

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: P318441

Luminaire Tested: **GAN-SA7B-750-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318441  
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-750-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40429 lumens  
Efficiency: N/A  
Efficacy: 137.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

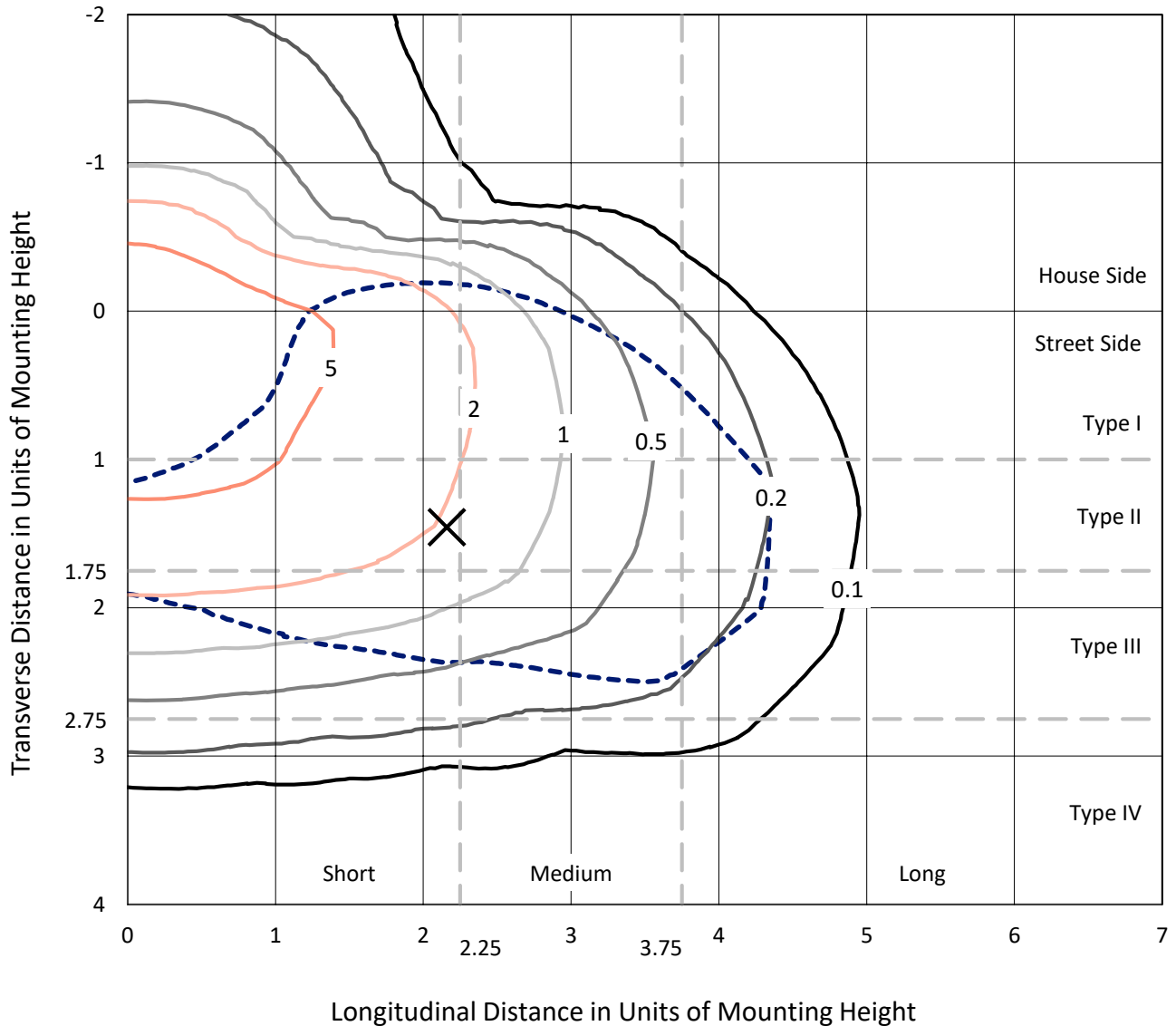
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

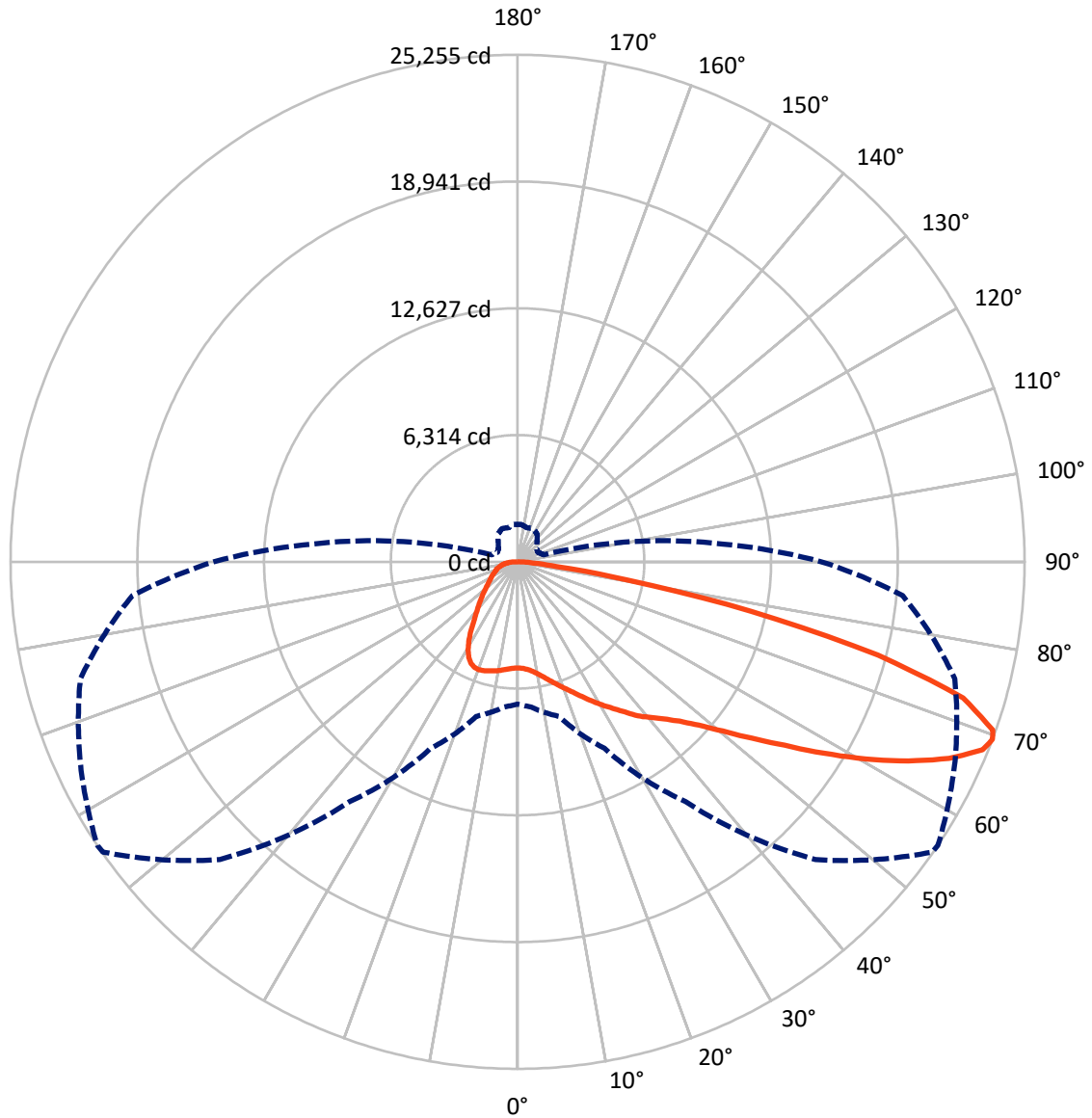
✕ Max cd  
 - - - 1/2 Max cd



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	9003.5	0.0	9003.5
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	31425.5	0.0	31425.5
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	40429.0	0.0	40429.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	519.1	1.3
10°-20°	1669.3	4.1
20°-30°	2913.9	7.2
30°-40°	4185.7	10.4
40°-50°	5792.8	14.3
50°-60°	8487.3	21.0
60°-70°	10347.6	25.6
70°-80°	5720.8	14.2
80°-90°	792.3	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°	40429.0	100.0
0°-180°	40429.0	100.0

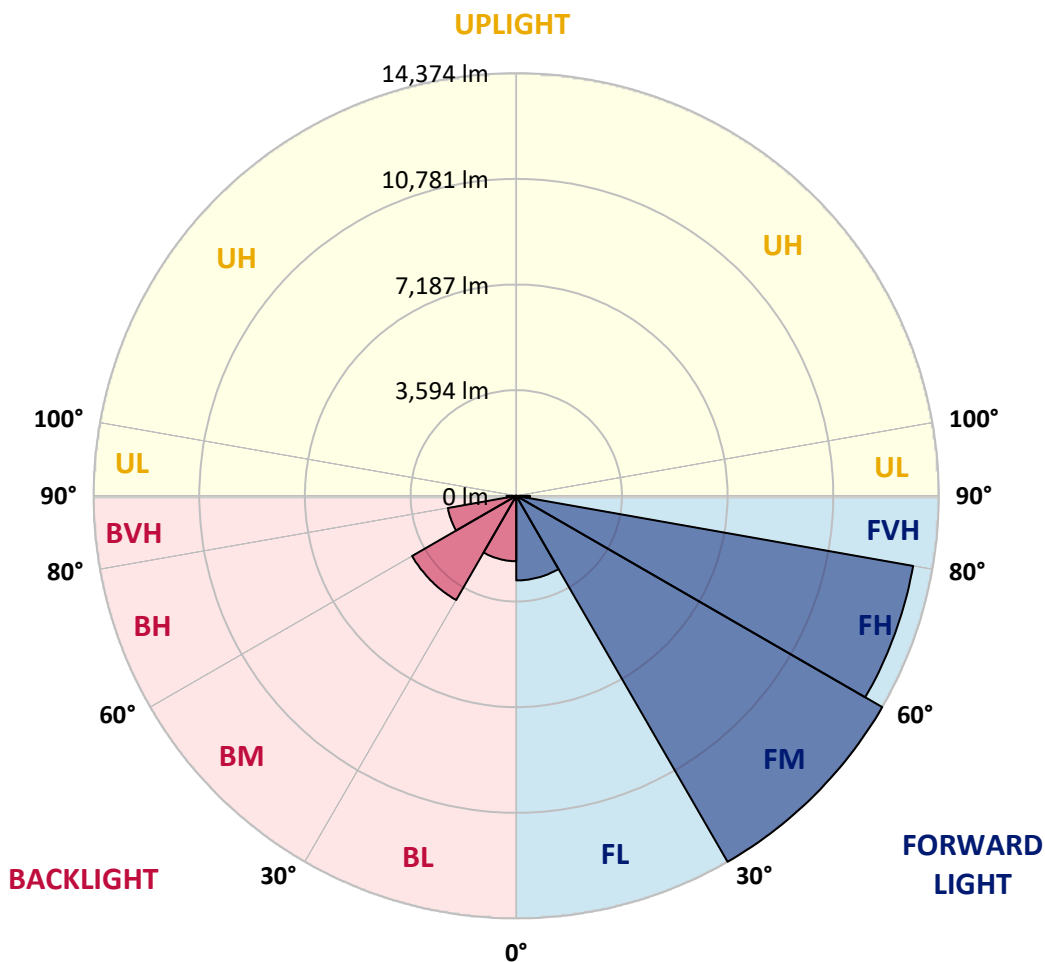


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2877.3	7.1			
FM (30°-60°)	14374.0	35.6			
FH (60°-80°)	13707.5	33.9			G5
FVH (80°-90°)	466.7	1.2			G3/500
BL (0°-30°)	2225.0	5.5	B3/2500		
BM (30°-60°)	4091.9	10.1	B3/5000		
BH (60°-80°)	2361.0	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°	5285.5	5285.5	5285.5	5285.5	5285.5	5285.5	5285.5	5285.5	5285.5	5285.5	5285.5
2.5°	5318.9	5324.5	5320.3	5331.4	5318.9	5327.3	5320.3	5320.3	5316.1	5303.6	5289.7
5°	5402.5	5413.6	5406.7	5417.8	5402.5	5405.3	5392.7	5392.7	5380.2	5353.7	5325.9
7.5°	5533.4	5545.9	5540.4	5551.5	5530.6	5530.6	5513.9	5512.5	5487.4	5444.3	5412.2
10°	5689.4	5706.1	5700.5	5717.2	5700.5	5706.1	5689.4	5689.4	5656.0	5594.7	5554.3
12.5°	5916.4	5937.3	5922.0	5920.6	5913.6	5924.8	5910.8	5908.0	5877.4	5793.8	5738.1
15°	6220.0	6242.3	6210.3	6207.5	6168.5	6164.3	6164.3	6160.1	6140.6	6040.4	5948.4
17.5°	6569.6	6576.6	6548.7	6504.1	6454.0	6422.0	6417.8	6428.9	6428.9	6311.9	6165.7
20°	6912.2	6924.7	6902.5	6852.3	6788.3	6740.9	6707.5	6729.8	6728.4	6589.1	6381.6
22.5°	7285.5	7314.7	7281.3	7217.2	7142.0	7089.1	7030.6	7050.1	7051.5	6880.2	6593.3
25°	7768.8	7742.3	7721.4	7630.9	7523.6	7469.3	7415.0	7434.5	7428.9	7193.5	6811.9
27.5°	8196.3	8201.9	8174.0	8077.9	7954.0	7834.2	7831.4	7844.0	7823.1	7519.5	7018.1
30°	8693.5	8696.3	8657.3	8571.0	8435.9	8281.3	8245.1	8266.0	8221.4	7828.6	7235.3
32.5°	9188.0	9201.9	9158.7	9054.3	8945.6	8757.6	8685.2	8699.1	8587.7	8144.8	7459.6
35°	9621.1	9640.6	9626.7	9557.0	9438.7	9277.1	9190.8	9182.4	9044.5	8532.0	7756.2
37.5°	10062.6	10080.7	10065.4	10006.9	9959.5	9788.2	9742.3	9742.3	9502.7	8927.5	8133.7
40°	10516.6	10544.5	10526.4	10445.6	10405.2	10327.2	10217.2	10190.7	9931.7	9402.4	8749.3
42.5°	10938.7	10974.9	11047.3	10999.9	10917.8	10928.9	10707.5	10693.5	10504.1	10104.4	9522.2
45°	11537.5	11590.5	11713.0	11676.8	11660.1	11598.8	11335.6	11323.1	11250.6	11048.7	10481.8
47.5°	12190.7	12263.2	12484.6	12491.6	12671.2	12555.6	12197.7	12154.5	12171.2	12179.6	11653.1
50°	12792.4	12871.8	13235.3	13406.6	13830.0	13855.1	13282.6	13243.7	13309.1	13501.3	13018.0
52.5°	13272.9	13373.2	13827.2	14356.5	15082.1	15288.2	14618.3	14589.0	14637.8	14969.3	14561.2
55°	13625.3	13733.9	14228.3	15192.1	16350.9	16714.4	16155.9	16128.0	16158.7	16580.7	16239.5
57.5°	13707.4	13733.9	14451.2	15754.8	17421.9	18295.2	18037.5	17981.8	17831.4	18199.1	18091.8
60°	13321.6	13427.5	14267.3	15952.5	18250.6	19853.6	20004.1	19934.4	19512.4	19813.2	19726.9
62.5°	12538.9	12728.3	13580.7	15651.7	18575.1	21126.6	21933.0	21849.4	21122.4	21317.4	20902.4
65°	11260.4	11341.2	12236.7	14614.1	18162.8	21941.4	23653.1	23611.3	22696.2	22391.2	21119.6
67.5°	8973.5	9125.3	9885.7	12445.6	16476.2	21845.3	24983.1	24979.0	23724.1	22789.6	20349.5
69°	7089.1	7246.5	7970.7	10252.0	14579.3	20966.4	25206.0	25254.7	24013.8	22547.2	19249.2
70°	5651.8	5834.2	6331.4	8635.0	12895.5	19807.7	25020.7	25108.5	23958.1	22147.5	18233.9
72.5°	2405.3	2552.9	2906.7	4451.2	7859.3	14791.0	22877.3	23208.8	22667.0	20270.1	15069.5
75°	1050.1	1096.1	1256.3	1814.8	3488.8	8050.1	17921.9	18534.7	19381.5	17133.6	11225.6
77.5°	768.8	788.3	876.0	1065.5	1565.5	3040.4	11525.0	11881.5	13977.6	12467.9	6885.8
80°	594.7	608.6	676.9	782.7	1022.3	1229.8	5256.2	5562.6	7859.3	6403.9	2867.7
82.5°	473.5	483.3	530.6	576.6	706.1	745.1	1745.1	1935.9	2901.1	1768.8	759.0
85°	440.1	451.3	468.0	420.6	452.6	437.3	754.9	789.7	876.0	695.0	317.5
87.5°	199.2	235.4	463.8	327.3	240.9	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°	5285.5	5285.5	5285.5	5285.5	5285.5	5285.5	5285.5	5285.5	5285.5	5285.5	5285.5
2.5°	5298.0	5293.8	5300.8	5284.1	5305.0	5303.6	5296.6	5299.4	5313.3	5311.9	5313.3
5°	5330.1	5327.3	5335.6	5323.1	5348.2	5356.5	5357.9	5370.4	5385.8	5389.9	5389.9
7.5°	5410.8	5410.8	5415.0	5398.3	5415.0	5413.6	5406.7	5419.2	5434.5	5435.9	5434.5
10°	5550.1	5551.5	5544.5	5501.4	5487.4	5449.8	5415.0	5416.4	5435.9	5451.2	5455.4
12.5°	5725.6	5720.0	5689.4	5610.0	5551.5	5474.9	5438.7	5437.3	5456.8	5469.3	5473.5
15°	5926.1	5910.8	5831.4	5701.9	5598.9	5523.6	5465.1	5451.2	5440.1	5426.2	5427.5
17.5°	6115.6	6080.7	5948.4	5768.8	5660.1	5559.9	5447.0	5356.5	5293.8	5257.6	5246.5
20°	6307.8	6239.5	6048.7	5831.4	5693.6	5511.1	5293.8	5110.0	4995.8	4942.9	4933.1
22.5°	6483.2	6373.2	6142.0	5896.9	5667.1	5346.8	5005.5	4738.1	4579.4	4508.3	4513.9
25°	6654.6	6501.4	6239.5	5942.9	5533.4	5057.1	4604.4	4275.7	4091.9	4012.5	4009.7
27.5°	6805.0	6630.9	6345.4	5905.3	5284.1	4644.8	4129.5	3809.2	3656.0	3587.7	3576.6
30°	6977.7	6793.8	6486.0	5761.8	4919.2	4168.5	3665.7	3440.1	3331.5	3263.2	3250.7
32.5°	7188.0	7015.3	6601.6	5501.4	4452.6	3671.3	3303.6	3146.2	3047.3	2970.7	2956.8
35°	7494.4	7307.8	6630.9	5128.1	3940.1	3278.5	3037.6	2876.0	2742.3	2643.4	2633.7
37.5°	7878.8	7674.0	6564.0	4644.8	3442.9	3023.7	2816.1	2617.0	2442.9	2303.6	2281.3
40°	8433.1	8123.9	6378.8	4087.7	3076.6	2827.3	2600.3	2373.2	2157.4	1994.4	1962.4
42.5°	9098.8	8651.8	6094.7	3533.4	2807.8	2628.1	2385.8	2104.4	1898.3	1782.7	1766.0
45°	9945.6	9200.5	5700.5	3048.7	2543.2	2429.0	2154.6	1895.5	1767.4	1682.4	1668.5
47.5°	10912.2	9816.1	5286.9	2654.6	2318.9	2242.3	1969.3	1802.2	1700.5	1633.7	1621.2
50°	12100.2	10511.1	4848.2	2331.5	2093.3	2018.1	1881.6	1750.7	1669.9	1618.4	1605.8
52.5°	13440.0	11295.2	4532.0	2076.6	1906.7	1852.4	1835.6	1722.8	1657.4	1618.4	1605.8
55°	14882.9	12093.2	4190.8	1862.1	1745.1	1760.4	1805.0	1725.6	1681.0	1633.7	1615.6
57.5°	16327.2	12917.7	3810.6	1681.0	1617.0	1692.2	1784.1	1731.2	1693.6	1647.6	1630.9
60°	17469.3	13440.0	3221.4	1529.2	1515.3	1617.0	1734.0	1689.4	1640.7	1642.1	1639.3
62.5°	18002.7	13412.2	2571.0	1394.1	1413.6	1515.3	1653.2	1623.9	1583.6	1637.9	1642.1
65°	17703.2	12743.7	2001.4	1271.6	1305.0	1409.5	1569.6	1591.9	1605.8	1710.3	1724.2
67.5°	16447.0	11442.8	1550.1	1164.3	1206.1	1337.0	1578.0	1734.0	1752.1	1862.1	1860.7
69°	15147.5	10222.8	1346.8	1108.6	1157.4	1355.1	1686.6	1824.5	1756.3	1873.2	1856.5
70°	14058.4	9257.6	1238.2	1071.0	1135.1	1387.2	1759.0	1823.1	1735.4	1835.6	1807.8
72.5°	10827.2	6660.1	1050.1	1001.4	1059.9	1327.3	1779.9	1782.7	1686.6	1706.1	1658.8
75°	7426.1	4208.9	916.4	906.7	945.7	1196.4	1713.1	1703.3	1559.9	1532.0	1493.0
77.5°	4094.7	2137.9	778.5	816.2	842.6	1059.9	1557.1	1543.2	1424.8	1366.3	1352.4
80°	1579.4	935.9	657.4	725.6	742.3	917.8	1364.9	1352.4	1253.5	1178.3	1157.4
82.5°	596.1	490.2	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)