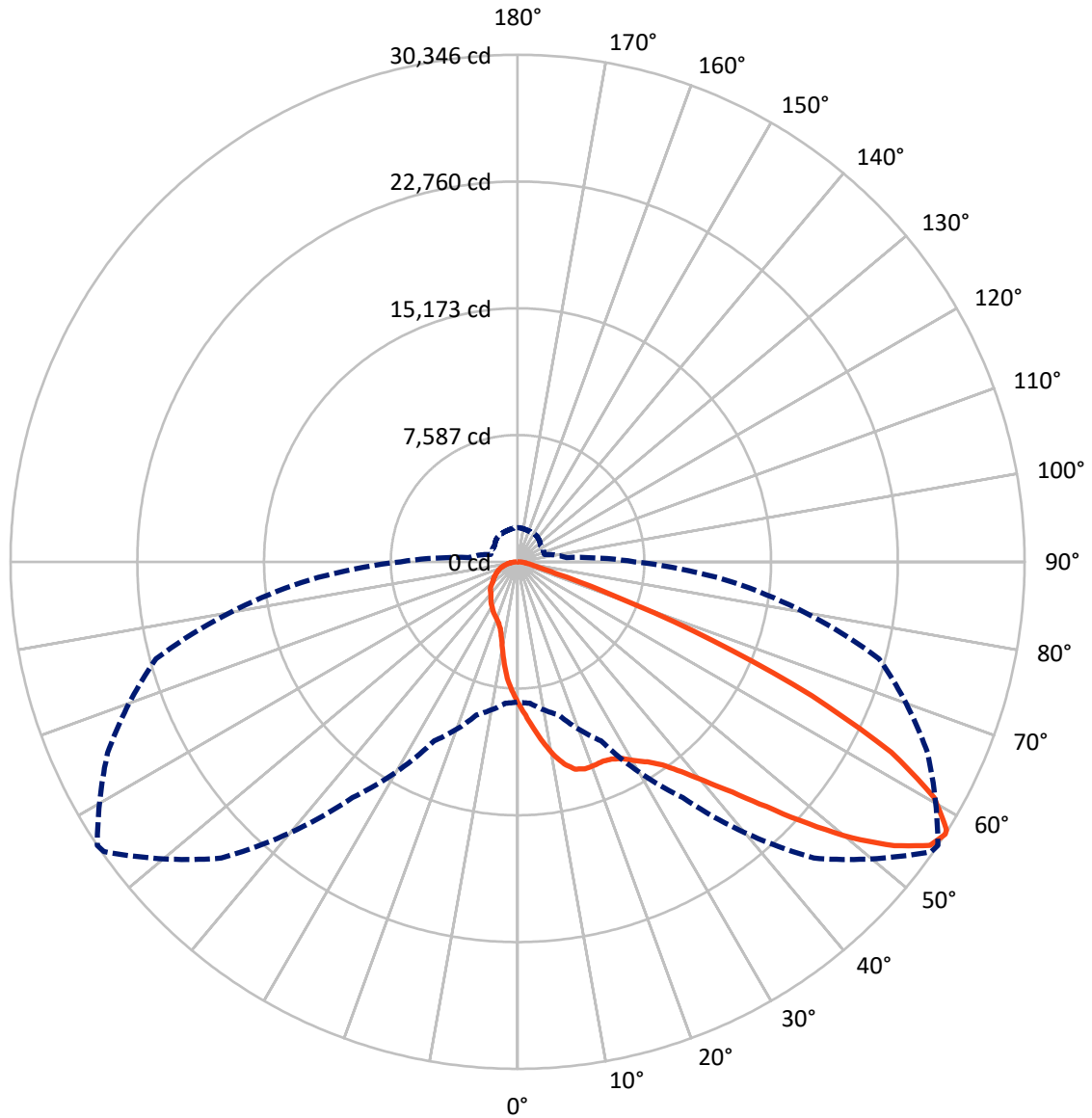
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 fc
 Type II - Short - N/A

REPORT NUMBER: P320952
CATALOG NUMBER: GAN-SA8A-740-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P320952
 CATALOG NUMBER: GAN-SA8A-740-U-AFL

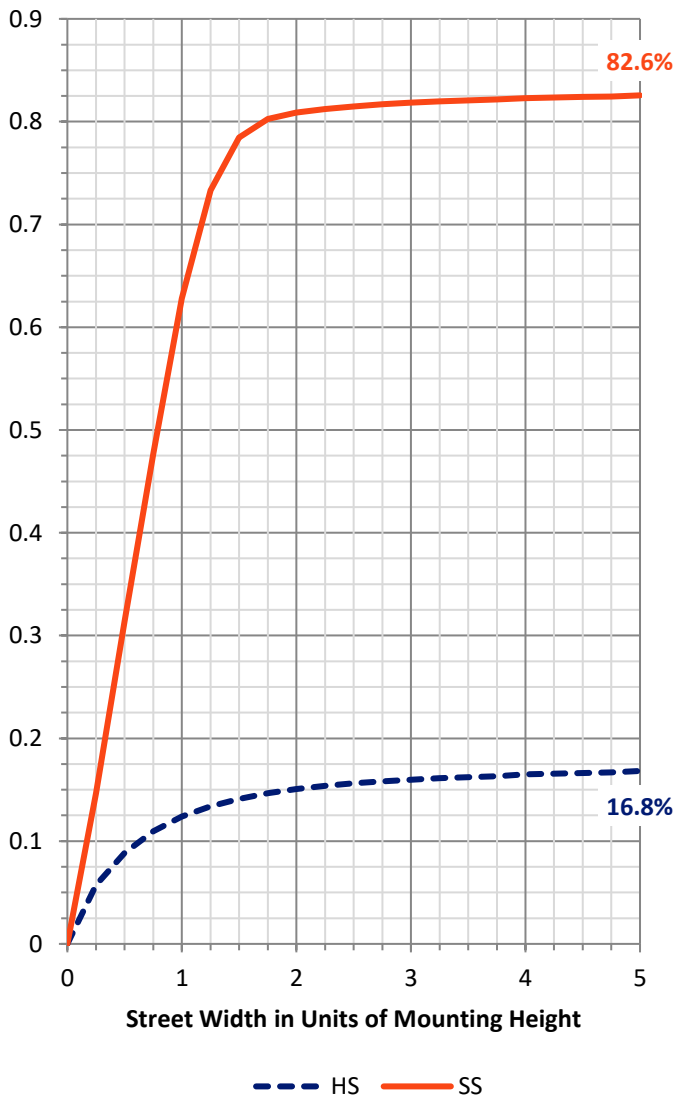
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6605.0	0.0	6605.0
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	31712.0	0.0	31712.0
	% Fixture	82.8	0.0	82.8
Total	Lumens	38317.0	0.0	38317.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	811.8	2.1
10°-20°	2295.3	6.0
20°-30°	3738.6	9.8
30°-40°	5588.7	14.6
40°-50°	8476.9	22.1
50°-60°	9501.1	24.8
60°-70°	5611.7	14.6
70°-80°	1838.6	4.8
80°-90°	454.3	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°	38317.0	100.0
0°-180°	38317.0	100.0

Coefficient of Utilization



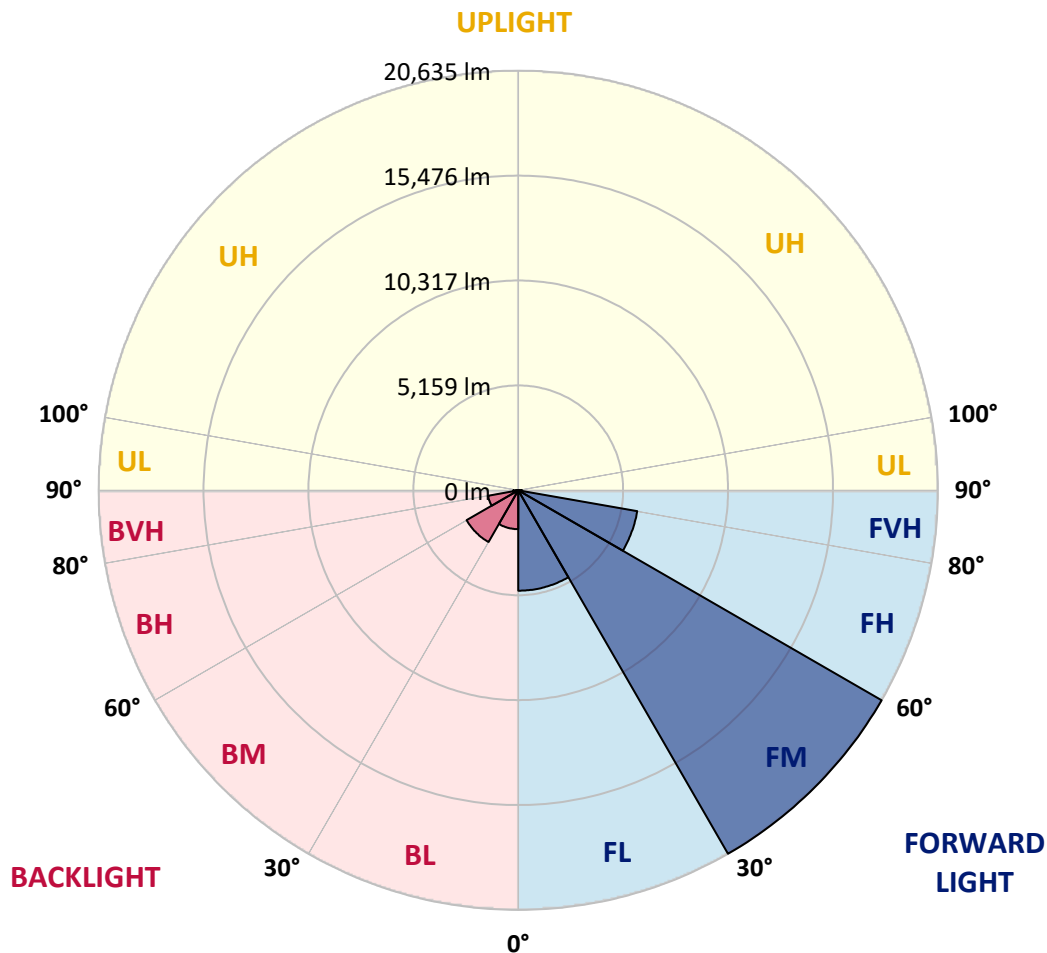
REPORT NUMBER: P320952
 CATALOG NUMBER: GAN-SA8A-740-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4935.8	12.9			
FM (30°-60°)	20635.0	53.9			
FH (60°-80°)	5941.2	15.5			G3/7500
FVH (80°-90°)	200.0	0.5			G2/225
BL (0°-30°)	1909.9	5.0	B3/2500		
BM (30°-60°)	2931.8	7.7	B3/5000		
BH (60°-80°)	1509.2	3.9	B3/2500		G3/2500
BVH (80°-90°)	254.2	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: P320952

CATALOG NUMBER: GAN-SA8A-740-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8498.7	8498.7	8498.7	8498.7	8498.7	8498.7	8498.7	8498.7	8498.7	8498.7	8498.7
2.5°	9758.9	9848.5	9809.0	9672.0	9566.7	9417.9	9252.0	9201.9	9026.8	8830.6	8594.9
5°	11303.6	11258.8	11194.3	10980.9	10755.8	10493.7	10077.6	10011.8	9622.0	9178.2	8709.4
7.5°	12183.2	12179.3	12141.1	12016.0	11810.5	11468.2	10966.5	10888.8	10300.2	9586.4	8859.6
10°	12055.5	12046.3	12109.5	12239.8	12301.7	12230.6	11807.9	11730.2	11007.3	10038.1	9033.4
12.5°	11329.9	11335.2	11436.6	11710.5	12083.1	12530.8	12462.4	12424.2	11740.8	10549.0	9244.1
15°	10765.0	10776.8	10857.2	11095.5	11535.3	12347.8	12860.0	12873.2	12450.5	11112.6	9490.3
17.5°	10517.4	10542.4	10579.3	10746.6	11149.5	11983.0	12954.9	13026.0	13072.1	11697.3	9727.3
20°	10596.4	10620.1	10630.7	10737.3	11067.9	11761.8	12889.0	13016.7	13548.7	12247.7	9964.4
22.5°	10950.7	10965.1	10971.7	10999.4	11256.2	11825.0	12845.6	12979.9	13893.8	12741.5	10143.5
25°	11538.0	11527.4	11485.3	11449.7	11622.2	12075.2	12945.6	13073.4	14174.2	13189.3	10260.6
27.5°	12241.1	12228.0	12146.3	12048.9	12147.6	12465.0	13234.0	13335.4	14425.7	13608.0	10319.9
30°	13085.2	13051.0	12896.9	12781.0	12819.2	13049.7	13709.4	13801.6	14814.2	14083.4	10377.8
32.5°	14061.0	14024.1	13801.6	13609.3	13609.3	13801.6	14199.3	14275.6	15143.4	14620.6	10471.3
35°	15283.0	15236.9	14947.2	14624.6	14533.7	14631.2	14866.9	14920.9	15736.0	15297.5	10641.2
37.5°	16723.6	16661.7	16286.4	15854.5	15655.7	15650.4	15820.3	15930.9	16682.8	16186.3	10929.6
40°	18168.1	18124.7	17796.8	17457.1	17067.3	16942.2	17204.2	17238.5	17920.6	17289.8	11298.3
42.5°	19284.8	19276.9	19216.3	19261.1	18862.1	18609.3	18814.7	18842.4	19432.3	18484.2	11690.7
45°	19874.7	19887.9	20181.6	20832.1	20979.5	20795.2	20896.6	20904.5	21160.0	19689.1	12050.2
47.5°	19402.0	19470.5	20213.2	21668.2	22875.8	23488.1	23319.5	23417.0	22834.9	20724.1	12332.0
50°	17559.8	17644.0	18908.2	21295.6	23760.7	26094.1	26005.8	25983.5	24186.0	21482.6	12484.8
52.5°	15277.7	15343.6	16386.5	19358.5	23111.5	27534.7	28344.5	28228.6	25386.9	22050.1	12513.7
55°	11802.6	11905.4	12904.8	15492.4	20485.7	26984.2	30064.3	29960.3	26481.2	22347.7	12479.5
57°	8390.8	8498.7	9491.6	11823.7	17233.2	25078.8	30235.5	30346.1	27072.5	22397.8	12517.7
57.5°	7487.4	7598.0	8581.7	10846.6	16219.3	24390.1	30088.0	30272.3	27179.1	22389.9	12538.7
60°	3770.1	3812.2	4439.0	6054.7	10252.7	19718.0	28164.1	28639.5	27275.3	22002.7	12629.6
62.5°	2343.9	2313.6	2293.9	2789.0	4988.1	13076.0	24193.9	25109.1	25435.7	21065.1	12409.7
65°	2060.8	2004.2	1786.9	1747.4	2203.0	6351.0	18219.5	19358.5	21505.0	19587.7	11885.6
67.5°	1935.7	1880.4	1635.5	1488.0	1489.3	2517.8	11311.5	12594.1	16752.6	17089.7	10649.1
70°	1806.7	1756.6	1527.5	1353.7	1268.1	1394.5	5204.1	6177.2	10920.4	13432.9	8900.4
72.5°	1640.8	1606.5	1389.2	1210.2	1119.3	1044.2	1992.3	2353.2	6322.0	9021.5	6181.1
75°	1466.9	1435.3	1249.7	1078.5	967.9	821.7	1121.9	1208.8	3211.7	4615.4	3043.2
77.5°	1276.0	1257.6	1111.4	953.4	865.1	680.8	794.0	836.2	1377.4	1979.2	1526.2
80°	1015.3	1050.8	971.8	849.3	767.7	545.2	562.3	589.9	801.9	966.5	866.5
82.5°	661.0	722.9	761.1	690.0	632.1	429.3	404.3	416.1	522.8	589.9	376.6
85°	275.2	309.5	500.4	451.7	420.1	313.4	271.3	276.5	323.9	335.8	154.1
87.5°	122.5	130.4	219.9	206.7	177.8	108.0	115.9	126.4	172.5	163.3	59.3
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: P320952
 CATALOG NUMBER: GAN-SA8A-740-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8498.7	8498.7	8498.7	8498.7	8498.7	8498.7	8498.7	8498.7	8498.7	8498.7	8498.7
2.5°	8506.6	8396.0	8206.4	7997.0	7825.9	7688.9	7550.6	7455.8	7345.2	7286.0	7255.7
5°	8513.2	8296.0	7897.0	7487.4	7121.4	6786.9	6468.2	6223.3	5994.2	5870.4	5836.1
7.5°	8540.9	8214.3	7569.1	6894.9	6244.4	5650.5	5192.2	4905.1	4698.4	4606.2	4579.9
10°	8563.3	8118.2	7163.5	6165.3	5280.4	4678.7	4323.1	4162.5	4091.4	4079.5	4067.7
12.5°	8615.9	8019.4	6736.8	5404.2	4531.2	4115.1	3991.3	3980.7	4000.5	4029.5	4029.5
15°	8698.9	7922.0	6249.6	4751.1	4054.5	3908.3	3933.3	3991.3	4045.3	4090.0	4096.6
17.5°	8759.5	7802.1	5725.5	4228.3	3800.3	3839.8	3929.4	4011.0	4066.3	4109.8	4113.7
20°	8802.9	7616.5	5165.9	3829.3	3654.2	3776.6	3888.6	3961.0	3999.2	4042.6	4049.2
22.5°	8780.5	7367.6	4669.4	3543.6	3535.7	3684.5	3791.1	3878.0	3849.1	3806.9	3834.6
25°	8672.6	7025.2	4158.5	3330.2	3410.6	3560.7	3692.4	3634.4	3537.0	3518.5	3529.1
27.5°	8480.3	6588.0	3685.8	3132.7	3265.7	3446.1	3438.2	3380.3	3346.0	3322.3	3336.8
30°	8273.6	6114.0	3272.3	2960.2	3105.1	3253.9	3223.6	3222.3	3188.0	3149.8	3168.3
32.5°	8069.5	5637.3	2944.4	2818.0	2983.9	3003.7	3069.5	3089.3	3022.1	2941.8	2936.5
35°	7891.7	5186.9	2695.5	2688.9	2837.7	2840.4	2936.5	2908.9	2741.6	2658.7	2658.7
37.5°	7758.7	4737.9	2505.9	2573.1	2645.5	2714.0	2762.7	2648.1	2620.5	2574.4	2573.1
40°	7700.8	4342.9	2387.4	2484.8	2509.9	2596.8	2471.7	2516.4	2529.6	2505.9	2505.9
42.5°	7640.2	3999.2	2284.7	2417.7	2413.7	2401.9	2338.7	2396.6	2449.3	2450.6	2446.6
45°	7579.6	3702.9	2193.8	2274.1	2329.5	2201.7	2213.6	2275.5	2349.2	2375.5	2375.5
47.5°	7512.4	3468.5	2110.9	2122.7	2208.3	2122.7	2113.5	2160.9	2247.8	2289.9	2299.2
50°	7365.0	3257.8	2016.0	1989.7	2013.4	2042.4	2050.3	2072.7	2168.8	2236.0	2251.8
52.5°	7160.9	3069.5	1894.9	1867.2	1867.2	1976.5	2013.4	2020.0	2101.6	2182.0	2197.8
55°	6991.0	2949.7	1769.8	1764.5	1759.3	1906.8	1970.0	1980.5	2037.1	2100.3	2108.2
57°	7002.8	2940.5	1673.7	1678.9	1677.6	1835.6	1929.1	1951.5	1980.5	2034.5	2043.7
57.5°	7009.4	2947.0	1652.6	1655.2	1653.9	1815.9	1917.3	1942.3	1964.7	2021.3	2030.5
60°	7108.2	2964.2	1567.0	1538.0	1544.6	1710.5	1850.1	1881.7	1896.2	1971.3	1983.1
62.5°	6962.0	2887.8	1498.5	1428.7	1428.7	1599.9	1756.6	1806.7	1829.1	1930.5	1950.2
65°	6538.0	2673.1	1418.2	1305.0	1318.1	1489.3	1644.7	1726.3	1760.6	1887.0	1908.1
67.5°	5883.5	2424.3	1332.6	1194.4	1207.5	1373.4	1528.8	1617.1	1671.0	1839.6	1856.7
70°	5031.6	2120.1	1216.7	1077.2	1093.0	1247.0	1391.9	1492.0	1572.3	1794.8	1800.1
72.5°	3709.5	1738.2	1054.8	948.1	965.2	1099.5	1253.6	1369.5	1477.5	1682.9	1680.3
75°	2205.7	1359.0	875.7	817.7	829.6	954.7	1128.5	1269.4	1431.4	1639.4	1664.5
77.5°	1337.9	1023.2	713.7	684.7	699.2	827.0	1039.0	1189.1	1411.6	1545.9	1538.0
80°	808.5	730.8	570.2	551.7	566.2	707.1	961.3	1128.5	1233.9	1320.8	1320.8
82.5°	422.7	446.4	418.7	404.3	424.0	574.1	874.4	985.0	1090.3	936.3	874.4
85°	172.5	233.1	254.1	252.8	264.7	397.7	754.5	842.8	703.2	667.6	683.4
87.5°	57.9	98.8	123.8	106.7	111.9	250.2	522.8	406.9	483.3	337.1	320.0
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)