

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: P319043

Luminaire Tested: **GAN-SA9B-740-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319043  
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-SA9B-740-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50732 lumens  
Efficiency: N/A  
Efficacy: 135.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

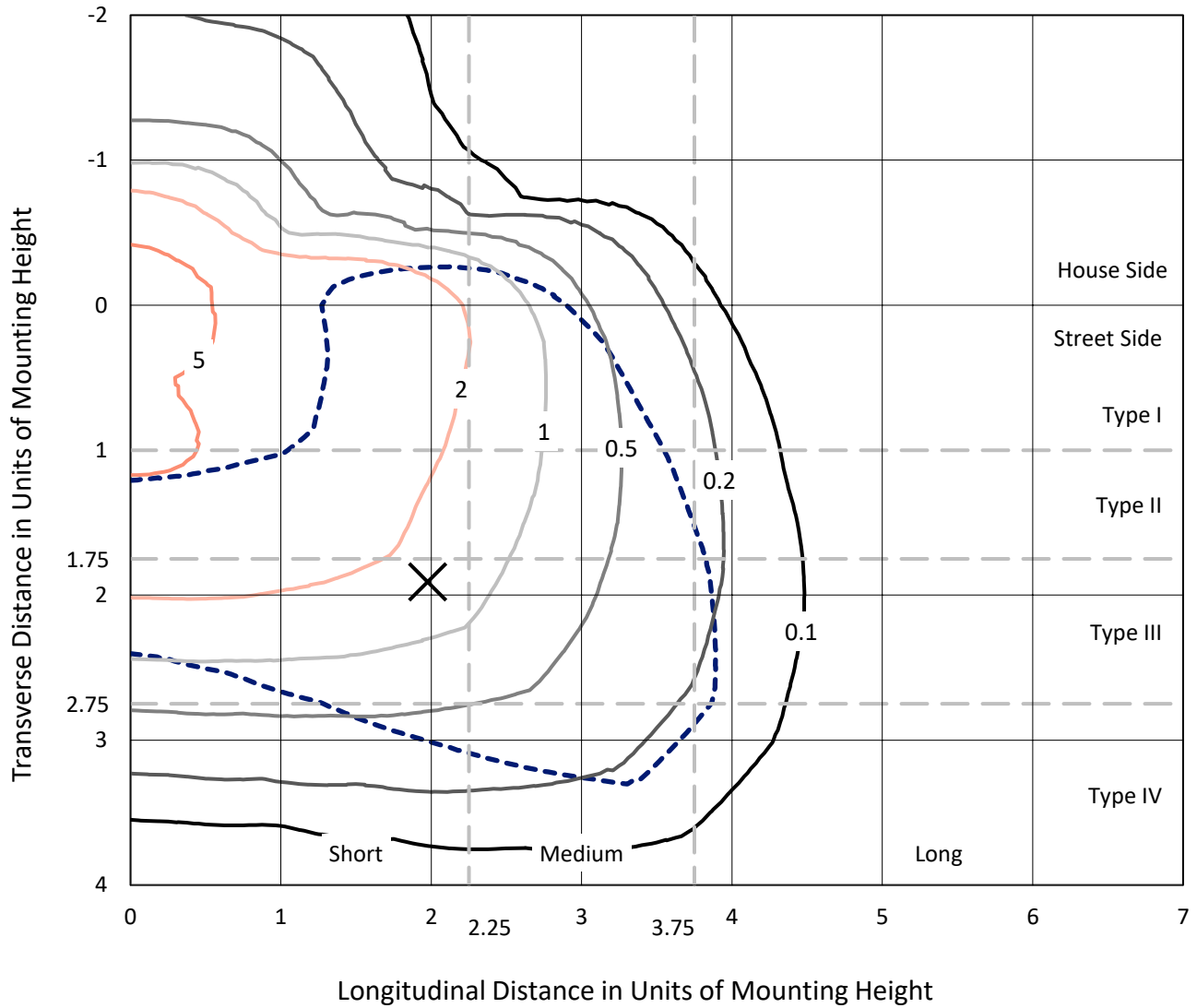
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

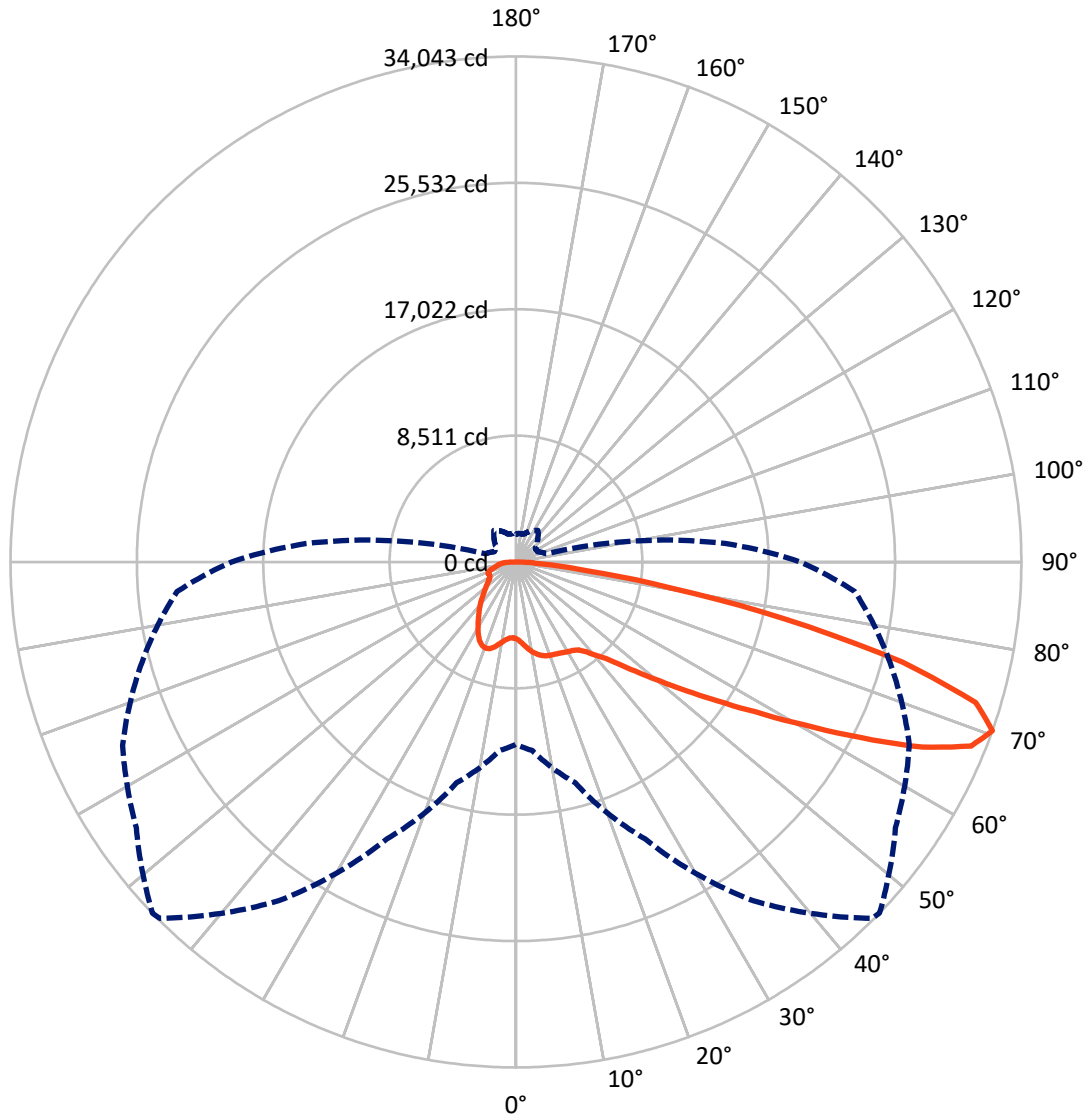
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 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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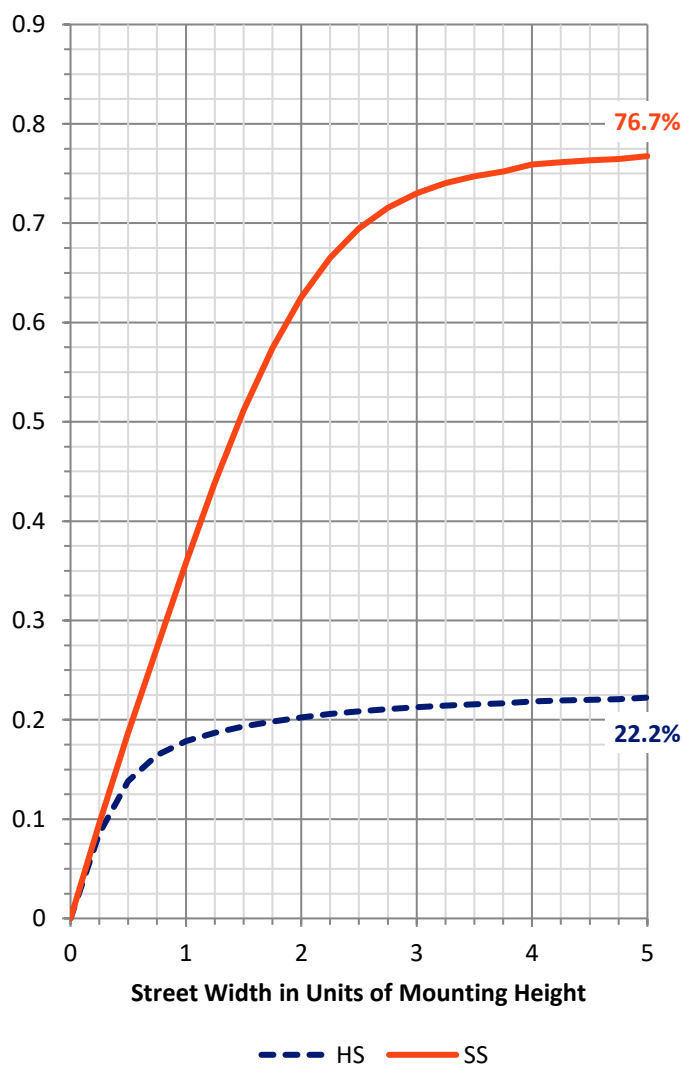
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11627.6	0.0	11627.6
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	39104.4	0.0	39104.4
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	50732.0	0.0	50732.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	526.9	1.0
10°-20°	1755.5	3.5
20°-30°	2927.0	5.8
30°-40°	4153.7	8.2
40°-50°	6109.8	12.0
50°-60°	10347.0	20.4
60°-70°	14687.3	29.0
70°-80°	8922.7	17.6
80°-90°	1302.2	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°	50732.0	100.0
0°-180°	50732.0	100.0

**Coefficient of Utilization**



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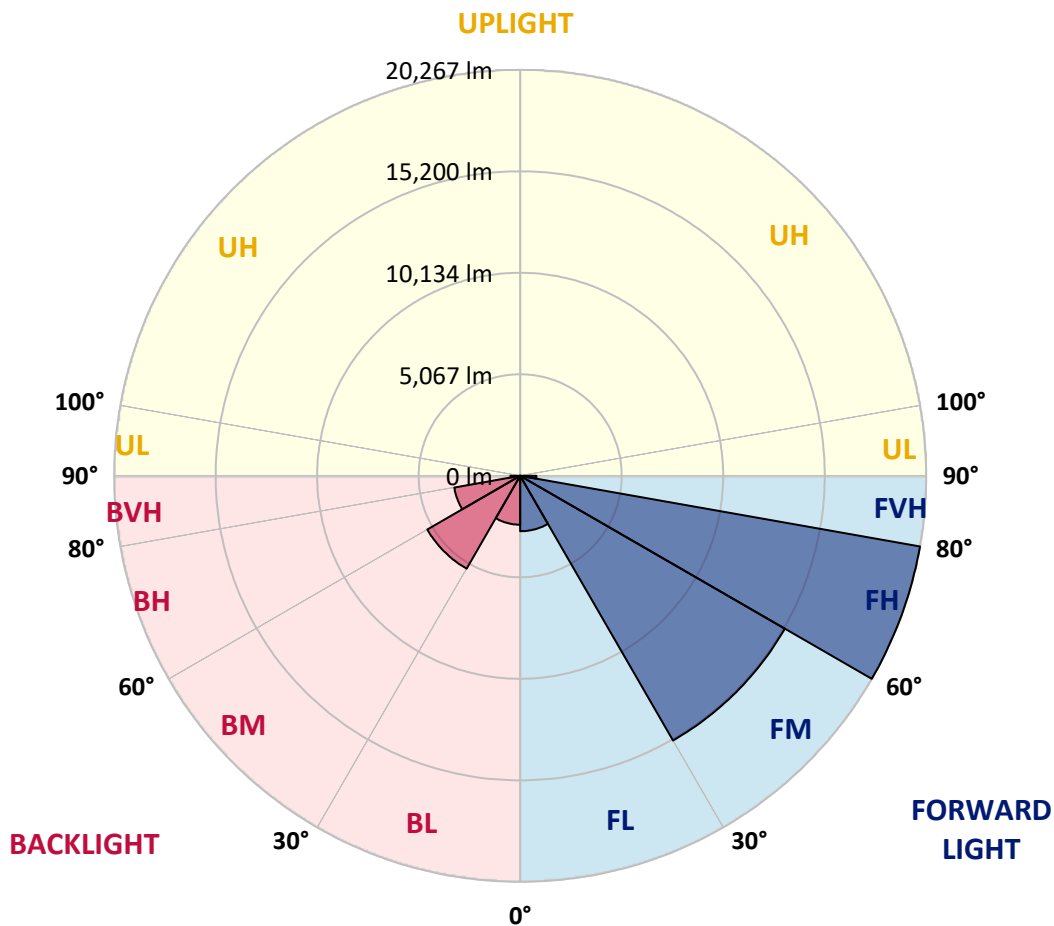
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2768.2	5.5			
FM (30°-60°)	15257.9	30.1			
FH (60°-80°)	20267.1	39.9			G5
FVH (80°-90°)	811.1	1.6			G5
BL (0°-30°)	2441.3	4.8	B3/2500		
BM (30°-60°)	5352.5	10.6	B4/8500		
BH (60°-80°)	3342.8	6.6	B4/5000		G4/5000
BVH (80°-90°)	491.0	1.0			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5168.6	5168.6	5168.6	5168.6	5168.6	5168.6	5168.6	5168.6	5168.6	5168.6	5168.6
2.5°	5427.3	5430.8	5437.7	5420.3	5371.7	5357.8	5352.6	5302.3	5269.3	5220.7	5179.0
5°	5861.3	5864.8	5854.4	5805.8	5698.1	5618.3	5611.3	5496.7	5392.6	5281.4	5198.1
7.5°	6314.5	6319.7	6286.7	6194.7	6043.6	5904.7	5896.1	5739.8	5581.8	5413.4	5288.4
10°	6715.5	6694.7	6640.9	6512.4	6333.6	6163.4	6156.5	5993.3	5811.0	5607.9	5441.2
12.5°	6982.9	6965.5	6896.1	6739.8	6543.6	6387.4	6373.5	6222.5	6045.4	5823.1	5623.5
15°	7130.5	7142.6	7048.9	6871.8	6680.8	6548.9	6536.7	6429.1	6271.1	6047.1	5817.9
17.5°	7149.6	7160.0	7069.7	6894.4	6738.1	6647.8	6642.6	6571.4	6456.8	6241.6	6002.0
20°	7038.5	7045.4	6970.7	6826.6	6724.2	6696.4	6694.7	6663.4	6578.4	6387.4	6154.7
22.5°	6877.0	6882.2	6828.4	6724.2	6689.5	6732.9	6745.0	6732.9	6672.1	6493.3	6274.5
25°	6837.1	6833.6	6778.0	6672.1	6701.6	6793.7	6809.3	6814.5	6772.8	6616.6	6427.3
27.5°	7029.8	7017.6	6911.7	6741.6	6760.7	6871.8	6892.6	6943.0	6916.9	6779.8	6600.9
30°	7587.1	7566.3	7349.2	7005.5	6911.7	6969.0	6995.1	7074.9	7080.1	6965.5	6831.9
32.5°	8528.1	8502.1	8113.2	7498.5	7166.9	7068.0	7092.3	7212.1	7276.3	7187.8	7043.7
35°	9717.4	9687.9	9177.4	8337.1	7594.0	7257.2	7274.6	7370.1	7498.5	7373.5	7182.6
37.5°	10957.0	10885.8	10394.5	9323.3	8272.9	7661.7	7661.7	7673.9	7734.7	7474.2	7345.8
40°	12189.7	12118.5	11674.1	10483.0	9151.4	8298.9	8259.0	7989.9	7941.3	7717.3	7673.9
42.5°	13335.6	13314.7	13052.6	11793.8	10182.7	8925.7	8870.1	8413.5	8423.9	8285.0	8286.8
45°	14554.4	14554.4	14340.8	13116.8	11384.1	9932.7	9877.1	9205.2	9309.4	9245.1	9399.7
47.5°	15549.2	15580.4	15550.9	14495.3	12781.7	11212.2	11111.5	10302.5	10594.1	10814.6	11264.3
50°	16564.9	16613.5	16618.7	16007.5	14471.0	12733.1	12618.5	11759.1	12410.2	13042.2	13925.9
52.5°	18038.9	18148.3	17712.5	17516.3	16540.6	14538.7	14425.9	13632.5	14719.3	15606.5	17129.1
55°	19405.2	19309.8	18999.0	19120.5	18755.9	16594.4	16509.3	15813.1	17292.3	18445.1	20422.6
57.5°	20144.9	20137.9	20450.4	20971.3	21144.9	19129.2	19058.0	18380.9	20193.5	21059.8	23514.8
60°	21012.9	21025.1	21799.4	22981.8	23697.1	22285.6	22254.3	21740.4	23011.3	23500.9	25940.2
62.5°	21134.5	21353.2	22686.6	24721.4	26086.1	25973.2	26042.6	24766.6	25532.2	25448.9	27751.0
65°	19736.9	20025.1	22438.3	25247.5	28461.1	30006.3	30070.6	27810.1	27520.1	27113.9	28398.6
67.5°	16872.2	17299.3	19920.9	24103.3	29244.2	32987.4	33077.6	30169.5	29169.5	27678.1	26839.6
70°	12278.2	12752.2	15391.2	20585.8	27848.3	33940.5	34043.0	31213.0	29232.0	26072.2	22912.3
72.5°	7416.9	7788.5	9963.9	15155.1	23504.4	32204.3	32386.6	29890.0	26688.5	22084.2	16919.0
75°	3257.1	3500.1	4817.9	8733.0	16827.0	26645.1	26872.5	25584.3	21684.8	16049.2	10000.4
77.5°	1387.2	1456.7	1975.8	3793.5	9512.5	18207.3	18519.8	18693.4	14712.4	8733.0	4225.9
80°	864.6	892.4	1118.1	1717.1	4451.6	10226.1	10562.9	10998.7	7305.8	3210.2	1475.8
82.5°	526.1	557.3	743.1	1038.2	2317.8	4635.6	4797.1	5104.4	2835.2	1387.2	763.9
85°	316.0	338.6	454.9	656.3	1319.5	1823.0	1821.2	2014.0	1335.1	892.4	402.8
87.5°	151.0	168.4	243.1	340.3	665.0	684.1	640.6	725.7	810.8	585.1	203.1
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°	5168.6	5168.6	5168.6	5168.6	5168.6	5168.6	5168.6	5168.6	5168.6	5168.6	5168.6
2.5°	5165.1	5158.2	5135.6	5118.2	5114.8	5104.4	5095.7	5100.9	5107.8	5109.6	5109.6
5°	5163.4	5144.3	5114.8	5102.6	5118.2	5139.1	5165.1	5199.8	5220.7	5236.3	5246.7
7.5°	5246.7	5210.3	5177.3	5170.3	5201.6	5257.1	5316.2	5389.1	5439.4	5474.2	5481.1
10°	5385.6	5340.5	5307.5	5314.4	5370.0	5449.9	5533.2	5626.9	5703.3	5750.2	5753.7
12.5°	5545.3	5501.9	5470.7	5500.2	5592.2	5689.5	5776.3	5857.9	5927.3	5974.2	5974.2
15°	5729.4	5698.1	5661.7	5729.4	5854.4	5941.2	5977.7	6017.6	6055.8	6090.5	6083.6
17.5°	5906.5	5877.0	5857.9	5937.7	6067.9	6107.9	6083.6	6054.0	6054.0	6073.1	6076.6
20°	6059.3	6033.2	6045.4	6123.5	6191.2	6149.5	6059.3	5965.5	5927.3	5937.7	5948.1
22.5°	6192.9	6180.8	6217.2	6253.7	6205.1	6059.3	5892.6	5765.8	5719.0	5715.5	5719.0
25°	6349.2	6347.5	6392.6	6326.6	6111.3	5842.2	5618.3	5495.0	5469.0	5489.8	5524.5
27.5°	6543.6	6562.7	6585.3	6344.0	5920.4	5514.1	5286.7	5201.6	5227.6	5278.0	5311.0
30°	6791.9	6844.0	6795.4	6300.6	5646.0	5139.1	4922.1	4897.8	4968.9	5040.1	5074.8
32.5°	7033.3	7114.9	6996.8	6187.7	5291.9	4741.5	4573.1	4566.1	4653.0	4722.4	4771.0
35°	7227.7	7389.2	7147.8	5963.8	4882.1	4375.2	4251.9	4205.0	4236.3	4317.9	4373.4
37.5°	7481.2	7750.3	7252.0	5621.7	4437.7	4073.1	3929.0	3821.3	3793.5	3826.5	3854.3
40°	7944.7	8300.7	7300.6	5144.3	4003.6	3771.0	3625.1	3467.1	3357.8	3277.9	3279.6
42.5°	8701.7	9017.7	7269.4	4564.4	3602.6	3475.8	3310.9	3128.6	2951.5	2770.9	2757.0
45°	9930.9	10083.7	7175.6	3949.8	3250.1	3166.8	3012.3	2830.0	2593.8	2389.0	2369.9
47.5°	11898.0	11559.5	7029.8	3413.3	2939.3	2904.6	2762.3	2552.2	2302.2	2137.2	2123.3
50°	14580.4	13689.8	6958.6	2986.2	2665.0	2675.4	2559.1	2336.9	2100.8	1979.2	1965.4
52.5°	17788.9	16170.7	7095.8	2656.4	2444.5	2481.0	2394.2	2185.8	1987.9	1892.4	1878.5
55°	21117.1	18740.3	7243.3	2416.8	2236.2	2307.4	2277.9	2106.0	1927.2	1838.6	1826.5
57.5°	23966.2	20658.8	6948.2	2222.3	2050.4	2161.5	2187.6	2055.6	1895.9	1816.0	1802.2
60°	25759.7	21431.4	6173.8	2040.0	1902.8	2045.2	2135.5	2041.7	1908.1	1901.1	1890.7
62.5°	26610.4	21363.7	5012.3	1895.9	1810.8	1994.9	2173.7	2119.9	2047.0	2109.5	2114.7
65°	26228.4	20342.8	3732.8	1800.4	1744.9	2014.0	2288.3	2267.4	2086.9	2149.4	2158.1
67.5°	23714.4	17906.9	2764.0	1717.1	1671.9	2067.8	2496.6	2316.1	2008.8	2053.9	2026.1
70°	19167.4	14196.7	2132.0	1623.3	1597.3	2060.8	2590.4	2286.5	1923.7	1934.1	1859.4
72.5°	13217.5	9680.9	1734.4	1536.5	1489.6	1878.5	2524.4	2213.6	1852.5	1772.6	1673.7
75°	7187.8	5196.4	1474.0	1446.2	1300.4	1649.4	2402.9	2161.5	1788.3	1682.4	1626.8
77.5°	2828.2	2156.3	1279.6	1323.0	1137.2	1456.7	2267.4	2062.6	1699.7	1560.8	1533.0
80°	1154.6	1100.7	1060.8	1144.1	977.5	1274.4	2104.2	1946.3	1593.8	1448.0	1392.4
82.5°	654.5	684.1	824.7	902.8	793.4	1173.7	2026.1	1852.5	1467.1	1296.9	1230.9
85°	335.1	401.1	574.7	647.6	583.4	998.3	1866.4	1621.6	1177.1	993.1	998.3
87.5°	161.5	224.0	362.9	406.3	378.5	722.2	1394.1	1175.4	916.7	725.7	703.2
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)