

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: P319013

Luminaire Tested: **GAN-SA9C-730-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319013  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9C-730-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 57184 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

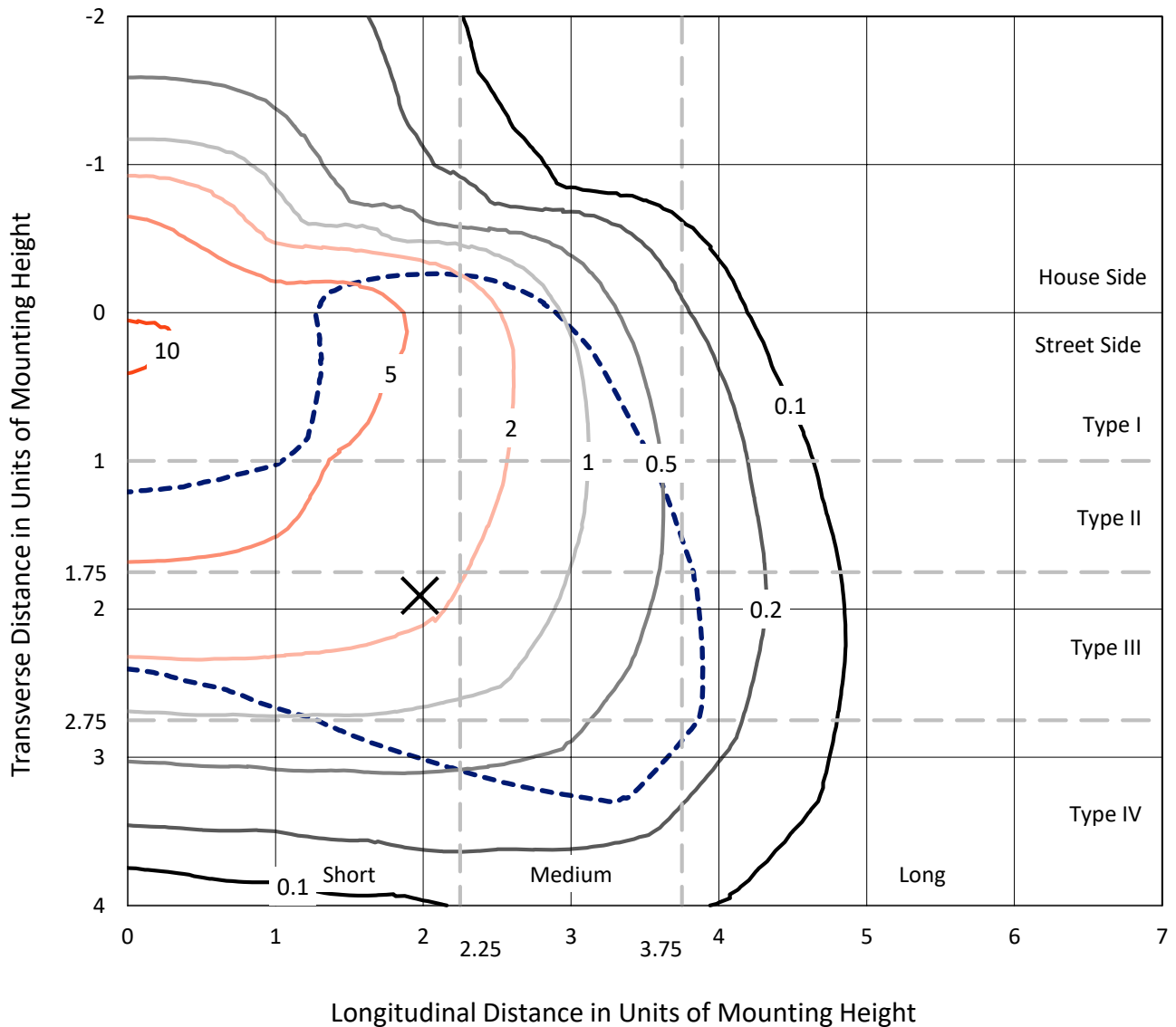
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

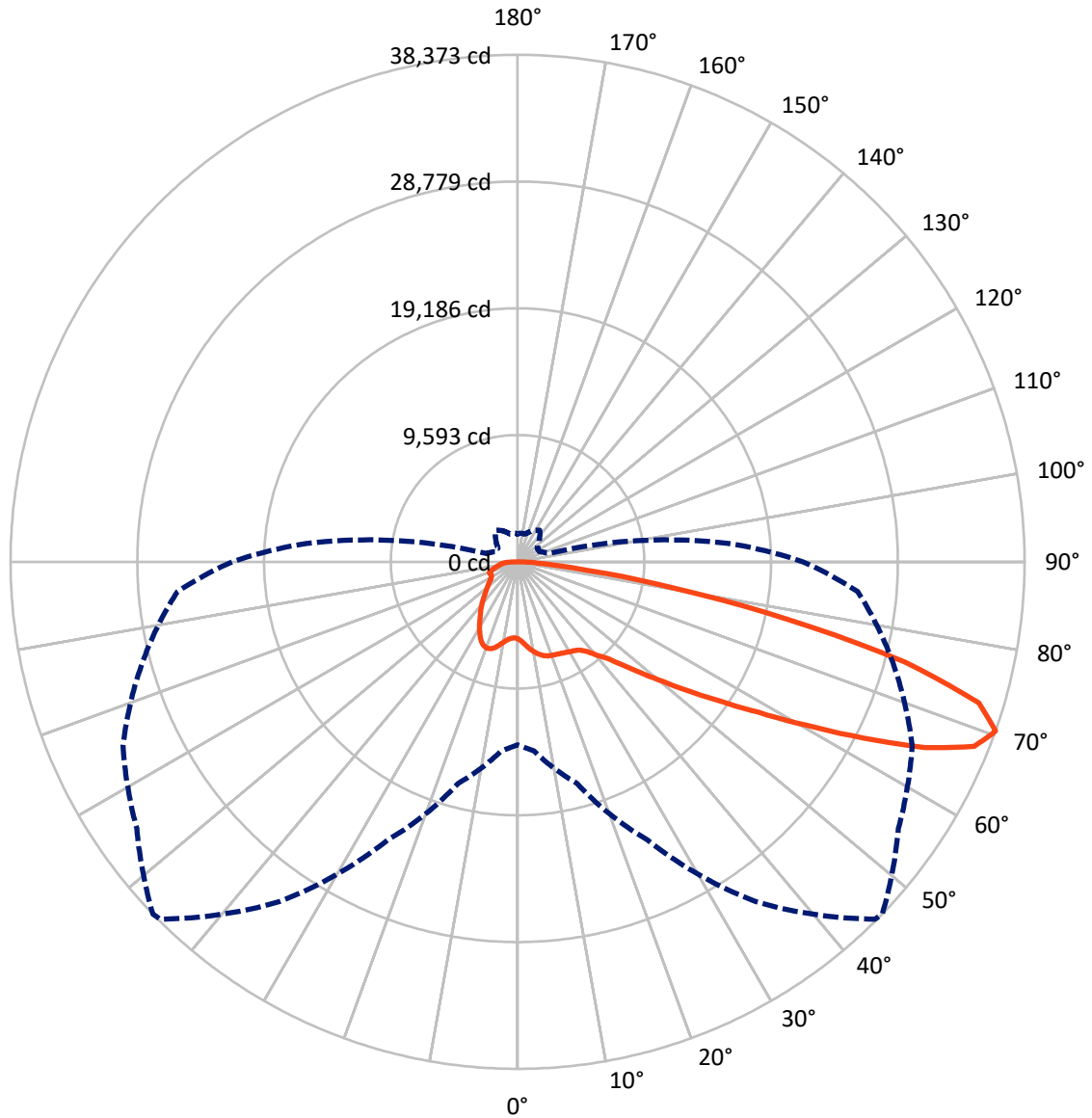
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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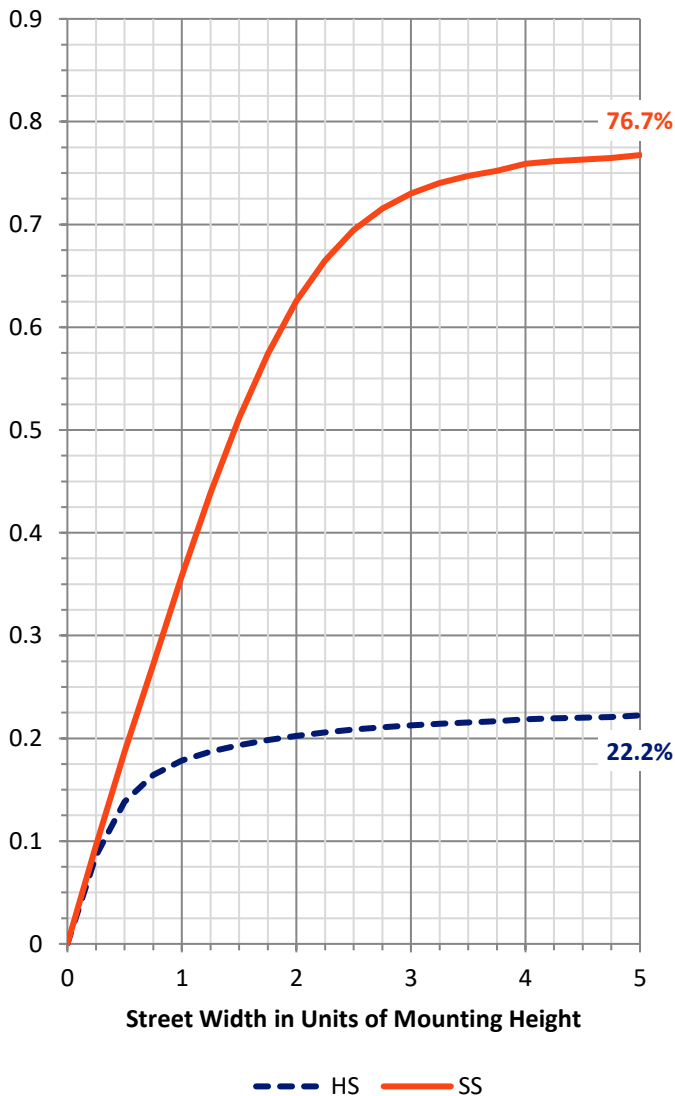
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13106.4	0.0	13106.4
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	44077.6	0.0	44077.6
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	57184.0	0.0	57184.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	593.9	1.0
10°-20°	1978.7	3.5
20°-30°	3299.3	5.8
30°-40°	4681.9	8.2
40°-50°	6886.9	12.0
50°-60°	11662.9	20.4
60°-70°	16555.2	29.0
70°-80°	10057.4	17.6
80°-90°	1467.8	2.6
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°	57184.0	100.0
0°-180°	57184.0	100.0

**Coefficient of Utilization**

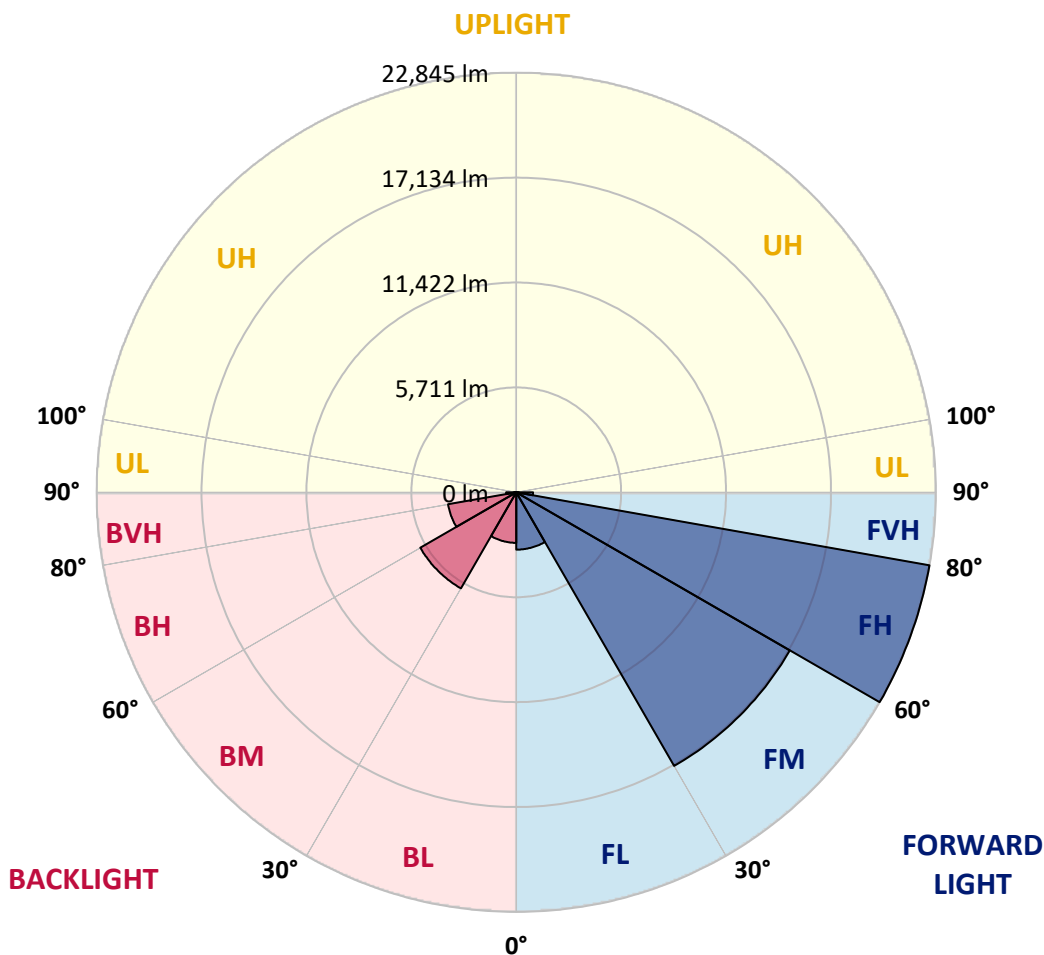


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3120.2	5.5			
FM (30°-60°)	17198.4	30.1			
FH (60°-80°)	22844.7	39.9			G5
FVH (80°-90°)	914.3	1.6			G5
BL (0°-30°)	2751.7	4.8	B4/5000		
BM (30°-60°)	6033.2	10.6	B4/8500		
BH (60°-80°)	3768.0	6.6	B4/5000		G4/5000
BVH (80°-90°)	553.5	1.0			G4/750
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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5825.9	5825.9	5825.9	5825.9	5825.9	5825.9	5825.9	5825.9	5825.9	5825.9	5825.9
2.5°	6117.5	6121.4	6129.3	6109.7	6054.9	6039.2	6033.4	5976.6	5939.4	5884.6	5837.7
5°	6606.8	6610.7	6598.9	6544.1	6422.8	6332.8	6325.0	6195.8	6078.4	5953.1	5859.2
7.5°	7117.5	7123.4	7086.2	6982.5	6812.2	6655.7	6645.9	6469.8	6291.7	6101.9	5961.0
10°	7569.6	7546.1	7485.4	7340.6	7139.1	6947.3	6939.5	6755.5	6550.0	6321.0	6133.2
12.5°	7871.0	7851.4	7773.1	7597.0	7375.9	7199.7	7184.1	7013.8	6814.2	6563.7	6338.7
15°	8037.3	8051.0	7945.3	7745.7	7530.5	7381.7	7368.0	7246.7	7068.6	6816.2	6557.8
17.5°	8058.8	8070.6	7968.8	7771.2	7595.0	7493.3	7487.4	7407.2	7278.0	7035.3	6765.3
20°	7933.6	7941.4	7857.3	7694.8	7579.4	7548.1	7546.1	7510.9	7415.0	7199.7	6937.5
22.5°	7751.6	7757.5	7696.8	7579.4	7540.2	7589.2	7602.9	7589.2	7520.7	7319.1	7072.5
25°	7706.6	7702.7	7640.1	7520.7	7553.9	7657.7	7675.3	7681.1	7634.2	7458.1	7244.7
27.5°	7923.8	7910.1	7790.7	7599.0	7620.5	7745.7	7769.2	7826.0	7796.6	7642.0	7440.4
30°	8552.0	8528.5	8283.9	7896.4	7790.7	7855.3	7884.7	7974.7	7980.6	7851.4	7700.7
32.5°	9612.7	9583.3	9145.0	8452.2	8078.4	7966.9	7994.3	8129.3	8201.7	8101.9	7939.5
35°	10953.2	10920.0	10344.6	9397.4	8559.8	8180.2	8199.7	8307.4	8452.2	8311.3	8096.0
37.5°	12350.5	12270.3	11716.4	10509.0	9325.0	8636.2	8636.2	8649.9	8718.3	8424.8	8280.0
40°	13740.0	13659.7	13158.7	11816.2	10315.2	9354.4	9309.4	9006.0	8951.2	8698.8	8649.9
42.5°	15031.6	15008.1	14712.6	13293.8	11477.7	10060.8	9998.2	9483.5	9495.3	9338.7	9340.7
45°	16405.4	16405.4	16164.7	14785.0	12831.9	11195.9	11133.3	10375.9	10493.3	10420.9	10595.1
47.5°	17526.7	17561.9	17528.7	16338.8	14407.3	12638.2	12524.7	11612.7	11941.5	12190.0	12696.9
50°	18671.5	18726.3	18732.2	18043.4	16311.4	14352.5	14223.3	13254.6	13988.5	14700.8	15696.9
52.5°	20333.0	20456.3	19965.1	19744.0	18644.2	16387.8	16260.5	15366.2	16591.3	17591.3	19307.6
55°	21873.2	21765.5	21415.2	21552.2	21141.3	18704.8	18608.9	17824.2	19491.5	20791.0	23020.0
57.5°	22706.8	22699.0	23051.3	23638.4	23834.1	21562.0	21481.8	20718.6	22761.6	23738.2	26505.3
60°	23685.3	23699.0	24571.8	25904.5	26710.8	25119.8	25084.6	24505.3	25937.8	26489.7	29239.2
62.5°	23822.3	24068.9	25571.9	27865.4	29403.6	29276.4	29354.7	27916.3	28779.4	28685.4	31280.4
65°	22247.0	22571.8	25292.0	28458.4	32080.8	33822.5	33894.9	31346.9	31020.1	30562.2	32010.3
67.5°	19017.9	19499.4	22454.4	27168.8	32963.4	37182.6	37284.4	34006.4	32879.2	31198.2	30253.0
70°	13839.8	14374.0	17348.6	23203.9	31390.0	38257.0	38372.5	35182.6	32949.7	29388.0	25826.3
72.5°	8360.2	8779.0	11231.1	17082.5	26493.6	36300.0	36505.5	33691.4	30082.7	24892.8	19070.8
75°	3671.3	3945.3	5430.6	9843.6	18967.1	30033.8	30290.1	28838.1	24442.7	18090.3	11272.2
77.5°	1563.6	1641.9	2227.0	4276.0	10722.3	20522.9	20875.1	21070.8	16583.5	9843.6	4763.3
80°	974.6	1005.9	1260.3	1935.5	5017.7	11526.6	11906.3	12397.5	8235.0	3618.5	1663.4
82.5°	593.0	628.2	837.6	1170.3	2612.6	5225.1	5407.1	5753.5	3195.7	1563.6	861.1
85°	356.2	381.6	512.7	739.7	1487.3	2054.8	2052.9	2270.1	1504.9	1005.9	454.0
87.5°	170.3	189.8	274.0	383.6	749.5	771.1	722.1	818.0	913.9	659.5	229.0
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°	5825.9	5825.9	5825.9	5825.9	5825.9	5825.9	5825.9	5825.9	5825.9	5825.9	5825.9
2.5°	5822.0	5814.2	5788.7	5769.2	5765.3	5753.5	5743.7	5749.6	5757.4	5759.4	5759.4
5°	5820.1	5798.5	5765.3	5751.6	5769.2	5792.7	5822.0	5861.2	5884.6	5902.3	5914.0
7.5°	5914.0	5872.9	5835.7	5827.9	5863.1	5925.7	5992.3	6074.5	6131.2	6170.4	6178.2
10°	6070.6	6019.7	5982.5	5990.3	6052.9	6143.0	6236.9	6342.6	6428.7	6481.5	6485.4
12.5°	6250.6	6201.7	6166.4	6199.7	6303.4	6413.0	6510.9	6602.9	6681.1	6734.0	6734.0
15°	6458.0	6422.8	6381.7	6458.0	6598.9	6696.8	6737.9	6782.9	6825.9	6865.1	6857.3
17.5°	6657.6	6624.4	6602.9	6692.9	6839.6	6884.7	6857.3	6824.0	6824.0	6845.5	6849.4
20°	6829.9	6800.5	6814.2	6902.3	6978.6	6931.6	6829.9	6724.2	6681.1	6692.9	6704.6
22.5°	6980.5	6966.8	7007.9	7049.0	6994.2	6829.9	6642.0	6499.1	6446.3	6442.4	6446.3
25°	7156.7	7154.7	7205.6	7131.2	6888.6	6585.2	6332.8	6193.8	6164.5	6188.0	6227.1
27.5°	7375.9	7397.4	7422.8	7150.8	6673.3	6215.4	5959.0	5863.1	5892.5	5949.2	5986.4
30°	7655.7	7714.4	7659.6	7101.9	6364.1	5792.7	5548.0	5520.6	5600.9	5681.1	5720.3
32.5°	7927.7	8019.7	7886.6	6974.7	5964.9	5344.5	5154.7	5146.9	5244.7	5323.0	5377.8
35°	8146.9	8328.9	8056.9	6722.2	5503.0	4931.6	4792.6	4739.8	4775.0	4867.0	4929.6
37.5°	8432.6	8736.0	8174.3	6336.7	5002.0	4591.1	4428.6	4307.3	4276.0	4313.2	4344.5
40°	8955.1	9356.3	8229.1	5798.5	4512.8	4250.6	4086.2	3908.1	3784.8	3694.8	3696.7
42.5°	9808.4	10164.6	8193.9	5144.9	4060.7	3917.9	3732.0	3526.5	3326.9	3123.3	3107.7
45°	11193.9	11366.1	8088.2	4452.1	3663.5	3569.5	3395.4	3189.9	2923.7	2692.8	2671.3
47.5°	13411.2	13029.6	7923.8	3847.4	3313.2	3274.0	3113.6	2876.8	2595.0	2409.0	2393.4
50°	16434.7	15430.8	7843.6	3366.0	3004.0	3015.7	2884.6	2634.1	2367.9	2231.0	2215.3
52.5°	20051.2	18227.3	7998.2	2994.2	2755.4	2796.5	2698.7	2463.8	2240.7	2133.1	2117.5
55°	23802.8	21123.6	8164.5	2724.1	2520.6	2600.8	2567.6	2373.8	2172.2	2072.4	2058.7
57.5°	27014.2	23286.1	7831.8	2504.9	2311.2	2436.4	2465.8	2317.1	2137.0	2047.0	2031.3
60°	29035.7	24157.0	6959.0	2299.5	2144.9	2305.3	2407.1	2301.4	2150.7	2142.9	2131.2
62.5°	29994.6	24080.6	5649.8	2137.0	2041.1	2248.6	2450.1	2389.5	2307.3	2377.7	2383.6
65°	29564.1	22929.9	4207.5	2029.4	1966.8	2270.1	2579.3	2555.8	2352.3	2422.7	2432.5
67.5°	26730.4	20184.3	3115.5	1935.5	1884.6	2330.8	2814.1	2610.6	2264.2	2315.1	2283.8
70°	21605.1	16002.2	2403.2	1829.8	1800.4	2322.9	2919.8	2577.3	2168.3	2180.1	2095.9
72.5°	14898.5	10912.1	1955.0	1731.9	1679.1	2117.5	2845.4	2495.1	2088.1	1998.1	1886.5
75°	8101.9	5857.2	1661.5	1630.2	1465.8	1859.1	2708.5	2436.4	2015.7	1896.3	1833.7
77.5°	3187.9	2430.6	1442.3	1491.2	1281.8	1641.9	2555.8	2324.9	1915.9	1759.3	1728.0
80°	1301.4	1240.7	1195.7	1289.7	1101.8	1436.4	2371.9	2193.8	1796.5	1632.1	1569.5
82.5°	737.8	771.1	929.6	1017.6	894.3	1322.9	2283.8	2088.1	1653.6	1461.9	1387.5
85°	377.7	452.1	647.8	730.0	657.5	1125.3	2103.8	1827.8	1326.8	1119.4	1125.3
87.5°	182.0	252.5	409.0	457.9	426.6	814.1	1571.5	1324.9	1033.3	818.0	792.6
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)