

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: P317773

Luminaire Tested: **GAN-SA9C-740-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64653 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

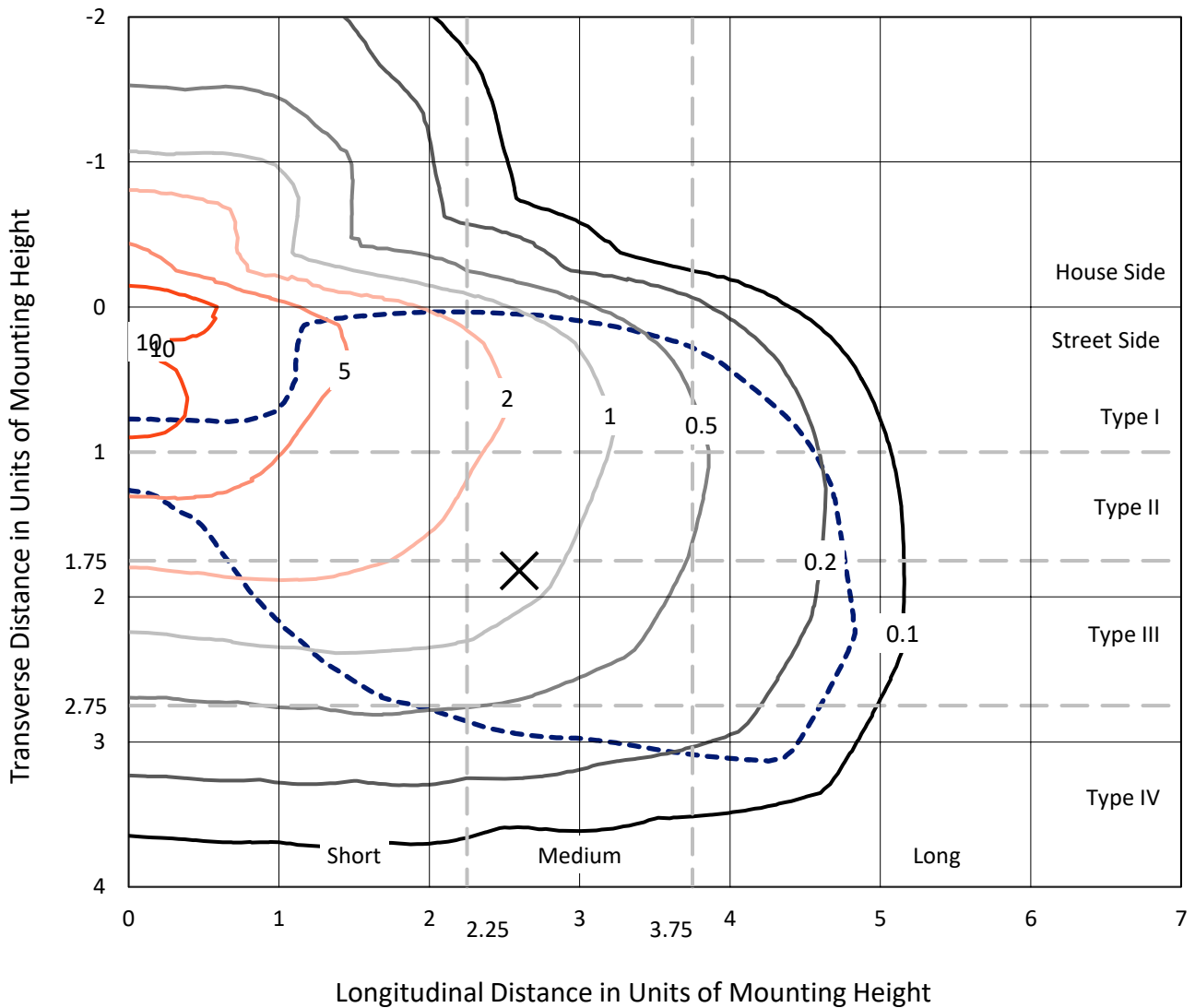
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317773
 CATALOG NUMBER: GAN-SA9C-740-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

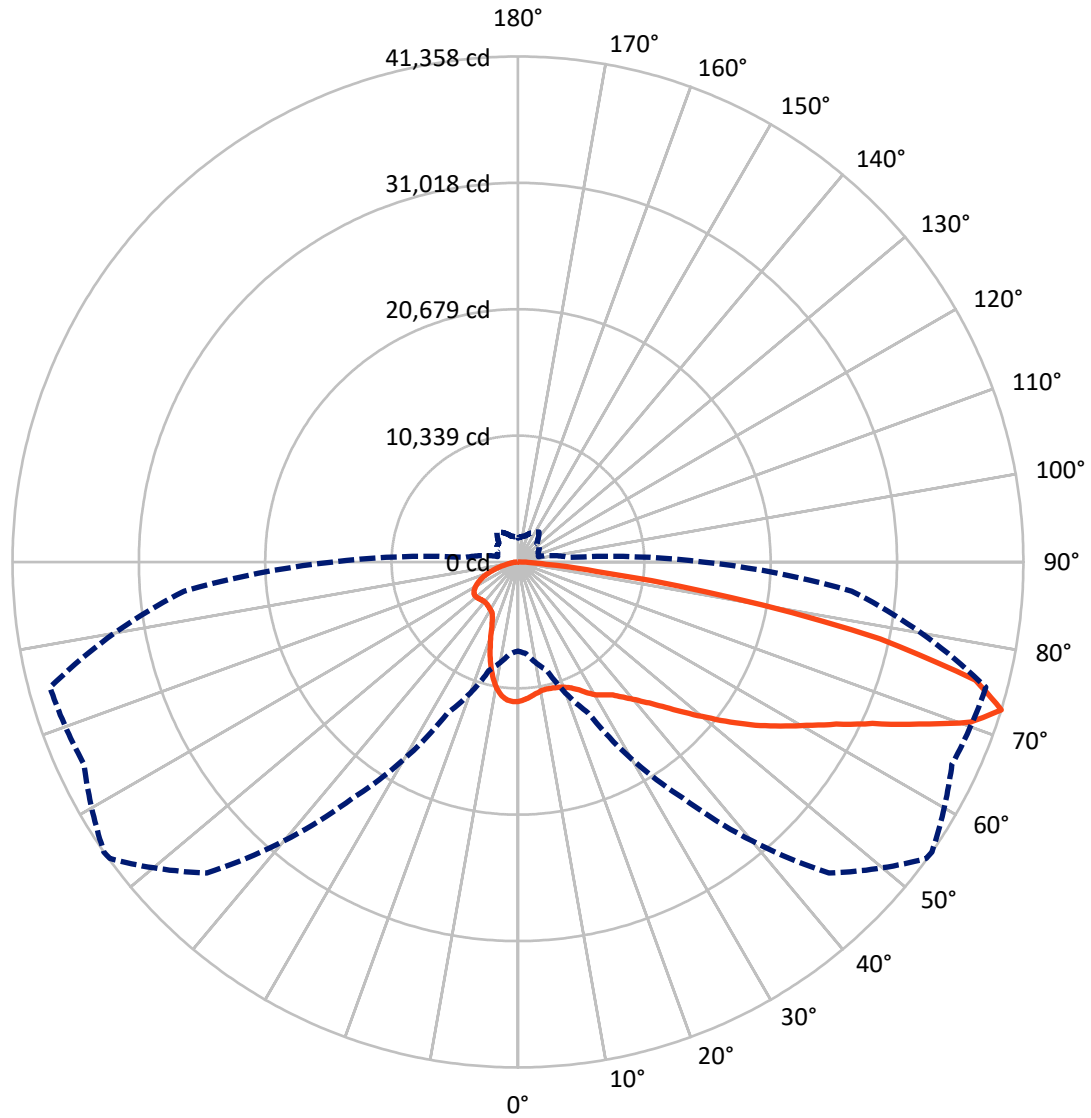
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.8 fc
 Type IV - Medium - N/A

REPORT NUMBER: P317773
CATALOG NUMBER: GAN-SA9C-740-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P317773
 CATALOG NUMBER: GAN-SA9C-740-U-T3R

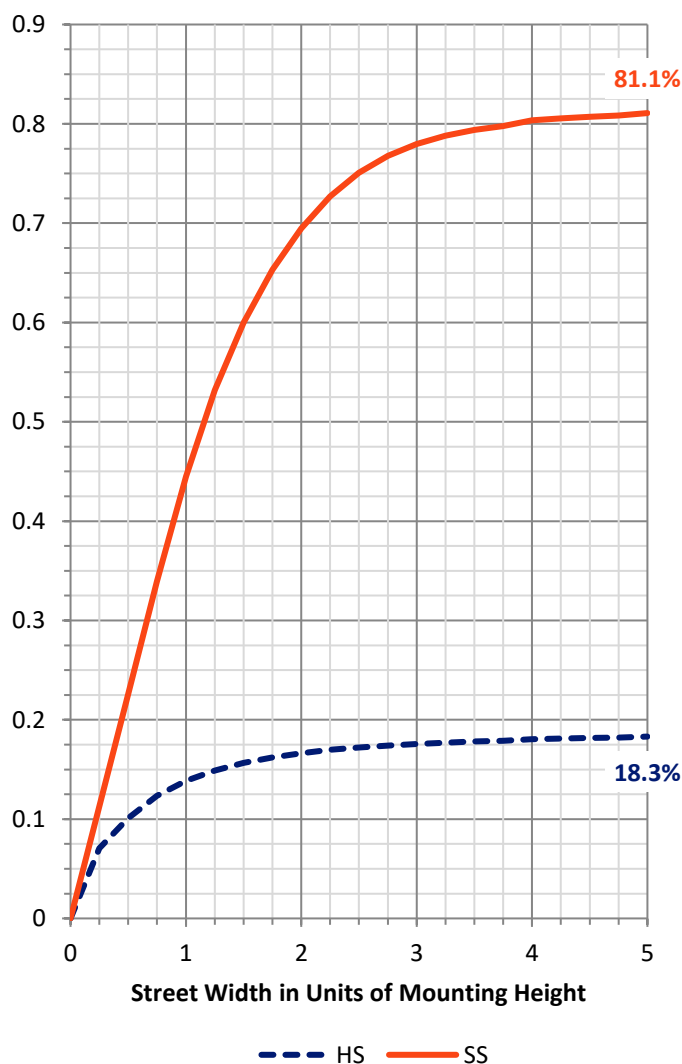
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12016.9	0.0	12016.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	52636.1	0.0	52636.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	64653.0	0.0	64653.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1031.9	1.6
10°-20°	2747.2	4.2
20°-30°	4529.5	7.0
30°-40°	6700.3	10.4
40°-50°	9352.1	14.5
50°-60°	12176.8	18.8
60°-70°	14964.9	23.1
70°-80°	11730.7	18.1
80°-90°	1419.6	2.2
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°	64653.0	100.0
0°-180°	64653.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317773

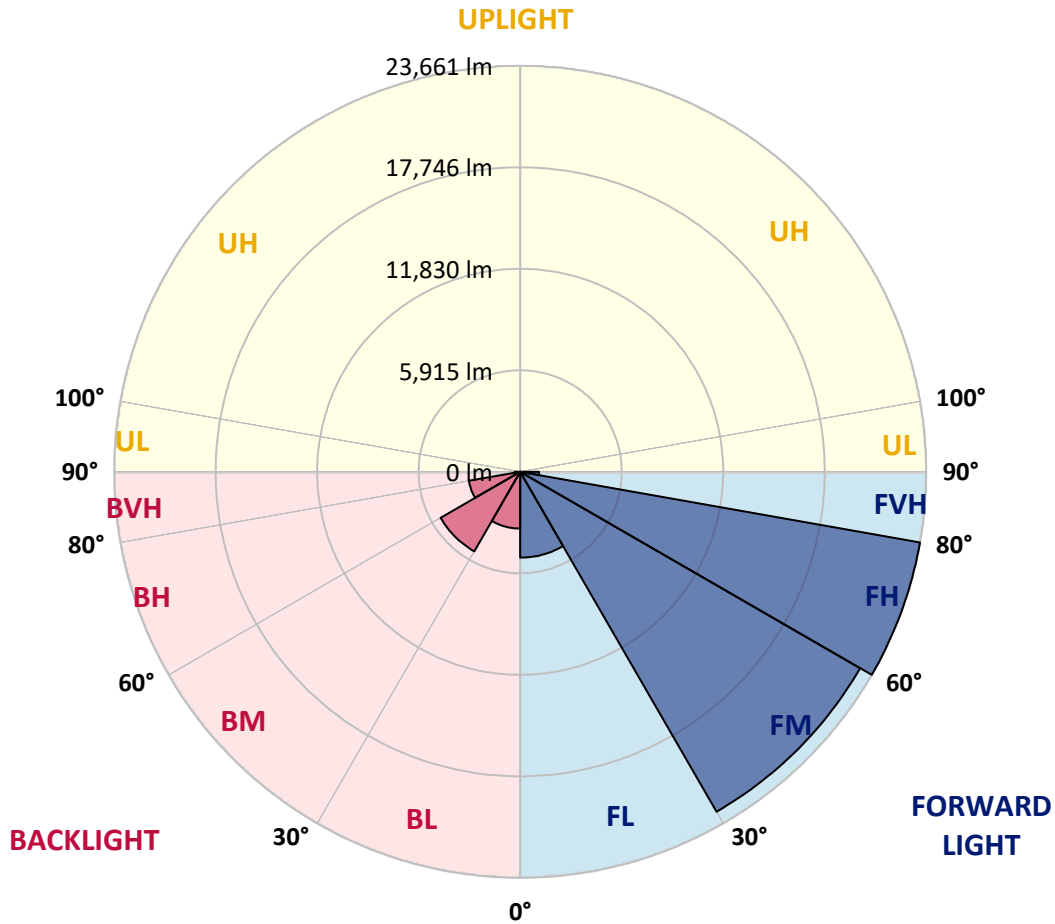
CATALOG NUMBER: GAN-SA9C-740-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5002.3	7.7			
FM (30°-60°)	22875.5	35.4			
FH (60°-80°)	23660.8	36.6			G5
FVH (80°-90°)	1097.5	1.7			G5
BL (0°-30°)	3306.3	5.1	B4/5000		
BM (30°-60°)	5353.7	8.3	B4/8500		
BH (60°-80°)	3034.8	4.7	B4/5000		G4/5000
BVH (80°-90°)	322.0	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium





REPORT NUMBER: P317773

CATALOG NUMBER: GAN-SA9C-740-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11403.4	11403.4	11403.4	11403.4	11403.4	11403.4	11403.4	11403.4	11403.4	11403.4	11403.4
2.5°	11032.2	11006.0	11038.7	11084.6	11134.8	11202.5	11241.8	11259.3	11327.0	11353.2	11409.9
5°	10521.2	10508.1	10562.7	10641.3	10752.6	10909.9	11036.5	11060.6	11239.6	11366.3	11482.0
7.5°	10149.9	10149.9	10213.3	10307.2	10431.6	10643.5	10822.5	10855.3	11158.8	11431.8	11645.8
10°	9855.1	9866.1	9940.3	10051.7	10198.0	10422.9	10660.9	10698.1	11137.0	11584.6	11925.3
12.5°	9658.6	9684.8	9752.5	9853.0	10034.2	10307.2	10608.5	10658.7	11182.8	11803.0	12261.6
15°	9783.1	9826.8	9833.3	9874.8	9975.2	10272.2	10639.1	10691.5	11281.1	12025.8	12643.8
17.5°	10329.0	10344.3	10276.6	10189.2	10141.2	10331.2	10730.8	10785.4	11399.0	12246.3	13010.6
20°	11158.8	11150.1	11003.8	10767.9	10523.4	10553.9	10881.5	10938.3	11558.4	12440.7	13377.5
22.5°	12207.0	12176.4	11951.5	11517.0	11099.9	10925.2	11145.7	11193.8	11798.7	12718.0	13770.6
25°	13477.9	13410.2	13113.3	12530.2	11916.6	11466.7	11543.2	11589.0	12148.0	13028.1	14130.9
27.5°	14818.7	14751.0	14373.3	13667.9	12851.2	12150.2	12091.3	12130.6	12545.5	13257.4	14397.3
30°	16220.7	16148.6	15803.6	15013.1	13842.6	12857.8	12602.3	12617.5	12825.0	13381.9	14615.7
32.5°	17629.2	17561.5	17175.0	16257.8	14919.2	13617.7	12971.3	12951.7	12993.1	13510.7	14862.4
35°	19057.3	19083.5	18631.5	17616.1	16111.5	14462.8	13408.1	13366.6	13274.8	13774.9	15211.8
37.5°	20586.0	20568.5	19983.2	18922.0	17358.4	15380.0	14034.8	14028.2	13711.6	14275.0	15759.9
40°	21607.9	21618.9	21262.9	20258.4	18618.4	16395.4	14838.4	14823.1	14408.2	15024.0	16478.4
42.5°	22007.6	22079.6	22171.3	21533.7	19937.4	17572.4	15797.0	15775.2	15380.0	16098.4	17323.5
45°	22035.9	22180.1	22747.8	22667.0	21273.8	18919.8	17022.1	16961.0	16677.1	17526.6	18332.3
47.5°	21791.4	21939.9	22883.2	23341.8	22468.3	20341.4	18454.6	18406.6	18162.0	19312.8	19424.2
50°	21256.4	21398.3	22603.7	23671.6	23451.0	21708.4	20105.5	19978.9	19847.9	21376.5	20673.3
52.5°	20254.0	20527.0	22230.3	23750.2	24038.4	22922.5	21841.6	21758.6	21830.7	23553.6	21924.6
55°	17880.3	18186.0	21267.3	23684.7	24473.0	23942.3	23577.7	23573.3	23946.7	25837.8	23267.6
57.5°	16550.4	16766.6	19306.3	23573.3	24988.3	24955.6	25296.2	25337.7	26064.9	28325.1	24673.9
60°	15799.2	16026.3	18312.7	23160.6	25787.6	26265.8	27049.8	27132.8	28218.1	31078.7	26366.3
62.5°	15115.7	15364.7	17696.9	22319.8	26728.8	28139.4	29150.5	29224.8	30497.9	33908.8	28001.9
65°	13947.4	14229.1	16795.0	21767.3	27584.8	30583.0	31821.2	31871.4	33116.1	36874.3	29253.1
67.5°	12296.5	12554.2	15093.9	20546.6	28218.1	33550.7	35371.9	35400.3	35712.6	38968.5	29893.0
70°	10368.3	10466.6	12670.0	18026.6	27469.0	36326.2	39263.3	39269.9	38079.8	40309.3	29788.2
72.5°	7284.9	7516.4	9197.8	13646.1	23606.0	35987.7	41283.3	41357.5	39180.3	39632.4	27407.9
75°	4467.9	4712.5	5769.4	8269.8	14976.0	28303.2	38143.1	38658.4	37116.7	35337.0	22389.7
77.5°	2987.3	3079.0	3764.7	4821.7	6784.8	16284.0	29325.2	30294.8	30834.2	25770.1	14318.7
80°	1666.2	1840.9	2496.0	2996.1	3017.9	6470.4	17583.3	17810.4	17155.3	10261.3	4417.7
82.5°	882.2	978.3	1666.2	1760.1	1646.5	2166.3	6553.4	6559.9	5481.1	2751.5	1312.4
85°	683.5	764.3	1142.1	1074.4	840.7	960.8	2161.9	2279.8	1864.9	1126.8	428.0
87.5°	340.7	423.6	775.2	681.3	329.7	275.1	773.0	825.4	735.9	441.1	155.0
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: P317773
 CATALOG NUMBER: GAN-SA9C-740-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11403.4	11403.4	11403.4	11403.4	11403.4	11403.4	11403.4	11403.4	11403.4	11403.4	11403.4
2.5°	11431.8	11451.4	11475.5	11449.3	11440.5	11405.6	11346.6	11333.5	11302.9	11305.1	11322.6
5°	11532.2	11565.0	11551.9	11451.4	11331.3	11163.2	10988.5	10840.0	10741.7	10735.2	10728.6
7.5°	11724.4	11746.2	11643.6	11357.5	11021.2	10632.5	10265.7	9944.7	9750.3	9702.3	9691.4
10°	12025.8	12021.4	11739.7	11163.2	10492.8	9798.4	9208.8	8763.3	8503.4	8427.0	8407.3
12.5°	12362.1	12311.8	11772.4	10809.4	9746.0	8782.9	8036.1	7540.4	7269.6	7182.3	7160.4
15°	12709.3	12584.8	11691.6	10281.0	8828.8	7688.9	6904.9	6446.3	6300.0	6252.0	6243.3
17.5°	13032.5	12792.2	11460.2	9564.7	7782.8	6599.2	5987.8	5804.3	5839.3	5902.6	5904.8
20°	13349.1	12932.0	11088.9	8660.6	6680.0	5701.7	5494.2	5629.6	5795.6	5924.4	5941.9
22.5°	13661.4	13030.3	10610.7	7616.8	5693.0	5197.3	5343.6	5590.3	5780.3	5920.1	5944.1
25°	13923.4	13054.3	9951.2	6503.1	5007.3	5007.3	5271.5	5505.2	5693.0	5830.5	5854.6
27.5°	14019.5	12892.7	9021.0	5472.4	4662.2	4919.9	5171.1	5365.4	5524.8	5671.1	5697.3
30°	14056.6	12593.5	7946.6	4644.8	4520.3	4826.0	5035.7	5201.6	5352.3	5489.9	5513.9
32.5°	14063.2	12233.2	6806.7	4175.3	4422.0	4727.8	4867.5	5013.8	5175.4	5230.0	5238.7
35°	14104.7	11807.4	5605.6	3935.1	4330.3	4636.0	4747.4	4852.2	4590.2	4609.8	4627.3
37.5°	14224.8	11385.9	4601.1	3799.7	4271.4	4588.0	4721.2	4341.2	4136.0	4087.9	4081.4
40°	14449.7	10936.1	3856.5	3690.5	4249.5	4612.0	4553.1	4053.0	3699.2	3435.0	3395.7
42.5°	14762.0	10451.3	3380.4	3618.4	4264.8	4727.8	4319.4	3775.7	3188.2	3017.9	2996.1
45°	15113.5	9942.5	3122.7	3568.2	4317.2	4817.3	4271.4	3406.6	2950.2	2821.4	2810.5
47.5°	15454.2	9320.1	2989.5	3546.4	4389.3	4745.2	4068.3	3293.1	2836.7	2769.0	2775.5
50°	15845.1	8758.9	2908.7	3522.3	4452.6	4699.4	3839.0	3234.1	2793.0	2876.0	2963.3
52.5°	16174.8	8178.0	2836.7	3474.3	4476.6	4618.6	3780.0	3245.0	2793.0	2952.4	3035.4
55°	16565.7	7739.1	2753.7	3373.9	4430.8	4389.3	3738.5	3310.5	2825.7	2725.3	2734.0
57.5°	17070.2	7595.0	2662.0	3216.6	4277.9	4055.2	3718.9	3373.9	2806.1	2742.8	2764.6
60°	17768.9	7747.8	2624.8	3011.4	4039.9	3793.1	3721.1	3341.1	2668.5	2559.3	2561.5
62.5°	18435.0	7918.2	2622.7	2882.5	3747.3	3559.5	3670.8	3234.1	2598.6	2535.3	2559.3
65°	18653.4	7745.7	2517.8	2738.4	3417.5	3280.0	3579.1	3120.5	2546.2	2450.1	2445.8
67.5°	18360.7	7210.7	2306.0	2504.7	3039.7	2954.6	3459.0	2985.1	2463.2	2384.6	2371.5
70°	17491.6	6016.2	2044.0	2196.8	2609.5	2587.7	3269.0	2827.9	2351.9	2284.2	2227.4
72.5°	15152.8	4286.6	1723.0	1827.8	2124.8	2194.6	3007.0	2622.7	2194.6	2048.3	1961.0
75°	12445.0	3172.9	1415.1	1436.9	1613.8	1803.8	2646.7	2382.4	2009.0	1760.1	1692.4
77.5°	7621.2	1941.3	1126.8	1135.5	1157.4	1439.1	2179.4	2113.8	1773.2	1467.5	1419.4
80°	2467.6	1059.1	814.5	856.0	790.5	1054.7	1685.8	1799.4	1522.1	1227.3	1174.8
82.5°	939.0	618.0	550.3	578.7	548.1	707.5	1229.4	1441.3	1246.9	1008.9	821.1
85°	454.2	349.4	325.4	364.7	338.5	362.5	786.1	1061.3	945.6	657.3	611.4
87.5°	161.6	155.0	124.5	168.1	144.1	128.8	240.2	535.0	624.5	452.0	404.0
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)