

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: P321613

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321613  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
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-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48633 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

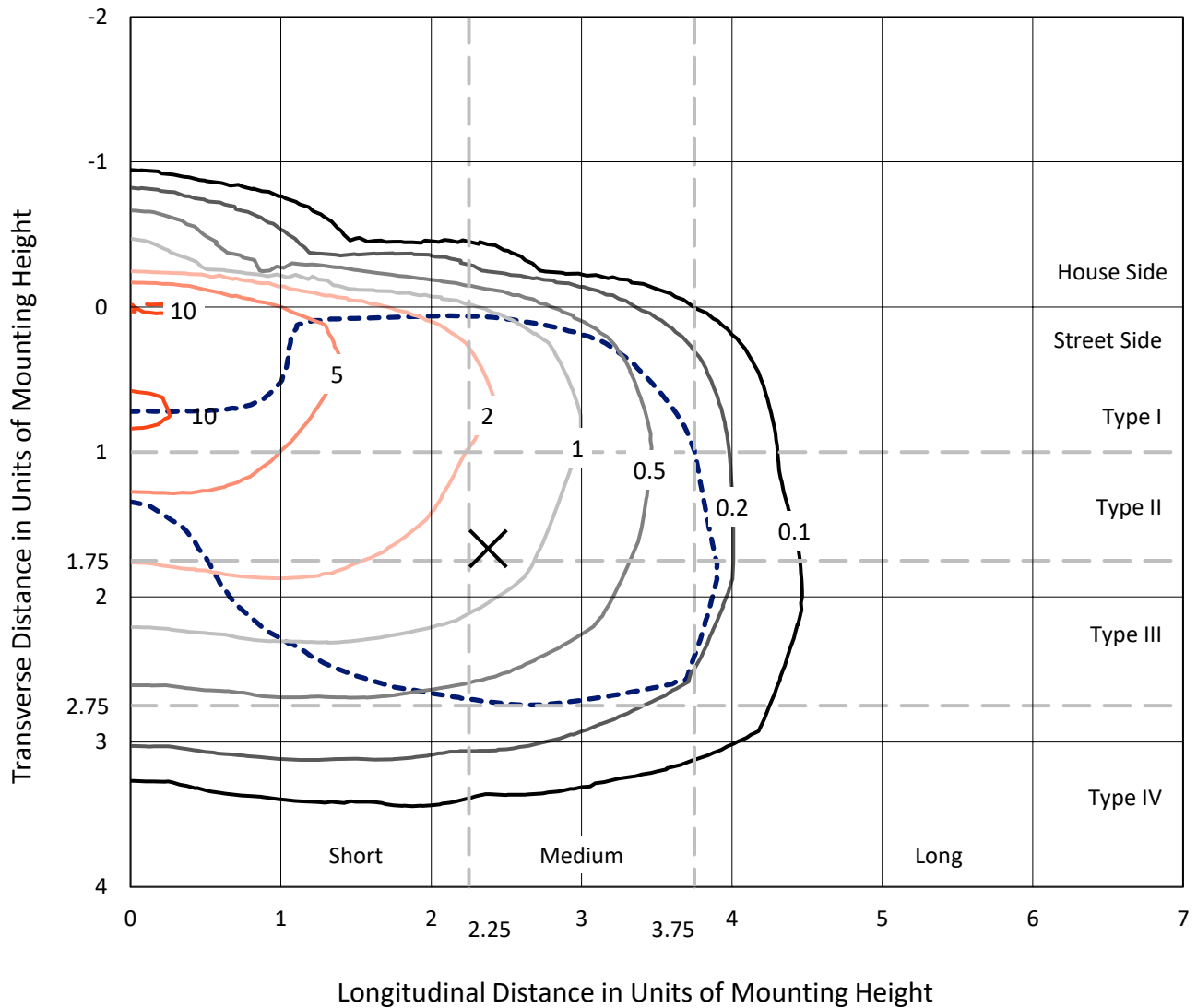
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

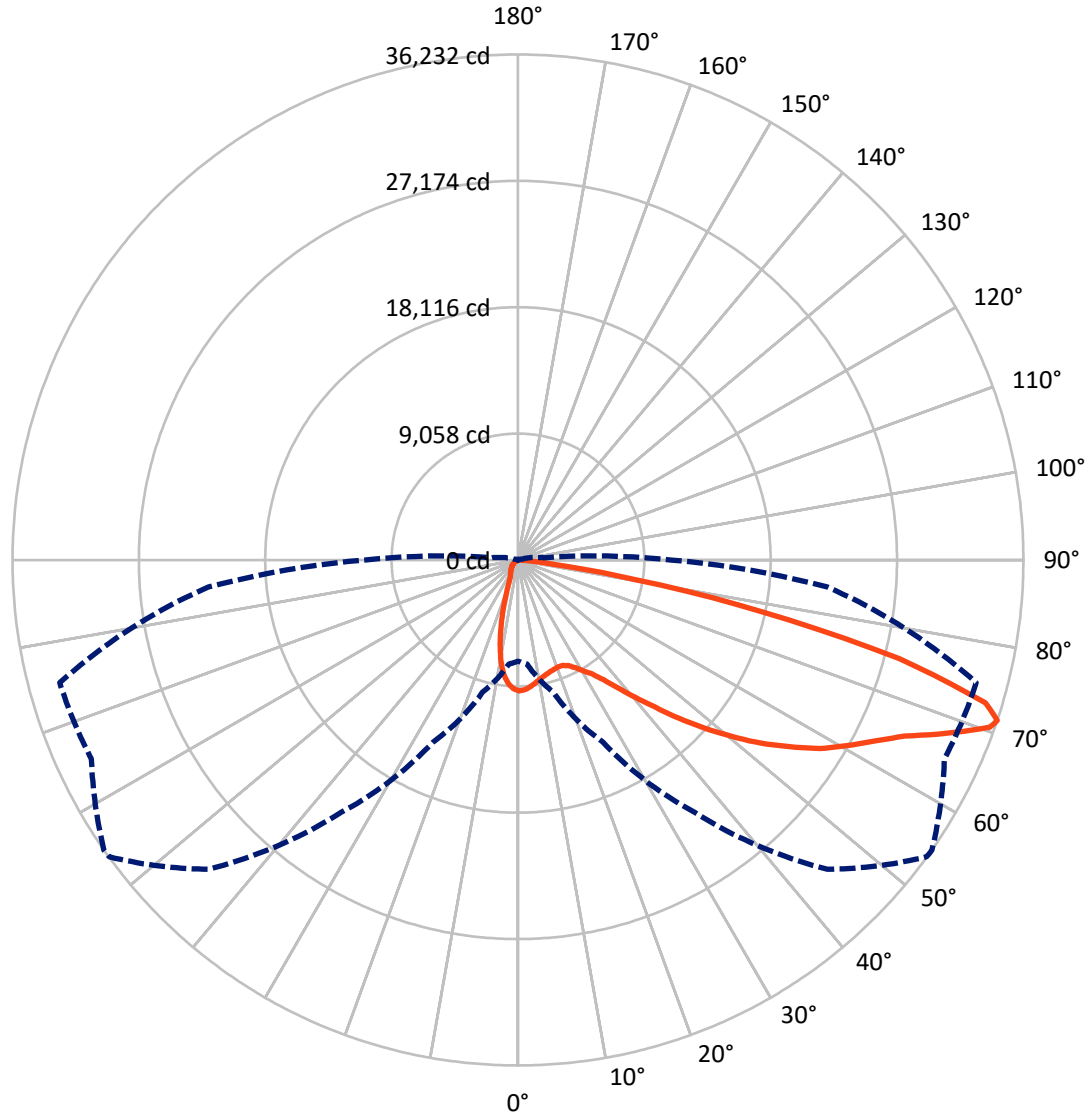
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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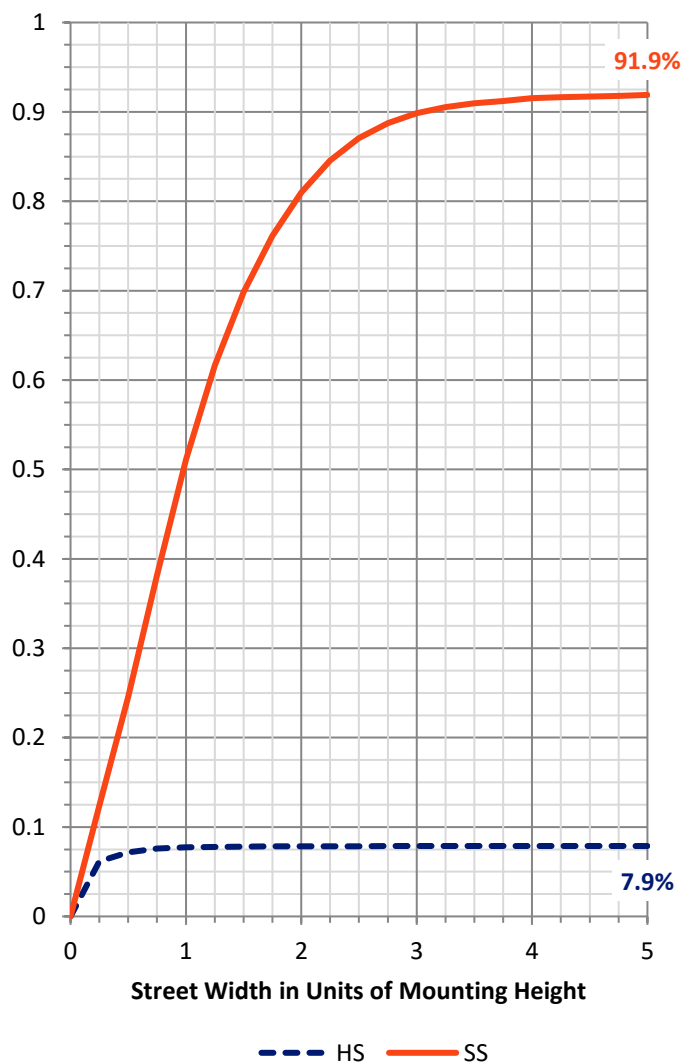
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3850.4	0.0	3850.4
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	44782.6	0.0	44782.6
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	48633.0	0.0	48633.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	799.7	1.6
10°-20°	1805.4	3.7
20°-30°	2901.3	6.0
30°-40°	4929.4	10.1
40°-50°	7651.1	15.7
50°-60°	10286.6	21.2
60°-70°	12584.0	25.9
70°-80°	7357.6	15.1
80°-90°	318.0	0.7
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°	48633.0	100.0
0°-180°	48633.0	100.0

**Coefficient of Utilization**

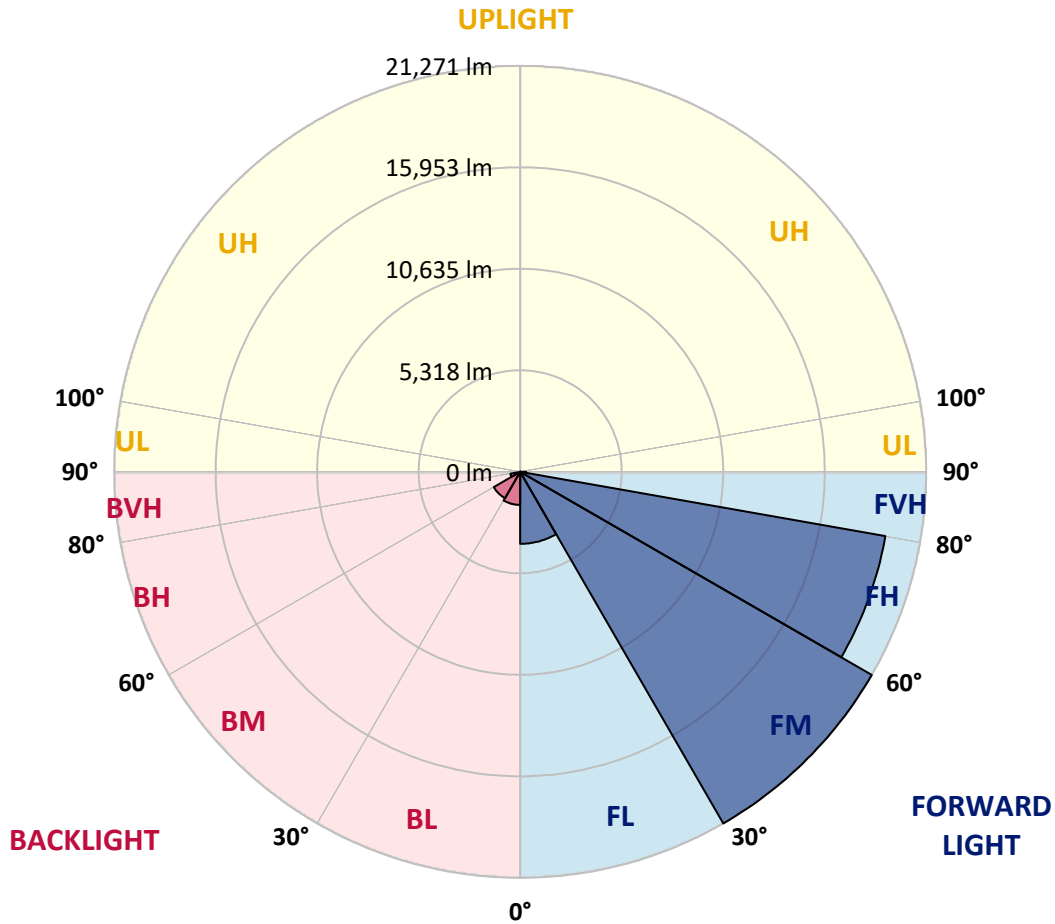


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3773.2	7.8			
FM (30°-60°)	21270.7	43.7			
FH (60°-80°)	19425.7	39.9			G5
FVH (80°-90°)	313.0	0.6			G3/500
BL (0°-30°)	1733.1	3.6	B3/2500		
BM (30°-60°)	1596.4	3.3	B2/2500		
BH (60°-80°)	515.9	1.1	B2/1000		G2/1000
BVH (80°-90°)	5.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9379.0	9379.0	9379.0	9379.0	9379.0	9379.0	9379.0	9379.0	9379.0	9379.0	9379.0
2.5°	9103.9	9114.8	9154.1	9171.6	9213.1	9283.0	9317.9	9320.1	9376.9	9398.7	9416.2
5°	8459.7	8525.2	8590.7	8660.6	8787.3	8955.4	9121.4	9136.7	9320.1	9455.5	9527.5
7.5°	7905.0	7964.0	8042.6	8154.0	8333.0	8597.3	8874.6	8907.4	9254.6	9562.5	9724.1
10°	7335.1	7383.1	7496.7	7660.5	7907.2	8261.0	8634.4	8689.0	9195.6	9706.6	9990.5
12.5°	6725.8	6754.2	6891.8	7127.6	7490.1	7940.0	8431.3	8503.4	9158.5	9872.6	10304.9
15°	6262.9	6276.0	6407.0	6651.6	7066.5	7651.7	8274.1	8361.4	9167.2	10071.3	10647.8
17.5°	6145.0	6151.5	6221.4	6389.5	6756.4	7394.1	8149.6	8256.6	9193.4	10265.6	10992.8
20°	6623.2	6577.3	6505.3	6479.1	6636.3	7239.0	8075.4	8195.5	9228.4	10438.1	11302.9
22.5°	7935.6	7800.2	7501.1	7101.4	6859.0	7249.9	8095.0	8215.1	9339.7	10650.0	11661.0
25°	9883.5	9695.7	9186.9	8400.7	7645.2	7564.4	8258.8	8381.1	9555.9	10903.3	12003.9
27.5°	12100.0	11914.3	11292.0	10169.6	8881.2	8186.7	8634.4	8748.0	9876.9	11128.2	12265.9
30°	14222.5	14170.1	13436.4	12161.1	10436.0	9195.6	9119.2	9215.3	10115.0	11263.6	12473.4
32.5°	16021.9	15938.9	15349.3	14109.0	12215.7	10407.6	9689.1	9717.5	10294.0	11438.3	12744.2
35°	17690.3	17587.6	17070.1	15897.4	14041.3	11888.1	10567.0	10525.5	10684.9	11789.9	13137.2
37.5°	19146.8	19240.7	18666.4	17550.5	15679.1	13427.7	11750.6	11626.1	11296.3	12362.0	13707.2
40°	20365.3	20365.3	20066.1	19135.9	17447.9	15019.6	13089.2	12925.4	12215.7	13244.2	14430.0
42.5°	20804.2	20898.1	21009.5	20483.2	19031.1	16674.8	14580.7	14410.3	13510.6	14495.5	15342.8
45°	20830.4	20978.9	21548.9	21546.7	20461.4	18319.2	16262.1	16181.3	15170.3	16102.7	16473.9
47.5°	20461.4	20647.0	21586.0	22118.8	21594.7	19850.0	18100.8	18000.3	17120.3	18072.4	17657.5
50°	19891.4	20096.7	21188.6	22343.8	22365.6	21182.0	20037.8	19887.1	19266.9	20323.8	18880.4
52.5°	18871.7	19269.1	20832.6	22396.2	22872.2	22332.8	21880.8	21815.3	21669.0	22492.2	19854.3
55°	16690.1	17131.2	19939.5	22413.6	23341.7	23352.6	23608.1	23625.6	23920.4	24518.7	20579.3
57.5°	15659.4	15908.4	18380.3	22496.6	24038.3	24510.0	25368.2	25503.6	25960.0	26442.6	21406.9
60°	15010.8	15305.6	17611.6	22383.1	25132.4	26027.7	26999.4	27045.3	27534.4	28427.6	22527.2
62.5°	14493.3	14783.7	17126.9	21946.3	26361.8	27853.3	28593.5	28597.9	28964.8	30792.5	23800.3
65°	13215.8	13460.4	16146.4	21455.0	27174.1	29659.2	30445.3	30416.9	30716.1	33286.3	25278.7
67.5°	11368.4	11556.2	14143.9	19592.3	26868.4	31301.3	33240.5	33146.6	32784.1	35441.7	25859.5
70°	8789.4	8857.1	11147.9	16327.6	24003.4	31932.4	35941.7	35893.7	34052.8	35055.1	23730.4
71°	7265.2	7488.0	9824.5	14410.3	22083.9	31349.4	36203.8	36232.2	33734.0	34002.6	22265.1
72.5°	4218.9	4408.9	7121.1	11067.1	18749.4	28916.7	34845.5	35050.8	32244.7	30927.9	19018.0
75°	904.1	967.4	2640.1	5356.6	10313.7	20267.0	27503.9	28235.4	26281.0	21040.1	11462.3
77.5°	628.9	679.1	1131.2	2430.5	3408.8	10014.5	17085.4	17910.8	15700.9	7907.2	3668.6
80°	497.9	554.7	882.2	1201.0	921.5	3229.7	8003.3	8507.7	5236.5	1764.4	618.0
82.5°	277.3	329.7	687.9	648.6	353.8	613.6	2240.5	2533.1	1048.2	355.9	146.3
85°	80.8	98.3	443.3	471.7	150.7	117.9	382.1	473.9	198.7	93.9	65.5
87.5°	0.0	0.0	214.0	181.2	43.7	17.5	34.9	39.3	39.3	39.3	43.7
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°	9379.0	9379.0	9379.0	9379.0	9379.0	9379.0	9379.0	9379.0	9379.0	9379.0	9379.0
2.5°	9416.2	9431.5	9376.9	9304.8	9228.4	9134.5	9036.2	8959.8	8957.6	8920.5	8883.3
5°	9531.9	9523.2	9372.5	9143.2	8872.4	8590.7	8322.1	8018.6	7918.1	7793.7	7752.2
7.5°	9745.9	9684.8	9365.9	8863.7	8269.7	7680.1	7070.9	6457.2	6195.2	5959.4	5917.9
10°	10014.5	9898.8	9324.5	8444.4	7354.7	6267.3	5347.9	4513.7	4146.9	3865.2	3852.1
12.5°	10294.0	10117.1	9208.7	7811.1	6155.9	4627.3	3568.2	2747.1	2441.4	2244.9	2262.3
15°	10586.6	10322.4	8959.8	6957.3	4791.1	3140.2	2192.4	1709.8	1587.6	1537.3	1550.4
17.5°	10885.8	10464.4	8612.6	5928.8	3443.7	2026.5	1517.7	1382.3	1382.3	1393.2	1397.6
20°	11145.7	10540.8	8101.6	4775.8	2334.4	1476.2	1327.7	1308.0	1319.0	1336.4	1338.6
22.5°	11403.4	10545.2	7435.5	3607.5	1633.4	1292.8	1264.4	1255.6	1262.2	1281.8	1284.0
25°	11613.0	10492.7	6601.4	2565.9	1303.7	1218.5	1205.4	1201.0	1205.4	1229.4	1229.4
27.5°	11698.2	10302.8	5583.8	1803.7	1168.3	1135.5	1131.2	1135.5	1142.1	1159.6	1161.7
30°	11706.9	9970.8	4474.4	1305.9	1059.1	1024.2	1032.9	1048.2	1041.6	1037.3	1041.6
32.5°	11728.7	9586.5	3393.5	1074.4	967.4	912.8	901.9	901.9	875.7	860.4	851.6
35°	11800.8	9134.5	2461.0	965.2	873.5	810.2	768.7	720.6	670.4	644.2	637.6
37.5°	11914.3	8660.6	1762.3	893.1	790.5	718.4	639.8	554.7	482.6	462.9	462.9
40°	12121.8	8171.5	1303.7	836.4	725.0	635.5	517.5	406.2	340.7	329.7	329.7
42.5°	12449.3	7656.1	1039.4	786.1	668.2	550.3	395.3	294.8	246.8	240.2	238.0
45°	12790.0	7088.3	908.4	738.1	607.1	452.0	292.6	218.4	190.0	183.4	183.4
47.5°	13130.7	6483.4	845.1	692.2	548.1	351.6	218.4	172.5	159.4	159.4	161.6
50°	13418.9	5852.4	799.2	642.0	471.7	266.4	172.5	146.3	141.9	150.7	152.9
52.5°	13491.0	5232.2	742.5	578.7	377.8	203.1	141.9	128.8	128.8	128.8	128.8
55°	13447.3	4751.8	668.2	500.1	279.5	161.6	122.3	113.6	111.4	111.4	111.4
57.5°	13595.8	4467.9	535.0	388.7	200.9	131.0	107.0	100.5	96.1	93.9	93.9
60°	13895.0	4282.3	382.1	279.5	150.7	109.2	91.7	85.2	78.6	74.2	74.2
62.5°	14292.4	4120.7	283.9	207.5	115.7	87.3	76.4	69.9	61.1	56.8	56.8
65°	14598.1	3832.4	216.2	155.0	87.3	69.9	59.0	56.8	43.7	39.3	37.1
67.5°	14130.8	3199.1	174.7	113.6	65.5	54.6	45.9	43.7	26.2	21.8	21.8
70°	12119.6	2227.4	139.8	83.0	48.0	43.7	37.1	28.4	19.7	17.5	17.5
71°	10990.6	1860.5	126.7	69.9	41.5	41.5	34.9	24.0	17.5	15.3	15.3
72.5°	9130.1	1321.1	107.0	54.6	37.1	43.7	37.1	21.8	17.5	15.3	13.1
75°	5299.9	552.5	74.2	37.1	28.4	52.4	48.0	19.7	13.1	10.9	10.9
77.5°	1594.1	203.1	41.5	24.0	21.8	45.9	54.6	17.5	6.6	2.2	2.2
80°	290.4	87.3	26.2	15.3	15.3	28.4	41.5	8.7	0.0	0.0	0.0
82.5°	102.6	43.7	15.3	8.7	6.6	13.1	19.7	0.0	0.0	0.0	0.0
85°	59.0	30.6	8.7	4.4	0.0	2.2	4.4	0.0	0.0	0.0	0.0
87.5°	39.3	8.7	0.0	0.0	0.0	0.0	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)