

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: P318401

Luminaire Tested: **GAN-SA7B-740-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318401  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7B-740-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40430 lumens  
Efficiency: N/A  
Efficacy: 137.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

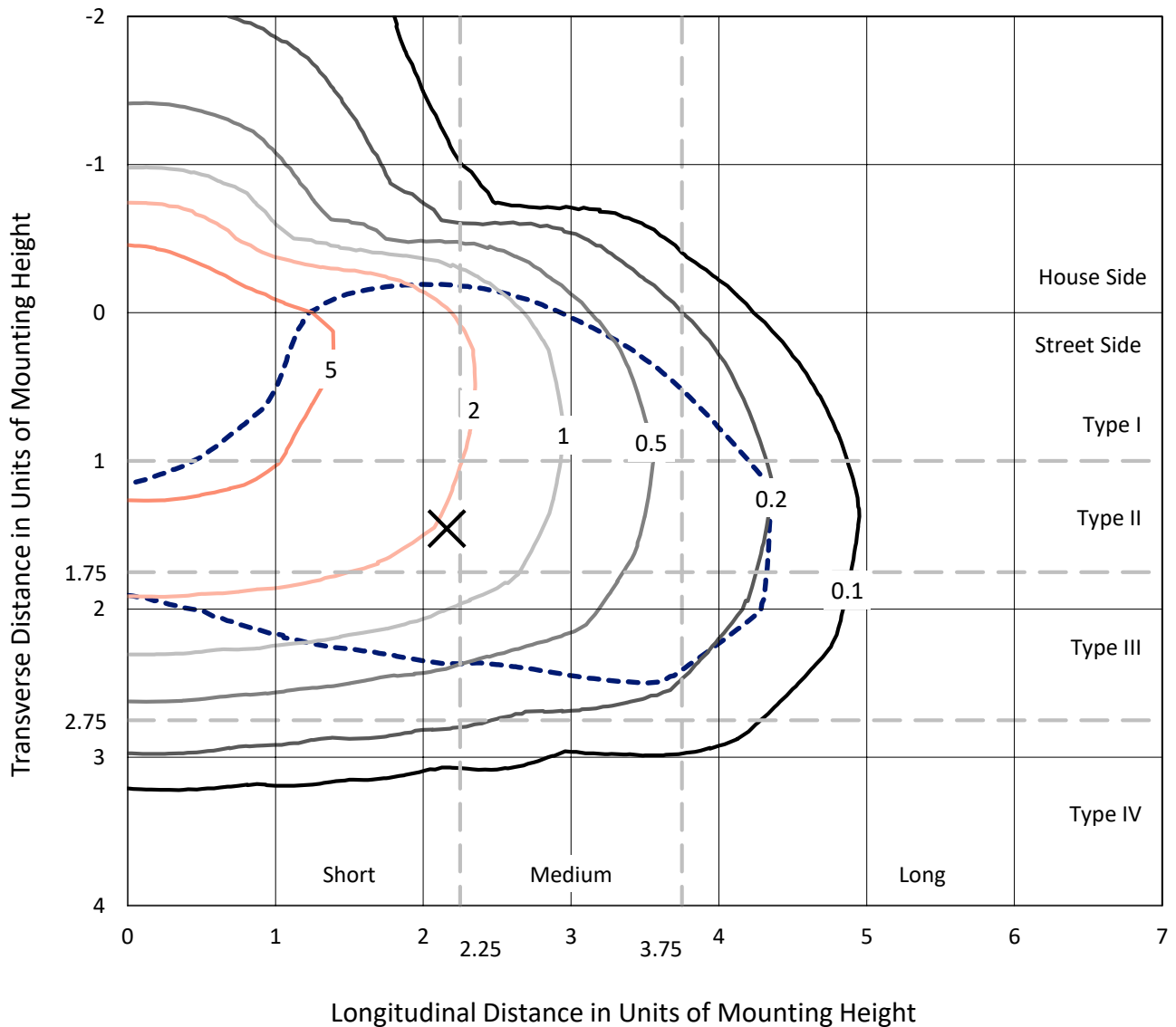
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

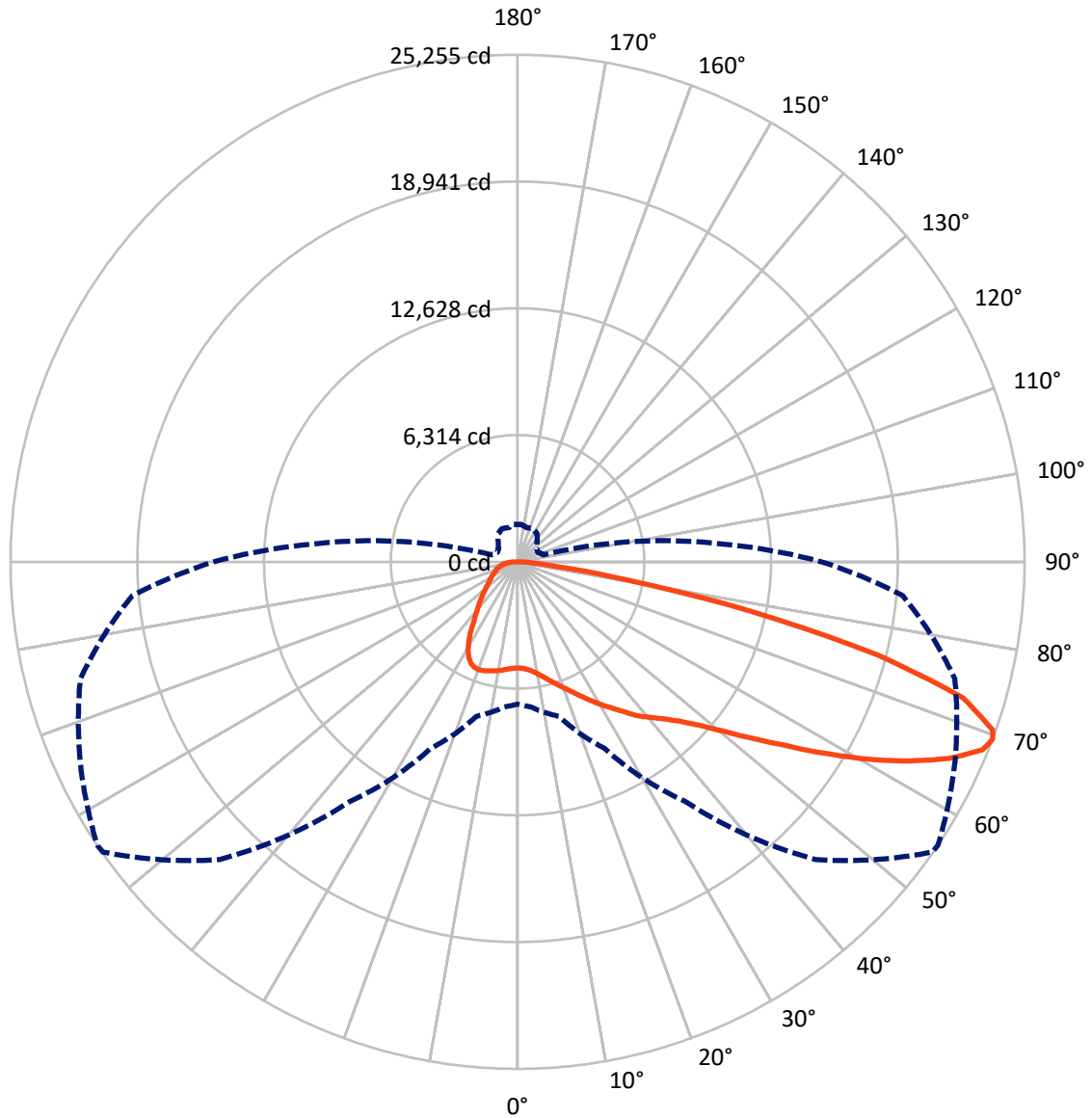
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9003.7	0.0	9003.7
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	31426.3	0.0	31426.3
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	40430.0	0.0	40430.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	519.1	1.3
10°-20°	1669.3	4.1
20°-30°	2914.0	7.2
30°-40°	4185.8	10.4
40°-50°	5793.0	14.3
50°-60°	8487.5	21.0
60°-70°	10347.9	25.6
70°-80°	5721.0	14.2
80°-90°	792.4	2.0
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°	40430.0	100.0
0°-180°	40430.0	100.0

**Coefficient of Utilization**

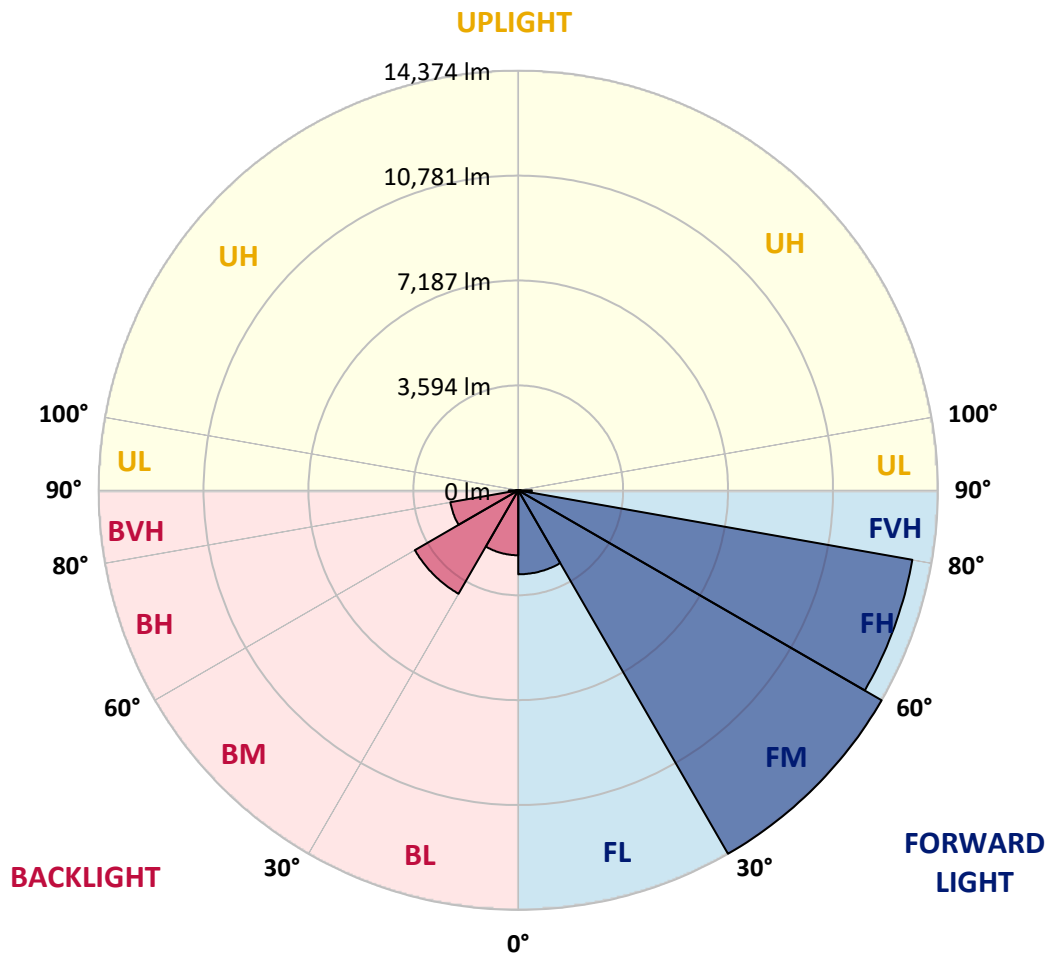


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2877.4	7.1			
FM (30°-60°)	14374.4	35.6			
FH (60°-80°)	13707.8	33.9			G5
FVH (80°-90°)	466.7	1.2			G3/500
BL (0°-30°)	2225.0	5.5	B3/2500		
BM (30°-60°)	4092.0	10.1	B3/5000		
BH (60°-80°)	2361.1	5.8	B3/2500		G3/2500
BVH (80°-90°)	325.6	0.8			G3/500
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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5285.6	5285.6	5285.6	5285.6	5285.6	5285.6	5285.6	5285.6	5285.6	5285.6	5285.6
2.5°	5319.0	5324.6	5320.4	5331.6	5319.0	5327.4	5320.4	5320.4	5316.3	5303.7	5289.8
5°	5402.6	5413.8	5406.8	5417.9	5402.6	5405.4	5392.9	5392.9	5380.3	5353.9	5326.0
7.5°	5533.5	5546.1	5540.5	5551.6	5530.7	5530.7	5514.0	5512.6	5487.6	5444.4	5412.4
10°	5689.5	5706.2	5700.7	5717.4	5700.7	5706.2	5689.5	5689.5	5656.1	5594.8	5554.4
12.5°	5916.5	5937.4	5922.1	5920.7	5913.8	5924.9	5911.0	5908.2	5877.5	5794.0	5738.3
15°	6220.2	6242.5	6210.4	6207.6	6168.6	6164.5	6164.5	6160.3	6140.8	6040.5	5948.6
17.5°	6569.8	6576.7	6548.9	6504.3	6454.2	6422.1	6417.9	6429.1	6429.1	6312.1	6165.9
20°	6912.4	6924.9	6902.6	6852.5	6788.4	6741.1	6707.6	6729.9	6728.5	6589.3	6381.7
22.5°	7285.7	7314.9	7281.5	7217.4	7142.2	7089.3	7030.8	7050.3	7051.7	6880.4	6593.4
25°	7768.9	7742.5	7721.6	7631.1	7523.8	7469.5	7415.2	7434.7	7429.1	7193.7	6812.1
27.5°	8196.5	8202.1	8174.2	8078.1	7954.2	7834.4	7831.6	7844.2	7823.3	7519.6	7018.2
30°	8693.8	8696.5	8657.5	8571.2	8436.1	8281.5	8245.3	8266.2	8221.6	7828.8	7235.5
32.5°	9188.2	9202.1	9158.9	9054.5	8945.8	8757.8	8685.4	8699.3	8587.9	8145.0	7459.7
35°	9621.3	9640.8	9626.9	9557.3	9438.9	9277.3	9191.0	9182.6	9044.7	8532.2	7756.4
37.5°	10062.9	10081.0	10065.6	10007.2	9959.8	9788.5	9742.5	9742.5	9503.0	8927.7	8133.9
40°	10516.9	10544.8	10526.7	10445.9	10405.5	10327.5	10217.5	10191.0	9931.9	9402.7	8749.5
42.5°	10938.9	10975.1	11047.6	11000.2	10918.0	10929.2	10707.7	10693.8	10504.4	10104.6	9522.5
45°	11537.8	11590.7	11713.3	11677.1	11660.4	11599.1	11335.9	11323.3	11250.9	11049.0	10482.1
47.5°	12191.0	12263.5	12484.9	12491.9	12671.5	12555.9	12198.0	12154.8	12171.5	12179.9	11653.4
50°	12792.7	12872.1	13235.6	13406.9	13830.3	13855.4	13283.0	13244.0	13309.4	13501.6	13018.3
52.5°	13273.2	13373.5	13827.6	14356.8	15082.5	15288.6	14618.7	14589.4	14638.2	14969.6	14561.6
55°	13625.6	13734.2	14228.7	15192.5	16351.3	16714.8	16156.3	16128.4	16159.1	16581.1	16239.9
57.5°	13707.8	13734.2	14451.5	15755.2	17422.3	18295.6	18037.9	17982.2	17831.8	18199.5	18092.3
60°	13322.0	13427.8	14267.7	15952.9	18251.0	19854.1	20004.6	19934.9	19512.9	19813.7	19727.4
62.5°	12539.2	12728.6	13581.0	15652.1	18575.6	21127.1	21933.6	21850.0	21123.0	21317.9	20902.9
65°	11260.7	11341.4	12237.0	14614.5	18163.3	21941.9	23653.6	23611.9	22696.8	22391.8	21120.2
67.5°	8973.7	9125.5	9886.0	12445.9	16476.6	21845.8	24983.8	24979.6	23724.7	22790.1	20350.0
69°	7089.3	7246.7	7970.9	10252.3	14579.7	20967.0	25206.6	25255.3	24014.4	22547.8	19249.7
70°	5651.9	5834.4	6331.6	8635.3	12895.8	19808.2	25021.4	25109.1	23958.7	22148.0	18234.3
72.5°	2405.3	2553.0	2906.7	4451.3	7859.5	14791.4	22877.9	23209.3	22667.6	20270.6	15069.9
75°	1050.2	1096.1	1256.3	1814.8	3488.9	8050.3	17922.3	18535.2	19382.0	17134.0	11225.8
77.5°	768.8	788.3	876.1	1065.5	1565.5	3040.4	11525.3	11881.8	13978.0	12468.2	6885.9
80°	594.7	608.6	676.9	782.7	1022.3	1229.8	5256.4	5562.8	7859.5	6404.0	2867.7
82.5°	473.5	483.3	530.7	576.6	706.1	745.1	1745.2	1936.0	2901.2	1768.8	759.1
85°	440.1	451.3	468.0	420.6	452.7	437.3	754.9	789.7	876.1	695.0	317.6
87.5°	199.2	235.4	463.8	327.3	241.0	192.2	309.2	323.1	363.5	364.9	140.7
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°	5285.6	5285.6	5285.6	5285.6	5285.6	5285.6	5285.6	5285.6	5285.6	5285.6	5285.6
2.5°	5298.1	5294.0	5300.9	5284.2	5305.1	5303.7	5296.8	5299.5	5313.5	5312.1	5313.5
5°	5330.2	5327.4	5335.8	5323.2	5348.3	5356.6	5358.0	5370.6	5385.9	5390.1	5390.1
7.5°	5411.0	5411.0	5415.1	5398.4	5415.1	5413.8	5406.8	5419.3	5434.6	5436.0	5434.6
10°	5550.2	5551.6	5544.7	5501.5	5487.6	5450.0	5415.1	5416.5	5436.0	5451.4	5455.5
12.5°	5725.7	5720.2	5689.5	5610.1	5551.6	5475.0	5438.8	5437.4	5456.9	5469.5	5473.6
15°	5926.3	5911.0	5831.6	5702.1	5599.0	5523.8	5465.3	5451.4	5440.2	5426.3	5427.7
17.5°	6115.7	6080.9	5948.6	5768.9	5660.3	5560.0	5447.2	5356.6	5294.0	5257.8	5246.6
20°	6307.9	6239.7	6048.9	5831.6	5693.7	5511.2	5294.0	5110.1	4995.9	4943.0	4933.2
22.5°	6483.4	6373.4	6142.2	5897.0	5667.2	5346.9	5005.7	4738.2	4579.5	4508.4	4514.0
25°	6654.7	6501.5	6239.7	5943.0	5533.5	5057.2	4604.5	4275.8	4092.0	4012.6	4009.8
27.5°	6805.1	6631.0	6345.5	5905.4	5284.2	4644.9	4129.6	3809.3	3656.1	3587.8	3576.7
30°	6977.8	6794.0	6486.2	5761.9	4919.3	4168.6	3665.8	3440.2	3331.5	3263.3	3250.8
32.5°	7188.2	7015.5	6601.8	5501.5	4452.7	3671.4	3303.7	3146.3	3047.4	2970.8	2956.9
35°	7494.6	7307.9	6631.0	5128.2	3940.2	3278.6	3037.7	2876.1	2742.4	2643.5	2633.8
37.5°	7879.0	7674.2	6564.2	4644.9	3443.0	3023.7	2816.2	2617.0	2442.9	2303.7	2281.4
40°	8433.3	8124.1	6378.9	4087.8	3076.7	2827.4	2600.3	2373.3	2157.4	1994.5	1962.4
42.5°	9099.1	8652.0	6094.8	3533.5	2807.9	2628.2	2385.8	2104.5	1898.4	1782.8	1766.0
45°	9945.9	9200.7	5700.7	3048.8	2543.2	2429.0	2154.6	1895.6	1767.4	1682.5	1668.6
47.5°	10912.5	9816.3	5287.0	2654.6	2319.0	2242.4	1969.4	1802.3	1700.6	1633.7	1621.2
50°	12100.5	10511.3	4848.3	2331.5	2093.4	2018.1	1881.7	1750.7	1669.9	1618.4	1605.9
52.5°	13440.4	11295.5	4532.1	2076.6	1906.7	1852.4	1835.7	1722.9	1657.4	1618.4	1605.9
55°	14883.3	12093.5	4190.9	1862.2	1745.2	1760.5	1805.0	1725.7	1681.1	1633.7	1615.6
57.5°	16327.6	12918.1	3810.7	1681.1	1617.0	1692.2	1784.2	1731.2	1693.6	1647.7	1630.9
60°	17469.7	13440.4	3221.5	1529.3	1515.3	1617.0	1734.0	1689.4	1640.7	1642.1	1639.3
62.5°	18003.1	13412.5	2571.1	1394.2	1413.7	1515.3	1653.2	1624.0	1583.6	1637.9	1642.1
65°	17703.7	12744.0	2001.4	1271.6	1305.0	1409.5	1569.7	1592.0	1605.9	1710.3	1724.3
67.5°	16447.4	11443.1	1550.2	1164.4	1206.2	1337.1	1578.0	1734.0	1752.1	1862.2	1860.8
69°	15147.9	10223.0	1346.8	1108.7	1157.4	1355.2	1686.7	1824.5	1756.3	1873.3	1856.6
70°	14058.8	9257.8	1238.2	1071.1	1135.1	1387.2	1759.1	1823.2	1735.4	1835.7	1807.8
72.5°	10827.5	6660.3	1050.2	1001.4	1059.9	1327.3	1780.0	1782.8	1686.7	1706.2	1658.8
75°	7426.3	4209.0	916.5	906.7	945.7	1196.4	1713.1	1703.4	1559.9	1532.1	1493.1
77.5°	4094.8	2137.9	778.6	816.2	842.6	1059.9	1557.1	1543.2	1424.8	1366.3	1352.4
80°	1579.4	936.0	657.4	725.6	742.4	917.8	1364.9	1352.4	1253.5	1178.3	1157.4
82.5°	596.1	490.3	543.2	628.1	622.6	757.7	1156.0	1149.0	1052.9	942.9	909.5
85°	275.8	293.9	430.4	518.1	477.7	561.3	924.8	937.3	820.3	689.4	689.4
87.5°	117.0	164.3	305.0	391.4	321.7	378.8	678.3	647.6	594.7	412.3	387.2
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)