

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: P318371

Luminaire Tested: **GAN-SA7C-730-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318371  
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-SA7C-730-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45571 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

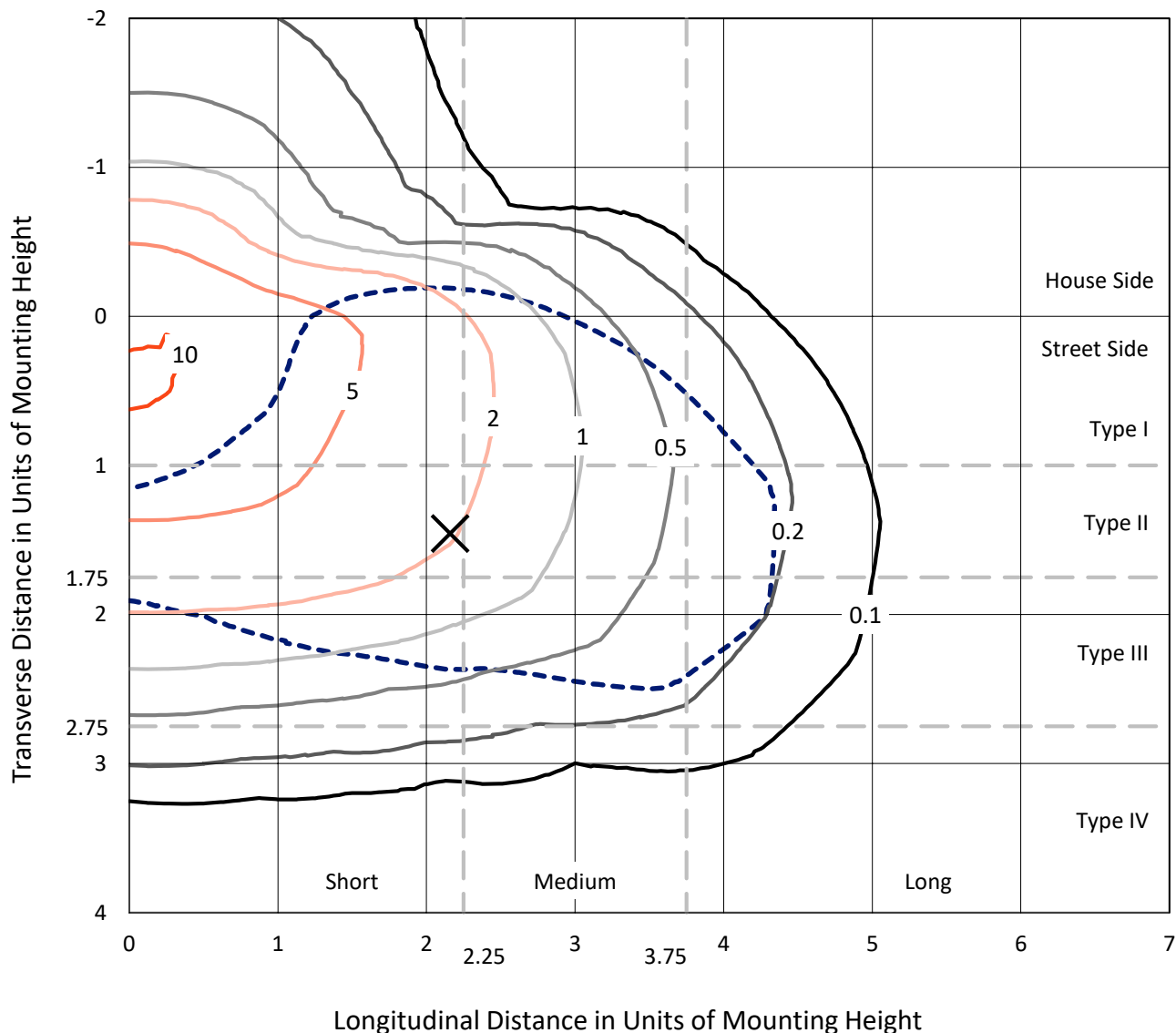
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

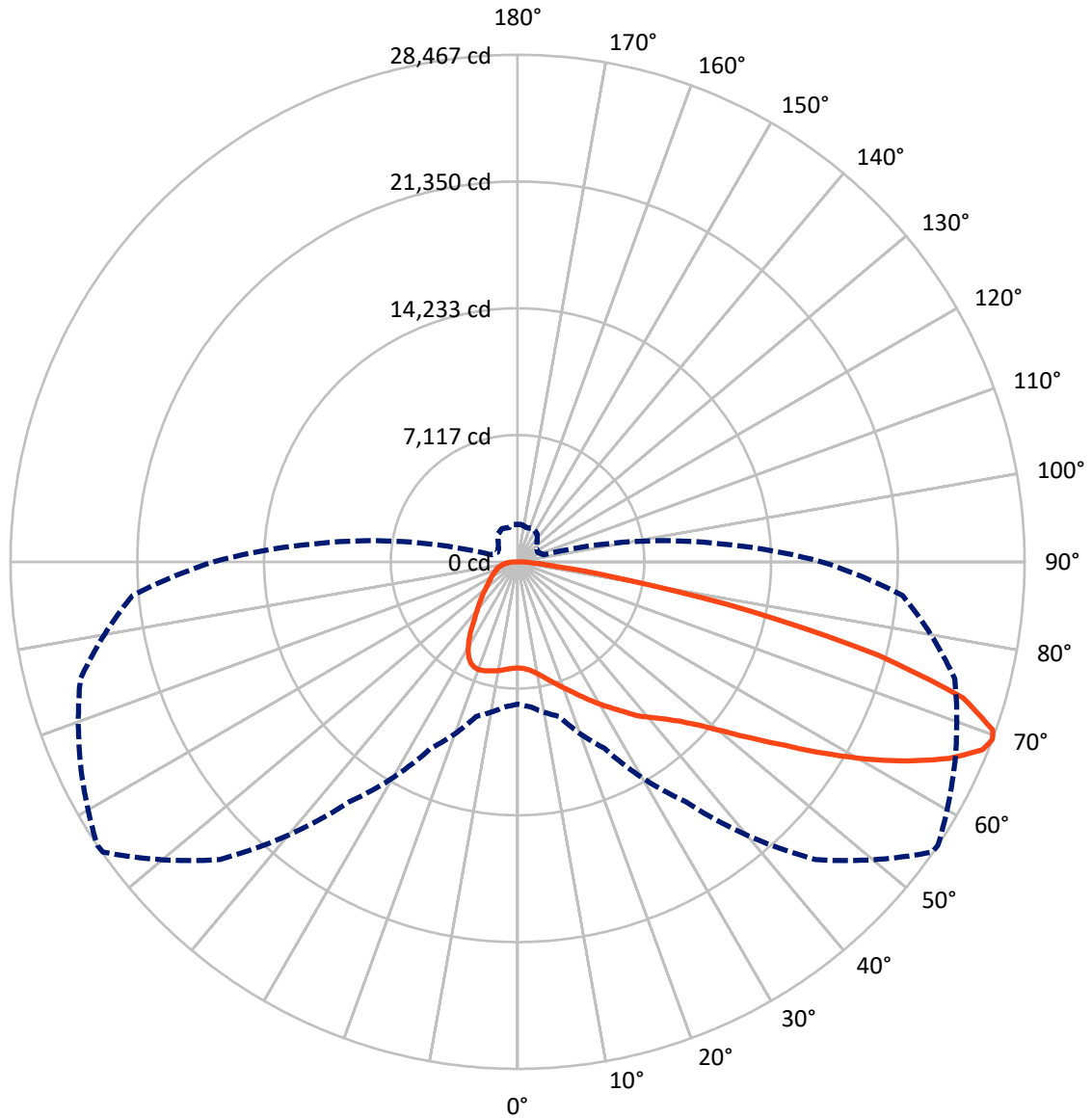
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	10148.6	0.0	10148.6
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	35422.4	0.0	35422.4
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	45571.0	0.0	45571.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	585.1	1.3
10°-20°	1881.6	4.1
20°-30°	3284.5	7.2
30°-40°	4718.1	10.4
40°-50°	6529.6	14.3
50°-60°	9566.8	21.0
60°-70°	11663.7	25.6
70°-80°	6448.5	14.2
80°-90°	893.1	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°	45571.0	100.0
0°-180°	45571.0	100.0

**Coefficient of Utilization**

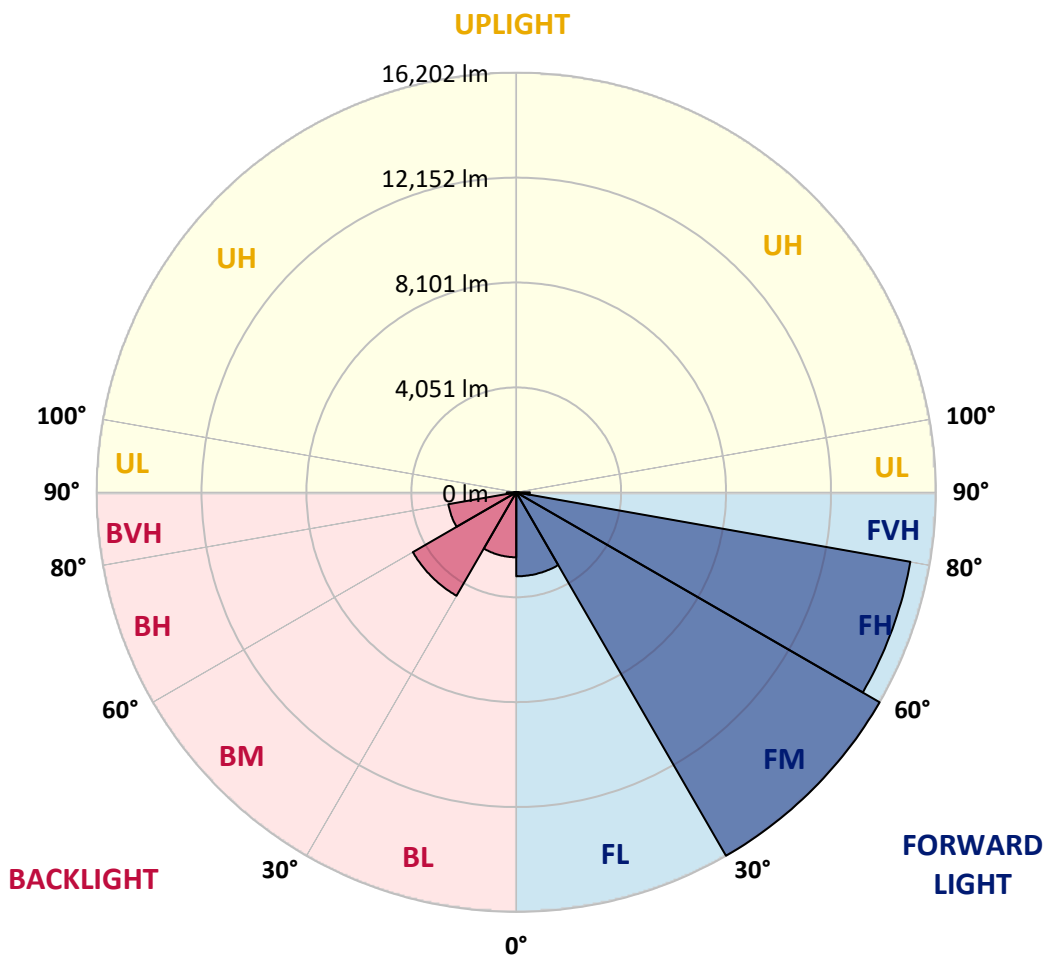


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3243.3	7.1			
FM (30°-60°)	16202.2	35.6			
FH (60°-80°)	15450.9	33.9			G5
FVH (80°-90°)	526.1	1.2			G4/750
BL (0°-30°)	2507.9	5.5	B4/5000		
BM (30°-60°)	4612.3	10.1	B3/5000		
BH (60°-80°)	2661.3	5.8	B4/5000		G4/5000
BVH (80°-90°)	367.0	0.8			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5957.7	5957.7	5957.7	5957.7	5957.7	5957.7	5957.7	5957.7	5957.7	5957.7	5957.7
2.5°	5995.4	6001.7	5997.0	6009.5	5995.4	6004.8	5997.0	5997.0	5992.3	5978.1	5962.4
5°	6089.6	6102.2	6094.3	6106.9	6089.6	6092.7	6078.6	6078.6	6064.5	6034.6	6003.2
7.5°	6237.2	6251.3	6245.0	6257.6	6234.0	6234.0	6215.2	6213.6	6185.4	6136.7	6100.6
10°	6413.0	6431.8	6425.5	6444.4	6425.5	6431.8	6413.0	6413.0	6375.3	6306.2	6260.7
12.5°	6668.9	6692.4	6675.2	6673.6	6665.7	6678.3	6662.6	6659.5	6624.9	6530.7	6467.9
15°	7011.1	7036.2	7000.1	6997.0	6953.0	6948.3	6948.3	6943.6	6921.6	6808.6	6705.0
17.5°	7405.2	7413.0	7381.6	7331.4	7274.9	7238.8	7234.0	7246.6	7246.6	7114.7	6949.9
20°	7791.4	7805.5	7780.4	7723.8	7651.6	7598.3	7560.6	7585.7	7584.1	7427.1	7193.2
22.5°	8212.1	8245.0	8207.4	8135.2	8050.4	7990.7	7924.8	7946.8	7948.3	7755.2	7431.8
25°	8756.8	8727.0	8703.5	8601.4	8480.5	8419.3	8358.1	8380.1	8373.8	8108.5	7678.3
27.5°	9238.8	9245.1	9213.7	9105.3	8965.6	8830.6	8827.5	8841.6	8818.1	8475.8	7910.7
30°	9799.2	9802.4	9758.4	9661.1	9508.8	9334.5	9293.7	9317.3	9267.0	8824.3	8155.6
32.5°	10356.5	10372.2	10323.6	10205.8	10083.4	9871.5	9789.8	9805.5	9679.9	9180.7	8408.3
35°	10844.8	10866.8	10851.1	10772.6	10639.1	10457.0	10359.7	10350.3	10194.8	9617.1	8742.7
37.5°	11342.4	11362.8	11345.6	11279.6	11226.3	11033.2	10981.4	10981.4	10711.3	10063.0	9168.1
40°	11854.2	11885.6	11865.2	11774.2	11728.6	11640.7	11516.7	11486.9	11194.9	10598.3	9862.0
42.5°	12329.9	12370.7	12452.3	12399.0	12306.3	12318.9	12069.3	12053.6	11840.1	11389.5	10733.3
45°	13004.9	13064.6	13202.8	13161.9	13143.1	13074.0	12777.3	12763.2	12681.5	12453.9	11815.0
47.5°	13741.2	13822.9	14072.5	14080.3	14282.8	14152.5	13749.1	13700.4	13719.2	13728.7	13135.2
50°	14419.4	14508.9	14918.6	15111.7	15589.0	15617.2	14972.0	14928.1	15001.8	15218.5	14673.7
52.5°	14961.0	15074.1	15585.8	16182.4	17000.3	17232.7	16477.5	16444.6	16499.5	16873.1	16413.2
55°	15358.2	15480.7	16038.0	17124.3	18430.5	18840.2	18210.7	18179.3	18213.8	18689.5	18304.9
57.5°	15450.8	15480.7	16289.2	17758.6	19637.7	20622.0	20331.6	20268.8	20099.3	20513.7	20392.8
60°	15016.0	15135.3	16081.9	17981.5	20571.8	22378.7	22548.3	22469.8	21994.1	22333.2	22235.9
62.5°	14133.7	14347.2	15308.0	17642.4	20937.6	23813.6	24722.6	24628.4	23808.9	24028.7	23560.9
65°	12692.5	12783.6	13793.0	16472.8	20472.9	24732.0	26661.4	26614.3	25582.9	25239.1	23805.8
67.5°	10114.8	10285.9	11143.1	14028.5	18571.8	24623.7	28160.6	28155.9	26741.5	25688.1	22937.6
69°	7990.7	8168.1	8984.5	11555.9	16433.6	23633.1	28411.8	28466.8	27068.0	25414.9	21697.4
70°	6370.6	6576.3	7136.7	9733.3	14535.6	22326.9	28203.0	28301.9	27005.2	24964.3	20553.0
72.5°	2711.2	2877.6	3276.4	5017.4	8858.9	16672.2	25787.0	26160.6	25549.9	22848.1	16986.2
75°	1183.7	1235.5	1416.0	2045.6	3932.6	9073.9	20201.3	20892.1	21846.6	19312.8	12653.3
77.5°	866.6	888.6	987.5	1201.0	1764.6	3427.1	12990.8	13392.7	15755.4	14053.6	7761.5
80°	670.3	686.0	763.0	882.3	1152.3	1386.2	5924.8	6270.1	8858.9	7218.3	3232.4
82.5°	533.8	544.8	598.1	649.9	795.9	839.9	1967.1	2182.1	3270.1	1993.8	855.6
85°	496.1	508.6	527.5	474.1	510.2	492.9	850.9	890.1	987.5	783.4	357.9
87.5°	224.5	265.3	522.8	368.9	271.6	216.6	348.5	364.2	409.7	411.3	158.6
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°	5957.7	5957.7	5957.7	5957.7	5957.7	5957.7	5957.7	5957.7	5957.7	5957.7	5957.7
2.5°	5971.9	5967.1	5975.0	5956.2	5979.7	5978.1	5970.3	5973.4	5989.1	5987.6	5989.1
5°	6008.0	6004.8	6014.2	6000.1	6028.4	6037.8	6039.4	6053.5	6070.8	6075.5	6075.5
7.5°	6099.0	6099.0	6103.7	6084.9	6103.7	6102.2	6094.3	6108.4	6125.7	6127.3	6125.7
10°	6256.0	6257.6	6249.7	6201.1	6185.4	6143.0	6103.7	6105.3	6127.3	6144.5	6149.2
12.5°	6453.8	6447.5	6413.0	6323.5	6257.6	6171.2	6130.4	6128.8	6150.8	6164.9	6169.7
15°	6679.9	6662.6	6573.1	6427.1	6310.9	6226.2	6160.2	6144.5	6132.0	6116.3	6117.9
17.5°	6893.4	6854.1	6705.0	6502.5	6380.0	6267.0	6139.8	6037.8	5967.1	5926.3	5913.8
20°	7110.0	7033.1	6818.0	6573.1	6417.7	6212.0	5967.1	5759.9	5631.2	5571.5	5560.5
22.5°	7307.8	7183.8	6923.2	6646.9	6387.9	6026.8	5642.2	5340.8	5161.8	5081.7	5088.0
25°	7500.9	7328.2	7033.1	6698.7	6237.2	5700.3	5190.0	4819.6	4612.3	4522.8	4519.7
27.5°	7670.5	7474.2	7152.4	6656.3	5956.2	5235.6	4654.7	4293.6	4121.0	4044.0	4031.5
30°	7865.1	7657.9	7311.0	6494.6	5544.8	4698.7	4131.9	3877.6	3755.2	3678.2	3664.1
32.5°	8102.2	7907.5	7441.3	6201.1	5018.9	4138.2	3723.8	3546.4	3434.9	3348.6	3332.9
35°	8447.6	8237.2	7474.2	5780.3	4441.2	3695.5	3423.9	3241.8	3091.1	2979.6	2968.7
37.5°	8880.9	8650.1	7398.9	5235.6	3880.8	3408.2	3174.3	2949.8	2753.6	2596.6	2571.5
40°	9505.7	9157.2	7190.1	4607.6	3467.9	3186.9	2931.0	2675.1	2431.8	2248.1	2212.0
42.5°	10256.1	9752.1	6869.8	3982.8	3164.9	2962.4	2689.2	2372.1	2139.8	2009.5	1990.6
45°	11210.6	10370.7	6425.5	3436.5	2866.6	2737.9	2428.6	2136.6	1992.2	1896.4	1880.7
47.5°	12300.1	11064.6	5959.3	2992.2	2613.9	2527.5	2219.8	2031.4	1916.8	1841.5	1827.3
50°	13639.2	11847.9	5464.8	2628.0	2359.5	2274.8	2120.9	1973.3	1882.3	1824.2	1810.1
52.5°	15149.4	12731.8	5108.4	2340.7	2149.2	2088.0	2069.1	1942.0	1868.2	1824.2	1810.1
55°	16775.8	13631.3	4723.8	2098.9	1967.1	1984.3	2034.6	1945.1	1894.9	1841.5	1821.1
57.5°	18403.8	14560.7	4295.2	1894.9	1822.6	1907.4	2011.0	1951.4	1909.0	1857.2	1838.3
60°	19691.1	15149.4	3631.1	1723.7	1708.0	1822.6	1954.5	1904.3	1849.3	1850.9	1847.8
62.5°	20292.4	15118.0	2898.0	1571.5	1593.4	1708.0	1863.5	1830.5	1785.0	1846.2	1850.9
65°	19954.8	14364.5	2255.9	1433.3	1471.0	1588.7	1769.3	1794.4	1810.1	1927.8	1943.5
67.5°	18538.8	12898.2	1747.3	1312.4	1359.5	1507.1	1778.7	1954.5	1974.9	2098.9	2097.4
69°	17074.1	11523.0	1518.1	1249.6	1304.6	1527.5	1901.1	2056.6	1979.6	2111.5	2092.7
70°	15846.4	10435.0	1395.6	1207.2	1279.5	1563.6	1982.8	2055.0	1956.1	2069.1	2037.7
72.5°	12204.3	7507.2	1183.7	1128.7	1194.7	1496.1	2006.3	2009.5	1901.1	1923.1	1869.7
75°	8370.6	4744.2	1033.0	1022.0	1066.0	1348.5	1931.0	1920.0	1758.3	1726.9	1682.9
77.5°	4615.5	2409.8	877.6	920.0	949.8	1194.7	1755.1	1739.4	1606.0	1540.1	1524.4
80°	1780.3	1055.0	741.0	817.9	836.7	1034.6	1538.5	1524.4	1412.9	1328.1	1304.6
82.5°	671.9	552.6	612.3	708.0	701.7	854.0	1303.0	1295.2	1186.8	1062.8	1025.1
85°	310.8	331.2	485.1	584.0	538.5	632.7	1042.4	1056.5	924.7	777.1	777.1
87.5°	131.9	185.2	343.8	441.1	362.6	427.0	764.5	730.0	670.3	464.7	436.4
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)