

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: P319993

Luminaire Tested: **GAN-SA9A-740-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319993  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9A-740-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39589 lumens  
Efficiency: N/A  
Efficacy: 136.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

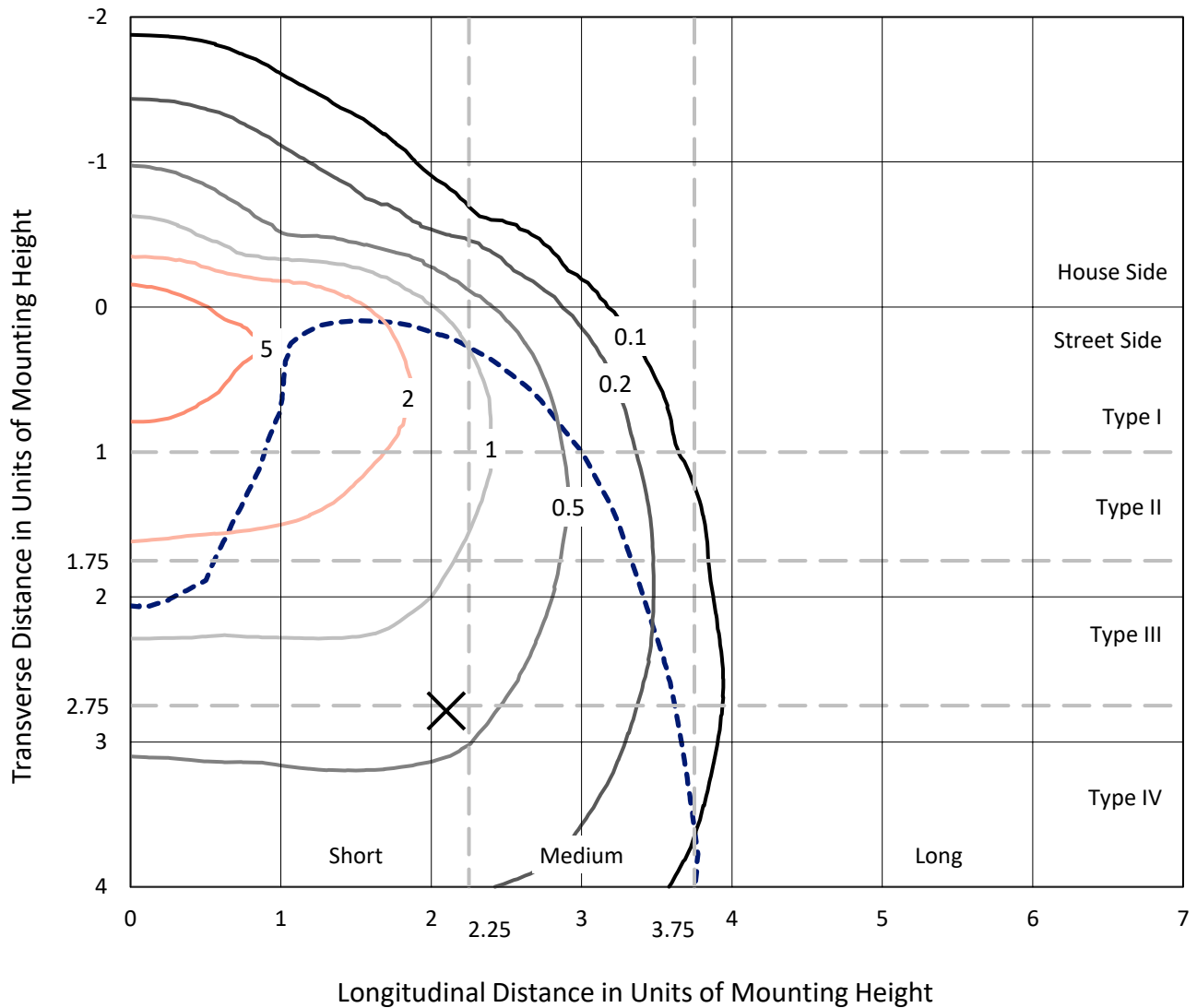
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

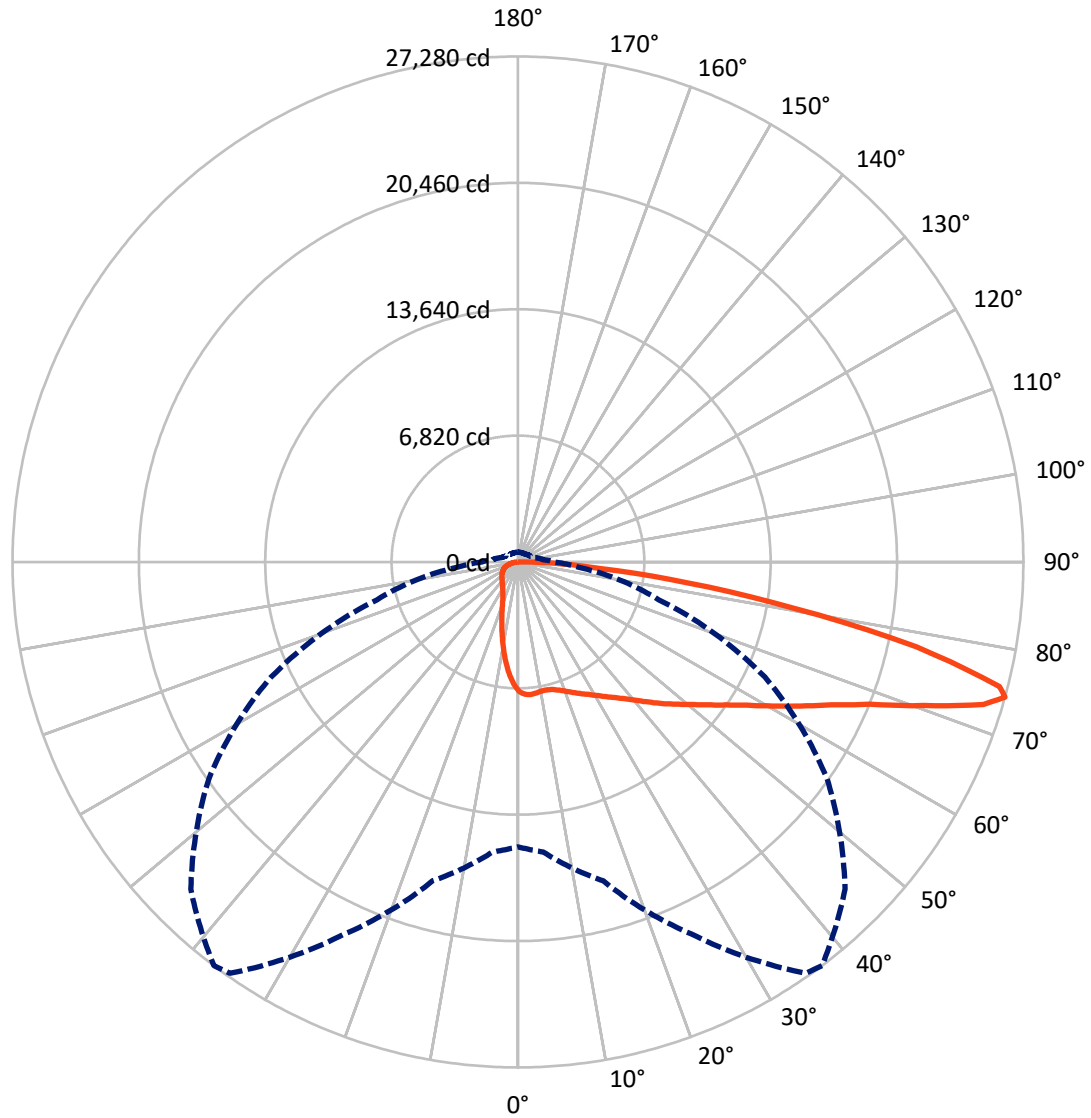
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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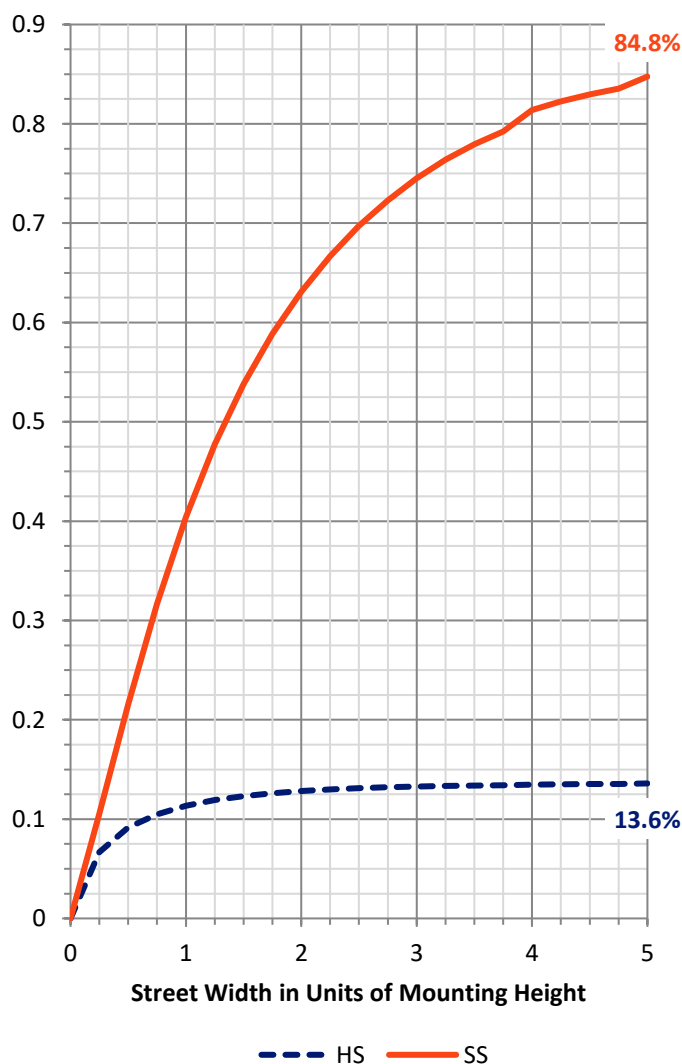
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5447.2	0.0	5447.2
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	34141.8	0.0	34141.8
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	39589.0	0.0	39589.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	614.3	1.6
10°-20°	1574.5	4.0
20°-30°	2426.0	6.1
30°-40°	3527.8	8.9
40°-50°	5192.3	13.1
50°-60°	7291.7	18.4
60°-70°	9229.0	23.3
70°-80°	8126.5	20.5
80°-90°	1606.8	4.1
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°	39589.0	100.0
0°-180°	39589.0	100.0

**Coefficient of Utilization**



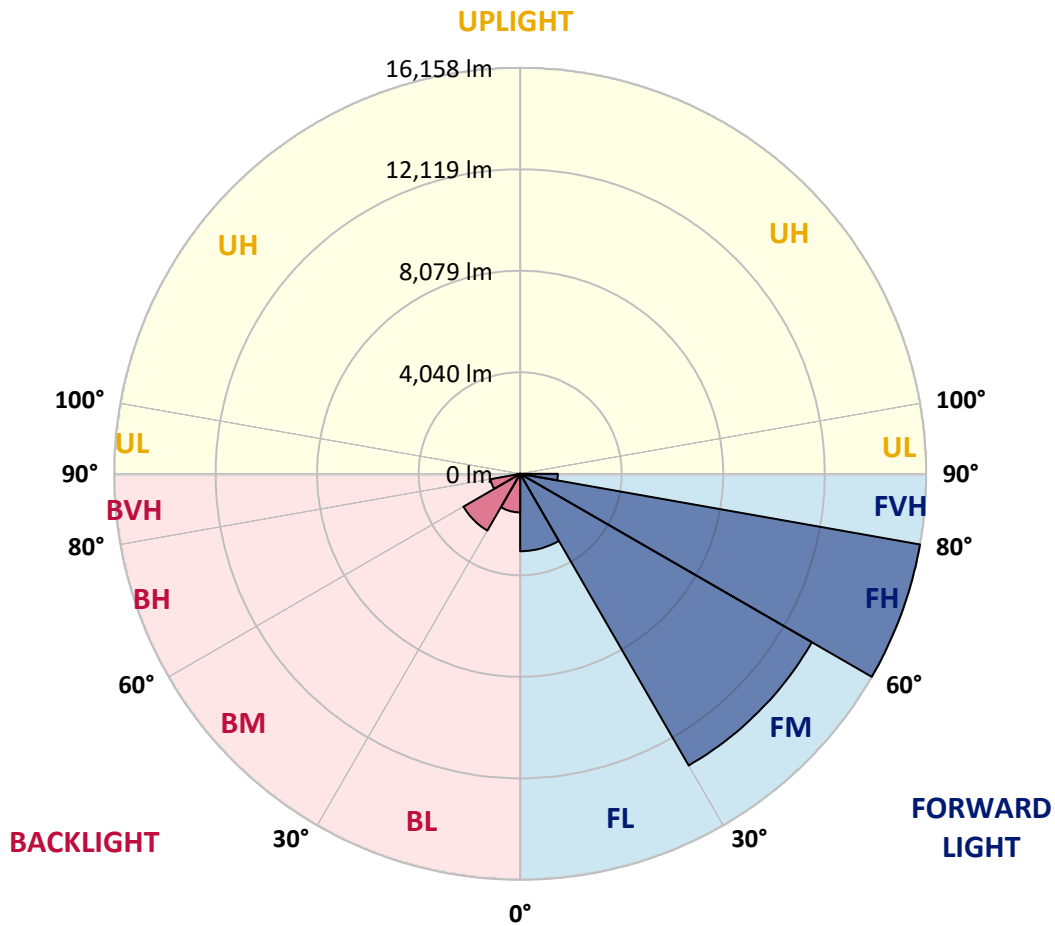
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3080.5	7.8			
FM (30°-60°)	13405.1	33.9			
FH (60°-80°)	16158.2	40.8			G5
FVH (80°-90°)	1498.0	3.8			G5
BL (0°-30°)	1534.3	3.9	B3/2500		
BM (30°-60°)	2606.7	6.6	B3/5000		
BH (60°-80°)	1197.3	3.0	B3/2500		G3/2500
BVH (80°-90°)	108.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	6975.4	6975.4	6975.4	6975.4	6975.4	6975.4	6975.4	6975.4	6975.4	6975.4	6975.4
2.5°	7213.9	7215.3	7213.9	7202.7	7176.2	7153.9	7135.8	7109.3	7050.7	7006.1	6939.2
5°	7282.2	7273.9	7268.3	7247.4	7205.5	7180.4	7145.6	7095.4	6999.1	6909.9	6801.1
7.5°	7250.2	7240.4	7227.8	7202.7	7155.3	7134.4	7085.6	7020.1	6904.3	6787.2	6631.0
10°	7151.1	7148.3	7142.8	7137.2	7096.8	7080.0	7035.4	6965.7	6851.3	6709.1	6526.4
12.5°	7041.0	7047.9	7070.3	7099.5	7081.4	7073.0	7045.2	6997.7	6880.6	6727.2	6506.9
15°	6971.2	6990.8	7050.7	7127.4	7142.8	7140.0	7133.0	7102.3	6978.2	6808.1	6551.5
17.5°	6947.5	6979.6	7094.0	7220.9	7265.5	7275.3	7278.0	7225.0	7087.0	6907.1	6597.5
20°	6990.8	7031.2	7198.6	7372.9	7444.0	7449.6	7437.0	7345.0	7190.2	6992.2	6622.6
22.5°	7121.9	7158.1	7367.3	7563.9	7644.8	7653.2	7615.5	7476.1	7299.0	7092.6	6657.5
25°	7374.3	7418.9	7628.1	7824.7	7866.5	7867.9	7813.5	7640.6	7441.2	7233.4	6732.8
27.5°	7703.4	7748.0	7936.3	8128.7	8106.4	8093.8	8019.9	7847.0	7626.7	7427.3	6866.7
30°	8070.1	8118.9	8297.4	8434.1	8381.1	8356.0	8296.0	8072.9	7884.7	7692.2	7071.7
32.5°	8449.4	8494.1	8650.3	8743.7	8676.8	8665.6	8575.0	8371.4	8220.7	8096.6	7403.5
35°	8838.5	8870.6	9024.0	9077.0	8987.7	8984.9	8959.8	8773.0	8678.1	8736.7	7886.1
37.5°	9236.0	9244.3	9375.4	9378.2	9351.7	9362.9	9389.4	9272.2	9298.7	9481.4	8513.6
40°	9590.2	9612.5	9707.3	9736.6	9782.6	9821.7	9954.1	9877.4	10082.4	10406.0	9294.5
42.5°	9852.3	9895.6	10047.6	10122.9	10272.1	10333.5	10520.3	10591.4	11004.2	11489.5	10223.3
45°	10074.1	10141.0	10385.0	10539.8	10792.3	10899.6	11167.4	11405.8	12045.9	12665.1	11200.8
47.5°	10313.9	10399.0	10704.4	11000.0	11343.1	11464.4	11951.1	12308.1	13157.4	13847.7	12122.6
50°	10666.7	10732.3	11030.7	11495.1	11923.2	12079.4	12753.0	13264.7	14286.9	14974.4	12921.7
52.5°	11159.0	11133.9	11386.3	12037.6	12612.1	12804.6	13609.2	14282.8	15431.8	15993.8	13596.6
55°	11654.1	11612.2	11789.3	12605.1	13415.4	13617.6	14551.9	15304.9	16521.0	16911.4	14114.0
57.5°	12204.9	12125.4	12274.6	13245.2	14330.2	14571.4	15607.6	16391.3	17592.0	17653.3	14443.1
60°	12772.5	12665.1	12832.4	14038.7	15491.8	15776.3	16843.1	17451.1	18601.6	18247.4	14549.1
62.5°	13268.9	13193.6	13451.6	14924.2	16801.3	17113.6	18056.3	18577.9	19597.3	18494.2	14167.0
65°	13702.6	13715.2	14161.4	15919.9	18261.3	18594.6	19448.1	19966.8	20381.0	18347.8	13273.1
67.5°	14220.0	14291.1	15052.5	17230.8	20099.3	20464.7	21472.9	21481.3	20818.9	17488.8	11513.2
70°	14974.4	15120.9	16278.3	19049.3	22712.7	23214.7	23992.9	22371.0	20203.9	15159.9	9058.9
72.5°	15643.8	15917.1	17582.2	21129.9	25897.8	26278.5	25466.9	21857.8	17633.8	11361.2	5643.7
74°	15371.9	15710.8	17819.3	22154.9	27097.1	27279.8	24969.0	20360.1	14702.5	7867.9	3279.9
75°	14786.2	15154.3	17473.4	22145.1	26945.1	26843.3	23766.9	18649.0	12108.7	5366.1	2182.4
77.5°	11933.0	12322.0	14723.4	18979.5	22093.5	21997.3	18257.2	12510.3	5303.4	1759.9	1108.6
80°	6937.8	7234.8	9139.7	12052.9	14897.7	15072.1	12006.9	6190.3	2086.2	988.7	751.7
82.5°	3081.9	3286.9	4415.1	6152.7	8990.5	9215.0	6287.9	3243.7	1288.5	601.0	451.8
85°	2022.1	2174.1	2680.3	2929.9	4281.2	4434.6	3077.7	2525.5	850.7	330.5	331.9
87.5°	1454.5	1600.9	1991.4	1739.0	1964.9	1860.3	1674.8	2337.2	341.7	188.3	111.6
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°	6975.4	6975.4	6975.4	6975.4	6975.4	6975.4	6975.4	6975.4	6975.4	6975.4	6975.4
2.5°	6909.9	6887.6	6837.4	6742.5	6689.6	6644.9	6571.0	6527.8	6508.3	6506.9	6515.2
5°	6738.4	6686.8	6557.1	6398.1	6271.2	6155.4	6011.8	5925.3	5864.0	5827.7	5837.5
7.5°	6538.9	6458.1	6254.5	6000.7	5797.1	5572.5	5350.8	5218.3	5115.1	5038.4	5052.4
10°	6402.3	6290.7	5993.7	5628.3	5289.4	4963.1	4657.7	4475.0	4330.0	4218.4	4226.8
12.5°	6356.3	6205.6	5794.3	5306.2	4830.6	4384.4	3985.6	3705.3	3556.0	3429.1	3438.9
15°	6363.2	6161.0	5626.9	5016.1	4417.9	3855.9	3372.0	3044.3	2842.0	2754.2	2755.6
17.5°	6368.8	6109.4	5451.2	4705.1	4009.3	3362.2	2836.5	2504.6	2313.5	2232.6	2234.0
20°	6350.7	6025.8	5233.7	4348.1	3582.5	2909.0	2400.0	2118.3	1973.3	1910.5	1910.5
22.5°	6327.0	5926.7	4988.2	3989.7	3161.4	2515.7	2087.6	1872.9	1789.2	1747.3	1745.9
25°	6338.1	5852.8	4737.2	3621.6	2773.7	2202.0	1879.8	1737.6	1681.8	1655.3	1653.9
27.5°	6398.1	5818.0	4505.7	3254.8	2434.8	1966.3	1740.4	1640.0	1603.7	1587.0	1587.0
30°	6506.9	5818.0	4264.5	2942.5	2153.2	1792.0	1633.0	1564.7	1539.6	1528.4	1528.4
32.5°	6696.5	5850.0	4031.6	2632.9	1928.6	1655.3	1543.7	1497.7	1478.2	1472.6	1472.6
35°	7022.8	5958.8	3804.3	2340.0	1747.3	1543.7	1458.7	1432.2	1418.2	1416.8	1421.0
37.5°	7481.6	6180.5	3590.9	2123.9	1619.0	1453.1	1387.6	1366.6	1358.3	1365.2	1370.8
40°	8059.0	6481.8	3397.1	1928.6	1521.4	1380.6	1322.0	1308.1	1303.9	1313.6	1322.0
42.5°	8756.2	6889.0	3238.1	1787.8	1446.1	1319.2	1266.2	1249.5	1245.3	1256.5	1267.6
45°	9510.7	7326.8	3126.5	1683.2	1387.6	1273.2	1217.4	1199.3	1190.9	1196.5	1209.1
47.5°	10196.8	7741.0	3081.9	1609.3	1331.8	1234.2	1174.2	1151.9	1137.9	1135.1	1144.9
50°	10775.5	8049.2	3102.8	1564.7	1287.1	1190.9	1132.4	1107.3	1086.3	1073.8	1080.8
52.5°	11196.7	8243.1	3122.3	1545.1	1252.3	1143.5	1086.3	1062.6	1034.7	1013.8	1013.8
55°	11502.1	8287.7	3079.1	1529.8	1225.8	1091.9	1034.7	1012.4	984.5	960.8	958.0
57.5°	11622.0	8162.2	2918.7	1507.5	1207.7	1043.1	980.4	963.6	939.9	912.0	910.6
60°	11460.2	7774.5	2609.2	1460.1	1184.0	1002.7	926.0	914.8	903.7	877.2	875.8
62.5°	10810.4	6923.8	2208.9	1363.8	1136.5	959.4	875.8	881.3	882.7	864.6	861.8
65°	9632.0	5755.2	1818.5	1238.3	1065.4	907.8	824.2	850.7	866.0	863.2	859.0
67.5°	7919.5	4479.2	1541.0	1105.9	972.0	836.7	768.4	799.1	811.6	821.4	818.6
70°	5877.9	3158.6	1274.6	966.4	859.0	753.0	695.9	711.2	702.8	714.0	718.2
72.5°	3277.1	1895.2	1038.9	827.0	741.9	655.4	615.0	612.2	594.1	594.1	594.1
74°	1966.3	1390.3	913.4	740.5	670.8	591.3	556.4	543.9	527.1	528.5	527.1
75°	1581.4	1195.1	838.1	683.3	620.6	553.6	518.8	502.0	489.5	489.5	488.1
77.5°	998.5	907.8	675.0	543.9	496.5	456.0	432.3	410.0	410.0	408.6	407.2
80°	754.4	722.4	525.7	411.4	380.7	350.0	334.7	324.9	324.9	329.1	327.7
82.5°	517.4	543.9	369.5	287.3	271.9	249.6	246.8	248.2	244.0	238.5	237.1
85°	377.9	408.6	249.6	181.3	165.9	152.0	163.2	168.7	161.8	149.2	143.6
87.5°	145.0	267.7	133.9	75.3	69.7	60.0	69.7	72.5	78.1	61.4	62.8
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)