

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: P317813

Luminaire Tested: **GAN-SA9C-750-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317813
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-750-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 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: 64652 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

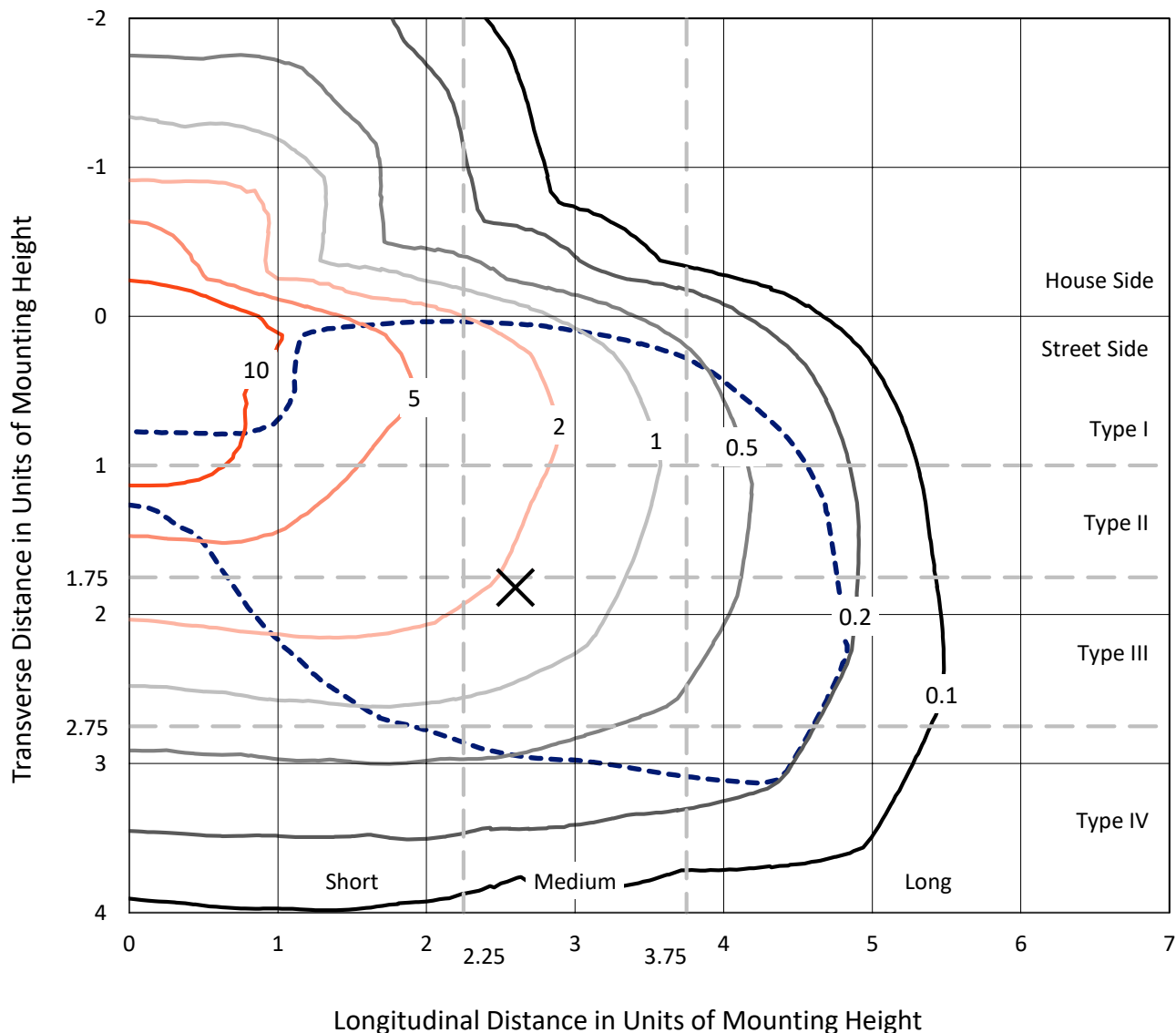
Input Watts (W): 501
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

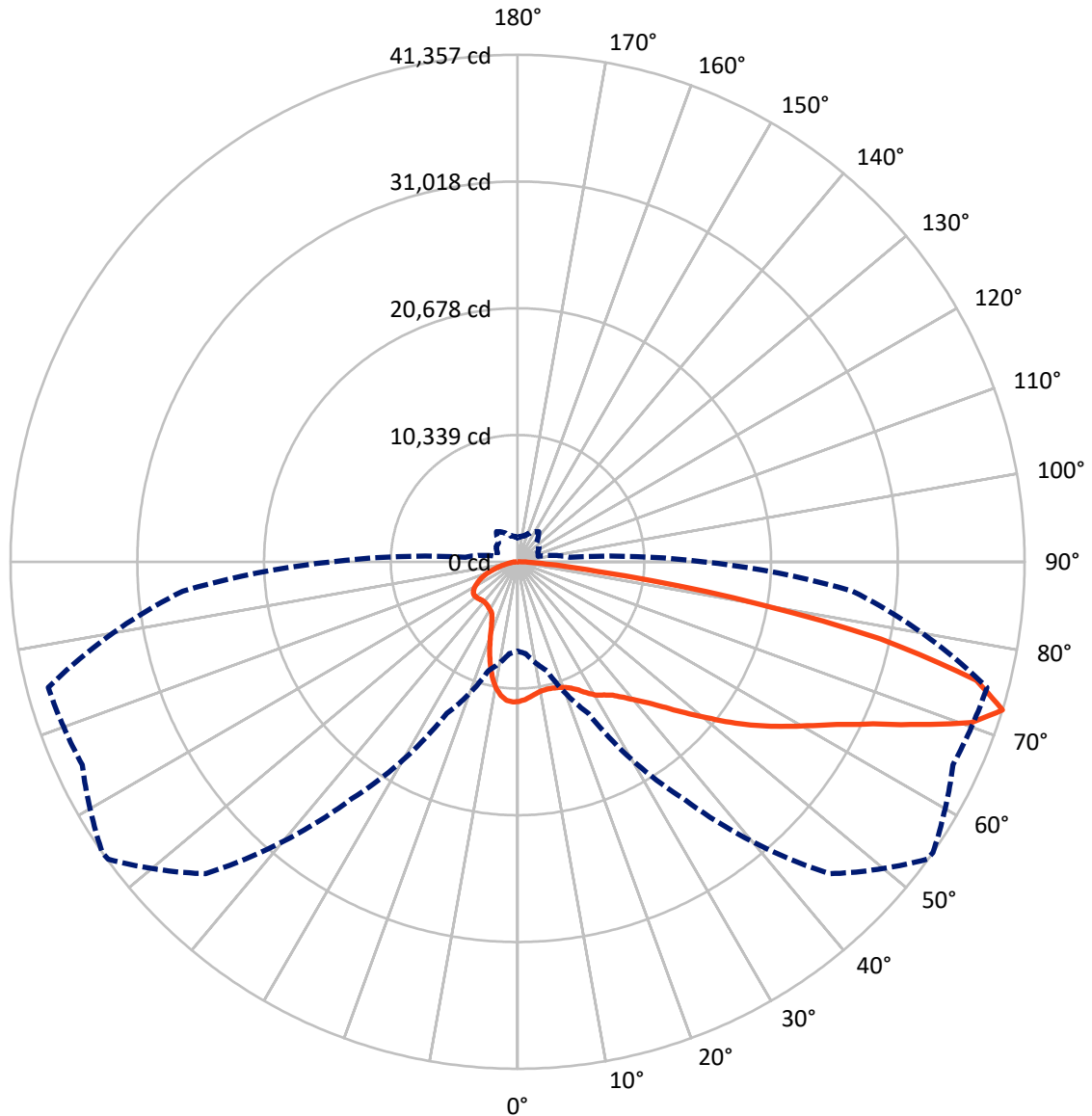
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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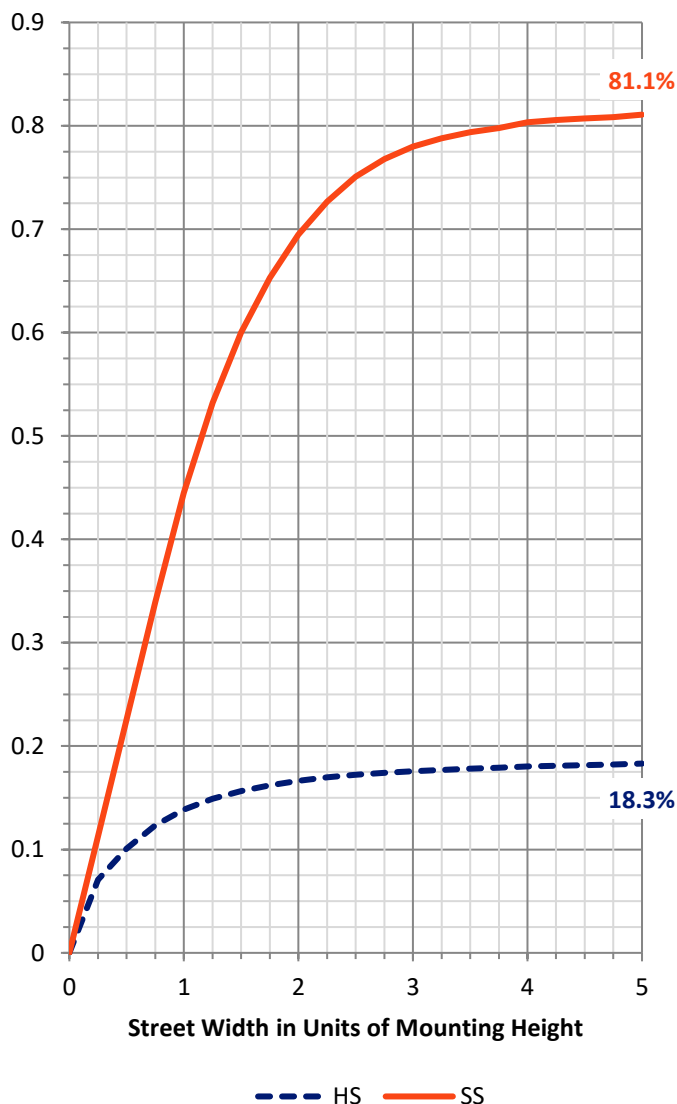
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12016.7	0.0	12016.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	52635.3	0.0	52635.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	64652.0	0.0	64652.0
	% 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°	4529.4	7.0
30°-40°	6700.2	10.4
40°-50°	9352.0	14.5
50°-60°	12176.6	18.8
60°-70°	14964.7	23.1
70°-80°	11730.5	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°	64652.0	100.0
0°-180°	64652.0	100.0

Coefficient of Utilization

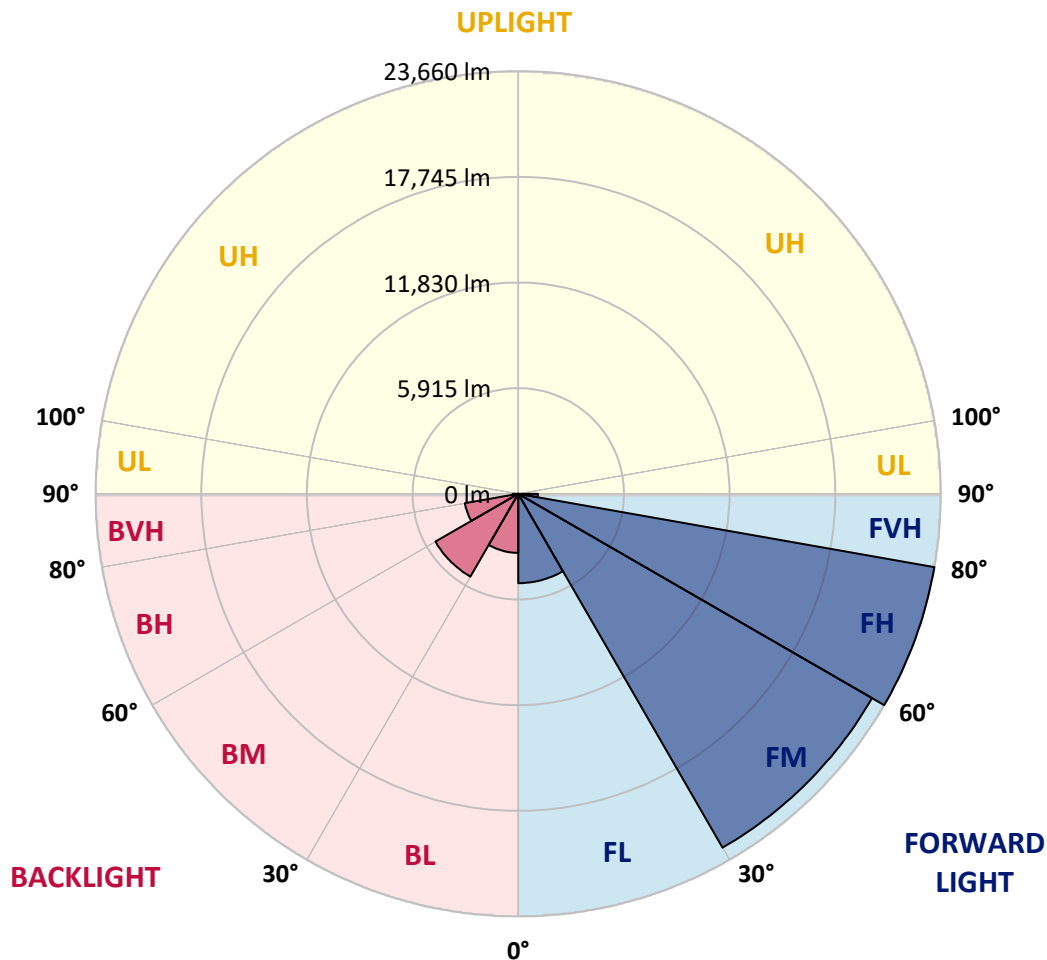


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5002.2	7.7			
FM (30°-60°)	22875.2	35.4			
FH (60°-80°)	23660.4	36.6			G5
FVH (80°-90°)	1097.5	1.7			G5
BL (0°-30°)	3306.3	5.1	B4/5000		
BM (30°-60°)	5353.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11403.2	11403.2	11403.2	11403.2	11403.2	11403.2	11403.2	11403.2	11403.2	11403.2	11403.2
2.5°	11032.0	11005.8	11038.5	11084.4	11134.6	11202.3	11241.6	11259.1	11326.8	11353.0	11409.8
5°	10521.0	10507.9	10562.5	10641.1	10752.5	10909.7	11036.4	11060.4	11239.4	11366.1	11481.8
7.5°	10149.8	10149.8	10213.1	10307.0	10431.5	10643.3	10822.4	10855.1	11158.6	11431.6	11645.6
10°	9855.0	9865.9	9940.2	10051.5	10197.8	10422.7	10660.8	10697.9	11136.8	11584.5	11925.1
12.5°	9658.5	9684.7	9752.4	9852.8	10034.0	10307.0	10608.4	10658.6	11182.7	11802.8	12261.4
15°	9782.9	9826.6	9833.1	9874.6	9975.1	10272.1	10638.9	10691.3	11280.9	12025.6	12643.6
17.5°	10328.8	10344.1	10276.4	10189.1	10141.0	10331.0	10730.6	10785.2	11398.9	12246.1	13010.4
20°	11158.6	11149.9	11003.6	10767.8	10523.2	10553.8	10881.3	10938.1	11558.3	12440.5	13377.3
22.5°	12206.8	12176.2	11951.3	11516.8	11099.7	10925.0	11145.5	11193.6	11798.5	12717.8	13770.3
25°	13477.7	13410.0	13113.0	12530.0	11916.4	11466.5	11543.0	11588.8	12147.9	13027.9	14130.6
27.5°	14818.5	14750.8	14373.0	13667.7	12851.0	12150.0	12091.1	12130.4	12545.3	13257.2	14397.1
30°	16220.4	16148.4	15803.4	15012.9	13842.4	12857.6	12602.1	12617.4	12824.8	13381.6	14615.4
32.5°	17628.9	17561.2	17174.7	16257.6	14919.0	13617.5	12971.1	12951.5	12992.9	13510.5	14862.2
35°	19057.1	19083.3	18631.2	17615.8	16111.3	14462.6	13407.8	13366.4	13274.6	13774.7	15211.6
37.5°	20585.6	20568.2	19982.9	18921.7	17358.1	15379.7	14034.6	14028.0	13711.4	14274.8	15759.7
40°	21607.6	21618.5	21262.6	20258.1	18618.1	16395.1	14838.2	14822.9	14408.0	15023.8	16478.1
42.5°	22007.2	22079.3	22171.0	21533.4	19937.1	17572.1	15796.8	15775.0	15379.7	16098.2	17323.2
45°	22035.6	22179.7	22747.5	22666.7	21273.5	18919.5	17021.9	16960.7	16676.8	17526.3	18332.1
47.5°	21791.0	21939.5	22882.9	23341.4	22468.0	20341.1	18454.4	18406.3	18161.7	19312.5	19423.9
50°	21256.0	21398.0	22603.4	23671.2	23450.6	21708.0	20105.2	19978.6	19847.5	21376.1	20673.0
52.5°	20253.7	20526.7	22229.9	23749.8	24038.0	22922.2	21841.3	21758.3	21830.3	23553.3	21924.2
55°	17880.0	18185.8	21266.9	23684.3	24472.6	23942.0	23577.3	23572.9	23946.3	25837.4	23267.2
57.5°	16550.2	16766.4	19306.0	23572.9	24987.9	24955.2	25295.8	25337.3	26064.5	28324.6	24673.5
60°	15799.0	16026.1	18312.4	23160.2	25787.2	26265.4	27049.4	27132.3	28217.6	31078.3	26365.9
62.5°	15115.5	15364.4	17696.6	22319.5	26728.3	28139.0	29150.1	29224.3	30497.4	33908.3	28001.4
65°	13947.2	14228.9	16794.7	21767.0	27584.4	30582.6	31820.7	31870.9	33115.6	36873.8	29252.7
67.5°	12296.4	12554.0	15093.7	20546.3	28217.6	33550.2	35371.4	35399.8	35712.0	38967.9	29892.5
70°	10368.2	10466.4	12669.8	18026.3	27468.6	36325.7	39262.7	39269.3	38079.2	40308.7	29787.7
72.5°	7284.8	7516.3	9197.7	13645.9	23605.7	35987.2	41282.6	41356.9	39179.7	39631.8	27407.5
75°	4467.8	4712.4	5769.3	8269.6	14975.7	28302.8	38142.5	38657.8	37116.2	35336.4	22389.4
77.5°	2987.3	3079.0	3764.7	4821.6	6784.7	16283.8	29324.8	30294.3	30833.7	25769.7	14318.4
80°	1666.2	1840.8	2496.0	2996.0	3017.9	6470.3	17583.1	17810.2	17155.1	10261.2	4417.6
82.5°	882.2	978.3	1666.2	1760.1	1646.5	2166.2	6553.2	6559.8	5481.1	2751.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11403.2	11403.2	11403.2	11403.2	11403.2	11403.2	11403.2	11403.2	11403.2	11403.2	11403.2
2.5°	11431.6	11451.3	11475.3	11449.1	11440.3	11405.4	11346.4	11333.3	11302.8	11305.0	11322.4
5°	11532.1	11564.8	11551.7	11451.3	11331.2	11163.0	10988.3	10839.8	10741.6	10735.0	10728.5
7.5°	11724.2	11746.1	11643.4	11357.4	11021.1	10632.4	10265.5	9944.5	9750.2	9702.1	9691.2
10°	12025.6	12021.2	11739.5	11163.0	10492.6	9798.2	9208.6	8763.1	8503.3	8426.9	8407.2
12.5°	12361.9	12311.6	11772.3	10809.3	9745.8	8782.8	8036.0	7540.3	7269.5	7182.2	7160.3
15°	12709.1	12584.6	11691.5	10280.8	8828.7	7688.8	6904.8	6446.2	6299.9	6251.9	6243.2
17.5°	13032.3	12792.0	11460.0	9564.6	7782.7	6599.1	5987.7	5804.2	5839.2	5902.5	5904.7
20°	13348.9	12931.8	11088.8	8660.5	6679.9	5701.6	5494.2	5629.5	5795.5	5924.3	5941.8
22.5°	13661.2	13030.1	10610.5	7616.7	5692.9	5197.2	5343.5	5590.2	5780.2	5920.0	5944.0
25°	13923.2	13054.1	9951.1	6503.0	5007.2	5007.2	5271.4	5505.1	5692.9	5830.4	5854.5
27.5°	14019.3	12892.5	9020.8	5472.3	4662.2	4919.9	5171.0	5365.3	5524.7	5671.0	5697.2
30°	14056.4	12593.3	7946.4	4644.7	4520.2	4826.0	5035.6	5201.5	5352.2	5489.8	5513.8
32.5°	14063.0	12233.0	6806.6	4175.2	4422.0	4727.7	4867.4	5013.7	5175.3	5229.9	5238.7
35°	14104.4	11807.2	5605.5	3935.0	4330.3	4636.0	4747.3	4852.2	4590.1	4609.8	4627.2
37.5°	14224.5	11385.8	4601.0	3799.6	4271.3	4587.9	4721.1	4341.2	4135.9	4087.9	4081.3
40°	14449.5	10935.9	3856.4	3690.4	4249.5	4612.0	4553.0	4052.9	3699.2	3434.9	3395.6
42.5°	14761.7	10451.1	3380.3	3618.4	4264.7	4727.7	4319.3	3775.6	3188.2	3017.9	2996.0
45°	15113.3	9942.3	3122.7	3568.1	4317.2	4817.2	4271.3	3406.6	2950.2	2821.3	2810.4
47.5°	15454.0	9320.0	2989.5	3546.3	4389.2	4745.2	4068.2	3293.0	2836.6	2768.9	2775.5
50°	15844.8	8758.8	2908.7	3522.3	4452.5	4699.3	3838.9	3234.0	2792.9	2875.9	2963.3
52.5°	16174.6	8177.9	2836.6	3474.2	4476.6	4618.5	3780.0	3245.0	2792.9	2952.3	3035.3
55°	16565.5	7739.0	2753.6	3373.8	4430.7	4389.2	3738.5	3310.5	2825.7	2725.2	2734.0
57.5°	17069.9	7594.9	2661.9	3216.6	4277.8	4055.1	3718.8	3373.8	2806.0	2742.7	2764.5
60°	17768.7	7747.7	2624.8	3011.3	4039.8	3793.1	3721.0	3341.0	2668.5	2559.3	2561.5
62.5°	18434.7	7918.1	2622.6	2882.5	3747.2	3559.4	3670.8	3234.0	2598.6	2535.3	2559.3
65°	18653.1	7745.5	2517.8	2738.3	3417.5	3279.9	3579.1	3120.5	2546.2	2450.1	2445.7
67.5°	18360.5	7210.5	2306.0	2504.7	3039.7	2954.5	3459.0	2985.1	2463.2	2384.6	2371.5
70°	17491.3	6016.1	2043.9	2196.8	2609.5	2587.7	3269.0	2827.9	2351.8	2284.1	2227.4
72.5°	15152.6	4286.6	1722.9	1827.7	2124.7	2194.6	3006.9	2622.6	2194.6	2048.3	1961.0
75°	12444.8	3172.9	1415.0	1436.9	1613.7	1803.7	2646.6	2382.4	2009.0	1760.1	1692.4
77.5°	7621.1	1941.3	1126.8	1135.5	1157.4	1439.1	2179.3	2113.8	1773.2	1467.4	1419.4
80°	2467.6	1059.1	814.5	856.0	790.5	1054.7	1685.8	1799.4	1522.0	1227.2	1174.8
82.5°	939.0	618.0	550.3	578.7	548.1	707.5	1229.4	1441.2	1246.9	1008.9	821.1
85°	454.2	349.4	325.4	364.7	338.5	362.5	786.1	1061.3	945.5	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)