

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: P317719

Luminaire Tested: **GAN-SA5B-730-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317719  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5B-730-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26595 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

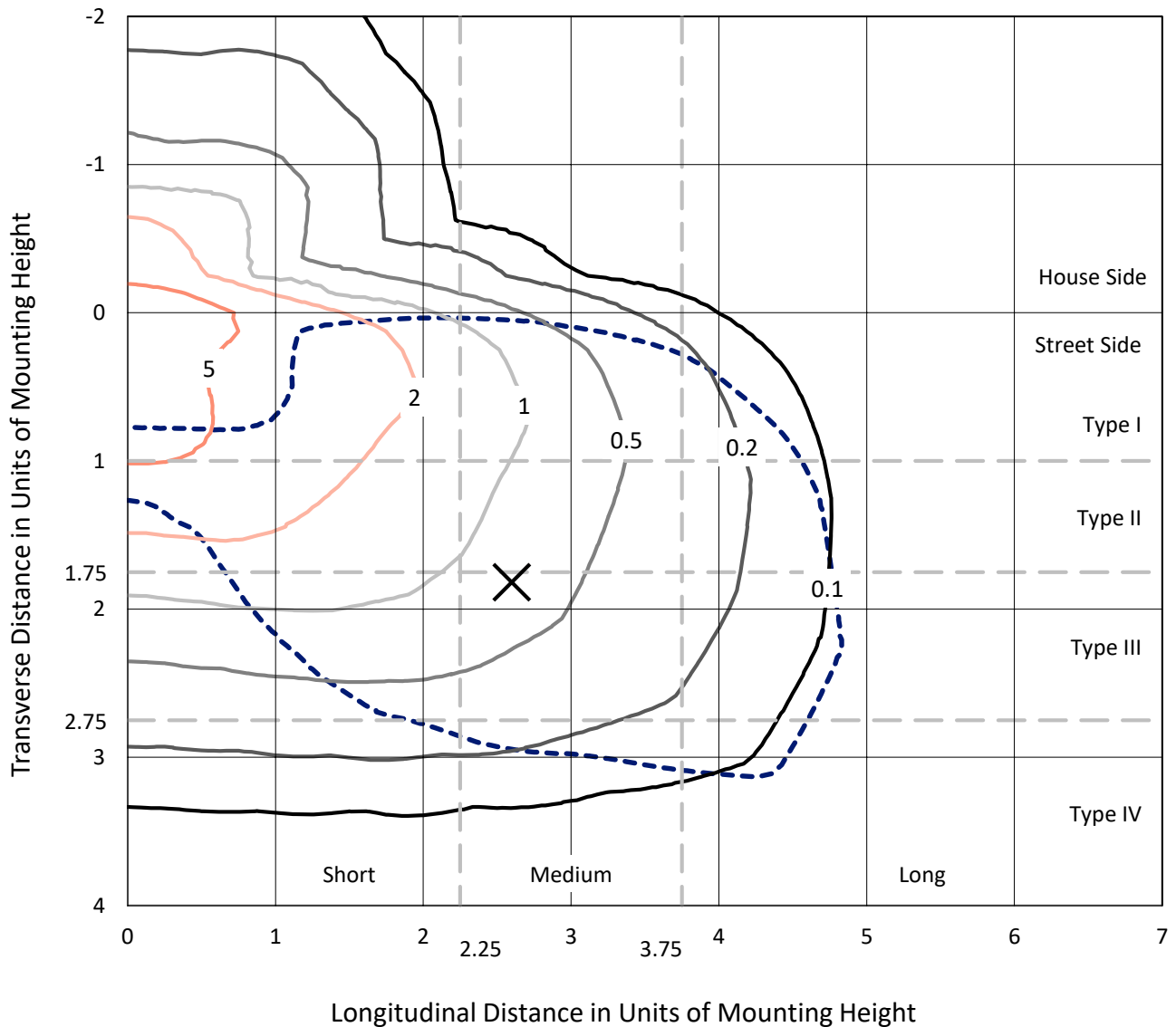
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

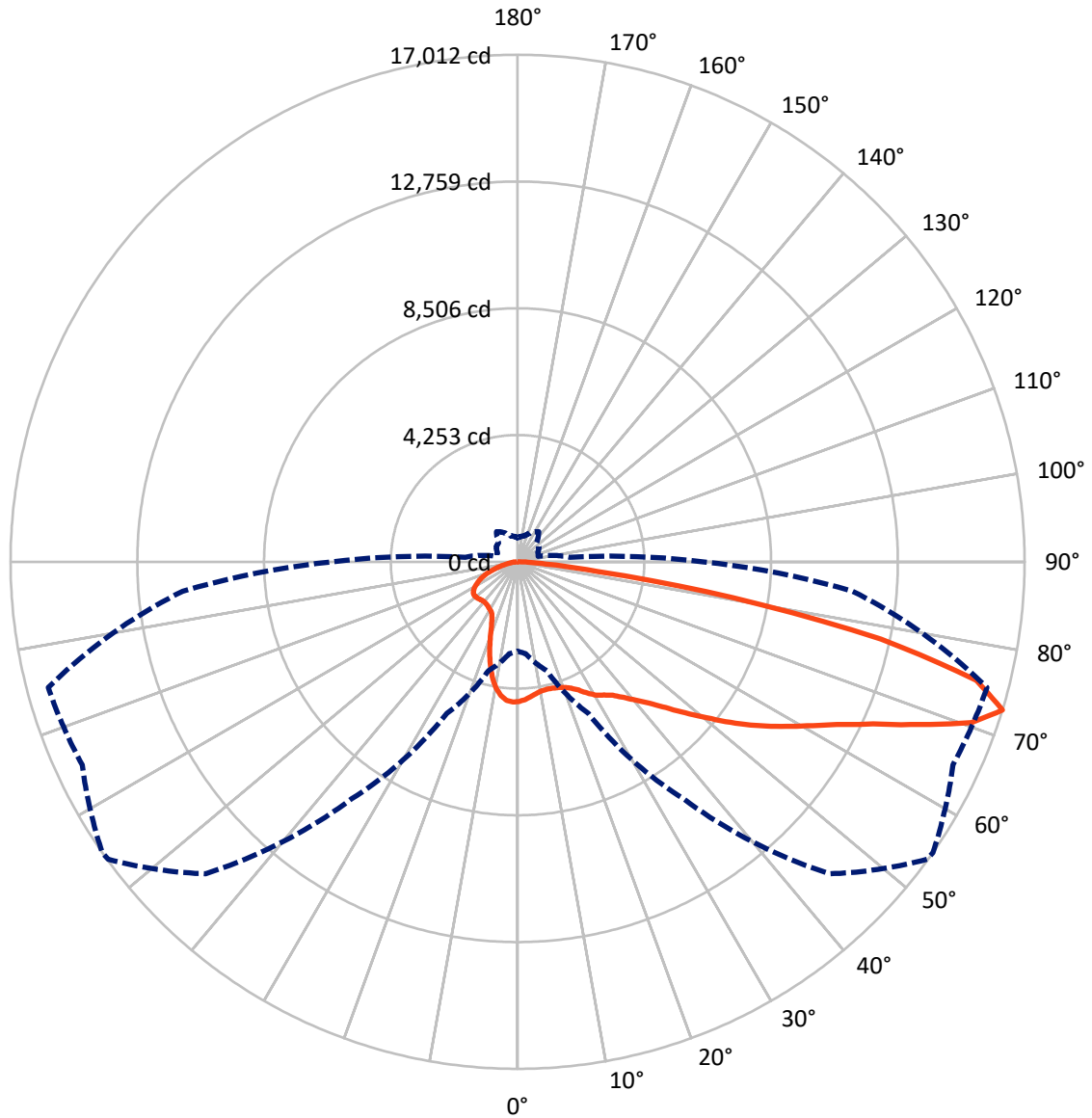
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4943.1	0.0	4943.1
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	21651.9	0.0	21651.9
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	26595.0	0.0	26595.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	424.5	1.6
10°-20°	1130.1	4.2
20°-30°	1863.2	7.0
30°-40°	2756.2	10.4
40°-50°	3847.0	14.5
50°-60°	5008.9	18.8
60°-70°	6155.8	23.1
70°-80°	4825.4	18.1
80°-90°	583.9	2.2
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°	26595.0	100.0
0°-180°	26595.0	100.0

**Coefficient of Utilization**



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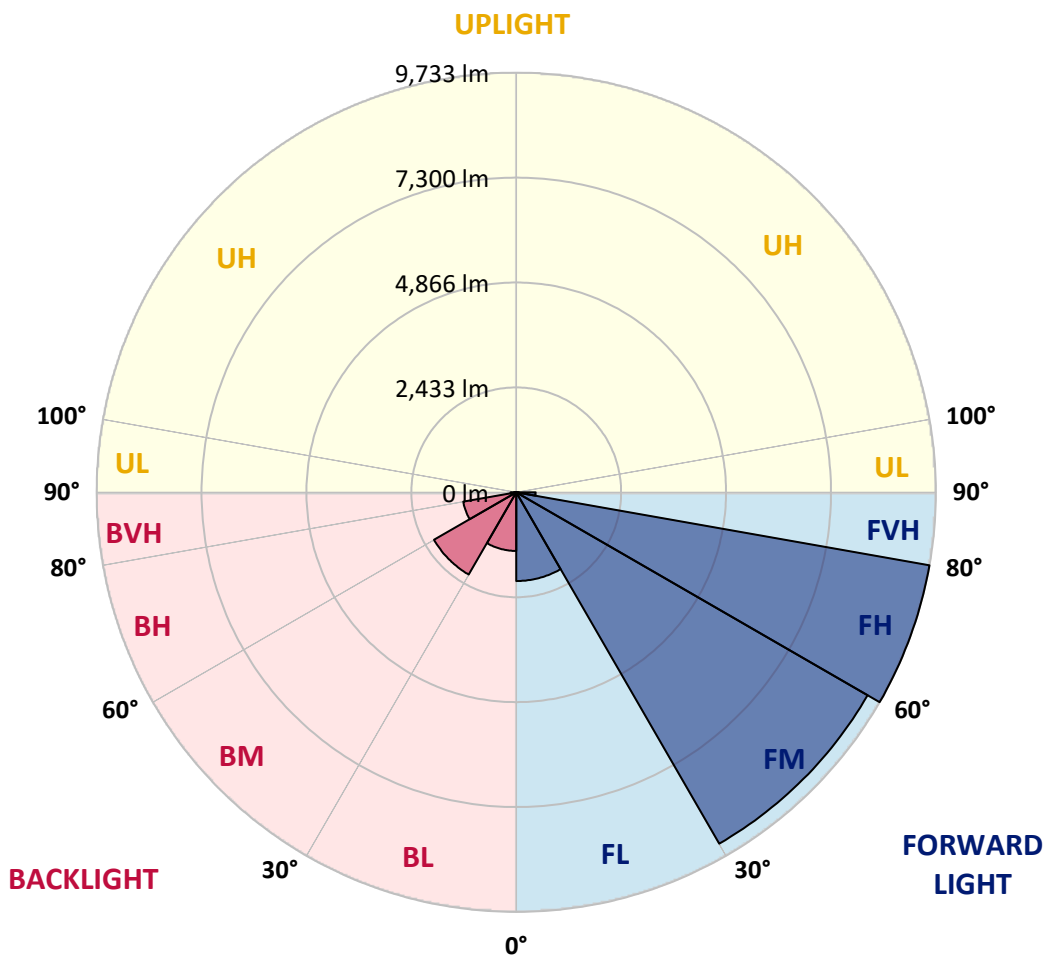
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2057.7	7.7			
FM (30°-60°)	9409.8	35.4			
FH (60°-80°)	9732.9	36.6			G4/12000
FVH (80°-90°)	451.5	1.7			G3/500
BL (0°-30°)	1360.1	5.1	B3/2500		
BM (30°-60°)	2202.2	8.3	B2/2500		
BH (60°-80°)	1248.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	132.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4690.8	4690.8	4690.8	4690.8	4690.8	4690.8	4690.8	4690.8	4690.8	4690.8	4690.8
2.5°	4538.1	4527.3	4540.8	4559.6	4580.3	4608.1	4624.3	4631.5	4659.3	4670.1	4693.5
5°	4327.9	4322.5	4345.0	4377.3	4423.1	4487.8	4539.9	4549.8	4623.4	4675.5	4723.1
7.5°	4175.2	4175.2	4201.2	4239.9	4291.1	4378.2	4451.8	4465.3	4590.2	4702.5	4790.5
10°	4053.9	4058.4	4088.9	4134.8	4194.9	4287.5	4385.4	4400.6	4581.2	4765.3	4905.5
12.5°	3973.1	3983.8	4011.7	4053.0	4127.6	4239.9	4363.8	4384.5	4600.1	4855.2	5043.8
15°	4024.3	4042.2	4044.9	4062.0	4103.3	4225.5	4376.4	4397.9	4640.5	4946.8	5201.0
17.5°	4248.8	4255.1	4227.3	4191.3	4171.6	4249.7	4414.1	4436.6	4689.0	5037.5	5351.9
20°	4590.2	4586.6	4526.4	4429.4	4328.8	4341.4	4476.1	4499.5	4754.6	5117.5	5502.8
22.5°	5021.4	5008.8	4916.3	4737.5	4565.9	4494.1	4584.8	4604.6	4853.4	5231.5	5664.5
25°	5544.1	5516.3	5394.1	5154.3	4901.9	4716.8	4748.3	4767.1	4997.1	5359.1	5812.7
27.5°	6095.7	6067.8	5912.4	5622.3	5286.3	4998.0	4973.7	4989.9	5160.6	5453.4	5922.3
30°	6672.4	6642.7	6500.8	6175.6	5694.2	5289.0	5183.9	5190.2	5275.6	5504.6	6012.1
32.5°	7251.8	7223.9	7064.9	6687.6	6137.0	5601.6	5335.7	5327.7	5344.7	5557.6	6113.7
35°	7839.2	7850.0	7664.1	7246.4	6627.5	5949.3	5515.4	5498.3	5460.6	5666.3	6257.4
37.5°	8468.0	8460.8	8220.1	7783.5	7140.4	6326.5	5773.2	5770.5	5640.3	5872.0	6482.8
40°	8888.4	8892.9	8746.5	8333.3	7658.7	6744.2	6103.8	6097.5	5926.8	6180.1	6778.4
42.5°	9052.8	9082.4	9120.2	8857.9	8201.2	7228.4	6498.1	6489.1	6326.5	6622.1	7126.0
45°	9064.5	9123.8	9357.3	9324.1	8751.0	7782.6	7002.0	6976.9	6860.1	7209.5	7541.0
47.5°	8963.9	9025.0	9413.0	9601.6	9242.3	8367.4	7591.3	7571.5	7470.9	7944.3	7990.1
50°	8743.8	8802.2	9298.0	9737.3	9646.6	8929.7	8270.4	8218.3	8164.4	8793.2	8504.0
52.5°	8331.5	8443.8	9144.4	9769.6	9888.2	9429.2	8984.5	8950.4	8980.0	9688.8	9018.7
55°	7355.1	7480.8	8748.3	9742.7	10067.0	9848.7	9698.7	9696.9	9850.5	10628.4	9571.1
57.5°	6808.0	6896.9	7941.6	9696.9	10278.9	10265.5	10405.6	10422.7	10721.8	11651.5	10149.6
60°	6499.0	6592.4	7532.9	9527.1	10607.7	10804.4	11126.9	11161.1	11607.5	12784.2	10845.8
62.5°	6217.9	6320.3	7279.6	9181.3	10994.9	11575.2	11991.1	12021.6	12545.3	13948.4	11518.6
65°	5737.3	5853.2	6908.6	8954.0	11347.0	12580.3	13089.6	13110.3	13622.3	15168.3	12033.3
67.5°	5058.2	5164.2	6208.9	8451.9	11607.5	13801.1	14550.2	14561.9	14690.4	16029.7	12296.5
70°	4265.0	4305.4	5211.8	7415.3	11299.4	14942.8	16151.0	16153.7	15664.1	16581.2	12253.4
72.5°	2996.6	3091.9	3783.5	5613.3	9710.3	14803.6	16981.9	17012.4	16116.8	16302.8	11274.2
75°	1837.9	1938.5	2373.2	3401.8	6160.4	11642.5	15690.1	15902.1	15268.0	14535.9	9210.0
77.5°	1228.8	1266.6	1548.6	1983.4	2790.9	6698.4	12062.9	12461.8	12683.6	10600.5	5890.0
80°	685.4	757.2	1026.7	1232.4	1241.4	2661.6	7232.9	7326.3	7056.8	4221.0	1817.2
82.5°	362.9	402.4	685.4	724.0	677.3	891.1	2695.7	2698.4	2254.7	1131.8	539.9
85°	281.2	314.4	469.8	442.0	345.8	395.2	889.3	937.8	767.1	463.5	176.1
87.5°	140.1	174.3	318.9	280.3	135.6	113.2	318.0	339.5	302.7	181.5	63.8
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°	4690.8	4690.8	4690.8	4690.8	4690.8	4690.8	4690.8	4690.8	4690.8	4690.8	4690.8
2.5°	4702.5	4710.5	4720.4	4709.6	4706.1	4691.7	4667.4	4662.0	4649.5	4650.4	4657.5
5°	4743.8	4757.3	4751.9	4710.5	4661.1	4592.0	4520.1	4459.0	4418.6	4415.9	4413.2
7.5°	4822.8	4831.8	4789.6	4671.9	4533.6	4373.7	4222.8	4090.7	4010.8	3991.0	3986.5
10°	4946.8	4945.0	4829.1	4592.0	4316.2	4030.6	3788.0	3604.8	3497.9	3466.4	3458.4
12.5°	5085.1	5064.5	4842.6	4446.5	4009.0	3612.9	3305.6	3101.7	2990.4	2954.4	2945.4
15°	5228.0	5176.8	4809.4	4229.1	3631.7	3162.8	2840.3	2651.7	2591.5	2571.8	2568.2
17.5°	5360.9	5262.1	4714.1	3934.4	3201.4	2714.6	2463.1	2387.6	2402.0	2428.0	2428.9
20°	5491.1	5319.6	4561.4	3562.6	2747.8	2345.4	2260.1	2315.7	2384.0	2437.0	2444.2
22.5°	5619.6	5360.0	4364.7	3133.2	2341.8	2137.9	2198.1	2299.6	2377.7	2435.2	2445.1
25°	5727.4	5369.9	4093.4	2675.1	2059.7	2059.7	2168.4	2264.5	2341.8	2398.4	2408.3
27.5°	5766.9	5303.4	3710.8	2251.1	1917.8	2023.8	2127.1	2207.1	2272.6	2332.8	2343.6
30°	5782.2	5180.3	3268.8	1910.6	1859.4	1985.2	2071.4	2139.7	2201.7	2258.3	2268.1
32.5°	5784.9	5032.1	2799.9	1717.5	1819.0	1944.8	2002.3	2062.4	2128.9	2151.4	2155.0
35°	5802.0	4857.0	2305.9	1618.7	1781.3	1907.0	1952.8	1996.0	1888.2	1896.3	1903.4
37.5°	5851.4	4683.6	1892.7	1563.0	1757.0	1887.3	1942.1	1785.8	1701.3	1681.6	1678.9
40°	5943.9	4498.6	1586.4	1518.1	1748.0	1897.2	1872.9	1667.2	1521.7	1413.0	1396.8
42.5°	6072.3	4299.1	1390.5	1488.4	1754.3	1944.8	1776.8	1553.1	1311.5	1241.4	1232.4
45°	6217.0	4089.8	1284.5	1467.8	1775.9	1981.6	1757.0	1401.3	1213.6	1160.6	1156.1
47.5°	6357.1	3833.8	1229.7	1458.8	1805.5	1951.9	1673.5	1354.6	1166.9	1139.0	1141.7
50°	6517.9	3603.0	1196.5	1448.9	1831.6	1933.1	1579.2	1330.3	1148.9	1183.0	1219.0
52.5°	6653.5	3364.0	1166.9	1429.2	1841.5	1899.8	1554.9	1334.8	1148.9	1214.5	1248.6
55°	6814.3	3183.5	1132.7	1387.8	1822.6	1805.5	1537.8	1361.8	1162.4	1121.0	1124.6
57.5°	7021.8	3124.2	1095.0	1323.2	1759.7	1668.1	1529.8	1387.8	1154.3	1128.2	1137.2
60°	7309.3	3187.1	1079.7	1238.7	1661.8	1560.3	1530.7	1374.4	1097.7	1052.8	1053.7
62.5°	7583.2	3257.1	1078.8	1185.7	1541.4	1464.2	1510.0	1330.3	1068.9	1042.9	1052.8
65°	7673.1	3186.2	1035.7	1126.4	1405.8	1349.2	1472.3	1283.6	1047.4	1007.9	1006.1
67.5°	7552.7	2966.1	948.6	1030.3	1250.4	1215.4	1422.9	1227.9	1013.3	980.9	975.5
70°	7195.2	2474.7	840.8	903.7	1073.4	1064.5	1344.7	1163.3	967.4	939.6	916.2
72.5°	6233.1	1763.3	708.7	751.9	874.0	902.8	1236.9	1078.8	902.8	842.6	806.6
75°	5119.3	1305.2	582.1	591.1	663.8	742.0	1088.7	980.0	826.4	724.0	696.2
77.5°	3135.0	798.6	463.5	467.1	476.1	592.0	896.5	869.5	729.4	603.6	583.9
80°	1015.0	435.7	335.1	352.1	325.2	433.9	693.5	740.2	626.1	504.8	483.3
82.5°	386.3	254.2	226.4	238.0	225.5	291.0	505.7	592.9	512.9	415.0	337.8
85°	186.8	143.7	133.8	150.0	139.2	149.1	323.4	436.6	389.0	270.4	251.5
87.5°	66.5	63.8	51.2	69.2	59.3	53.0	98.8	220.1	256.9	185.9	166.2
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)