

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: P317738

Luminaire Tested: **GAN-SA4D-730-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317738  
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-SA4D-730-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29143 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

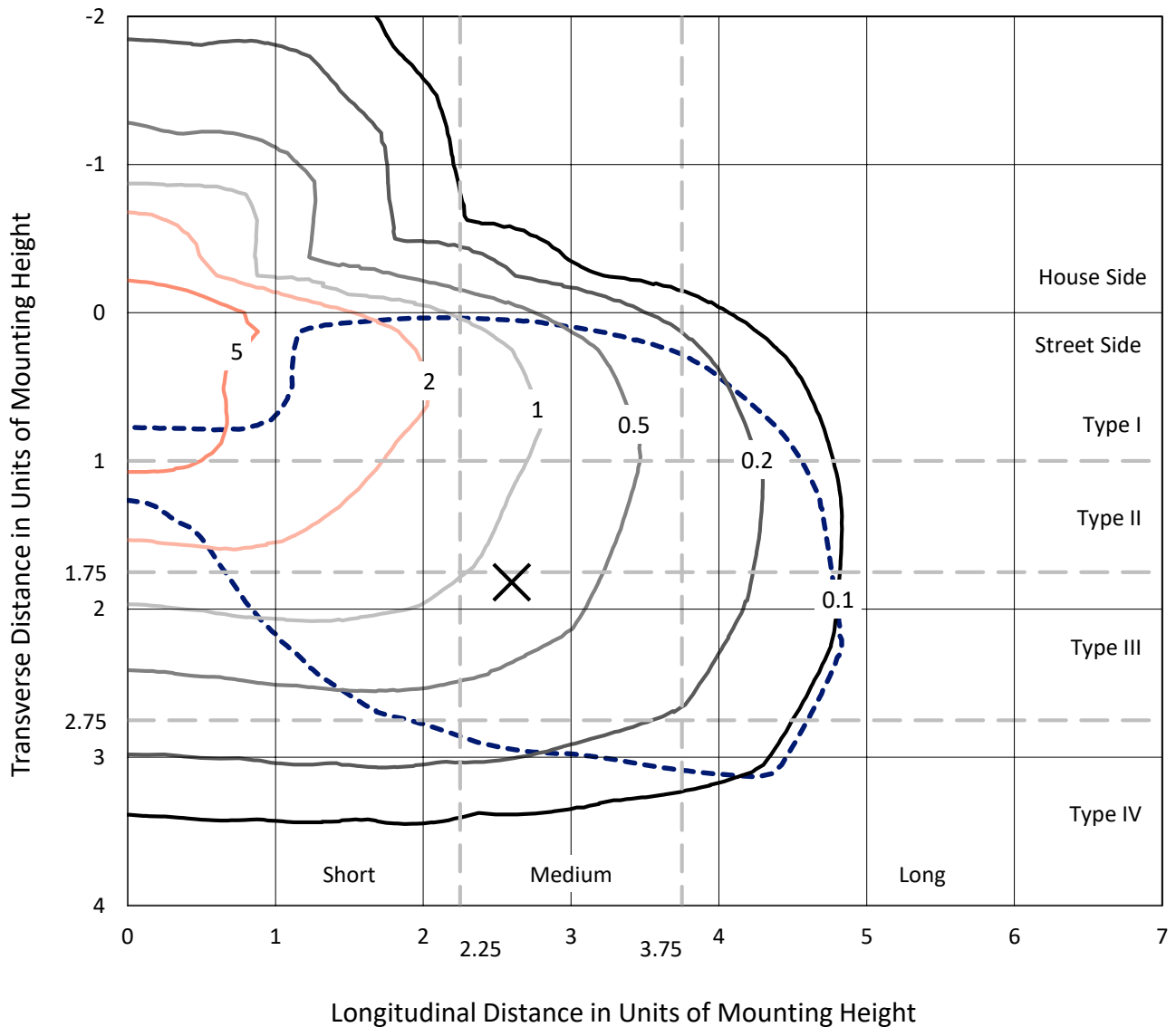
Input Watts (W): 258  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P317738  
 CATALOG NUMBER: GAN-SA4D-730-U-T3R

### Iso-Footcandle Lines of Horizontal Illumination

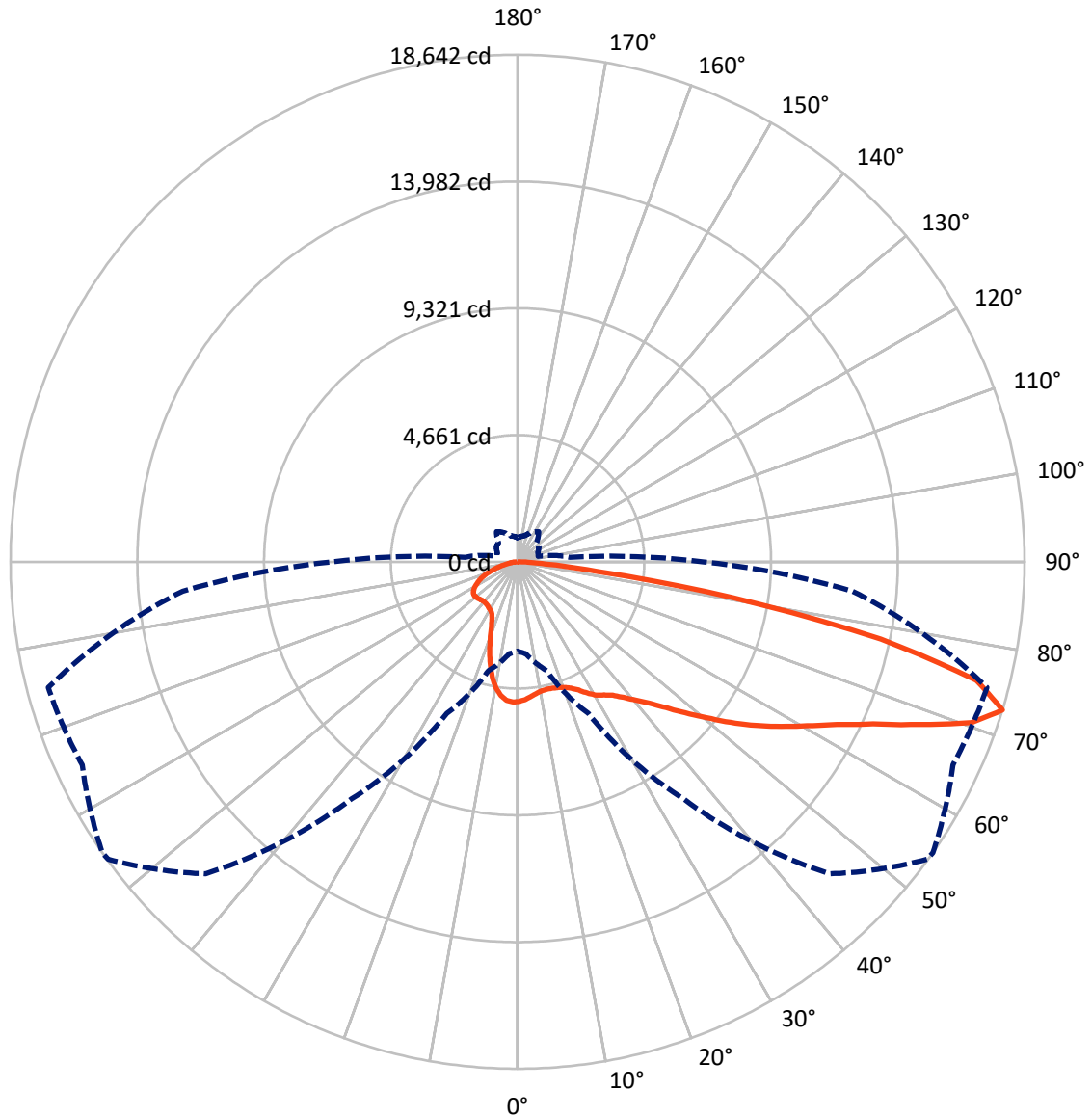
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P317738  
CATALOG NUMBER: GAN-SA4D-730-U-T3R

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P317738  
 CATALOG NUMBER: GAN-SA4D-730-U-T3R

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5416.7	0.0	5416.7
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	23726.3	0.0	23726.3
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	29143.0	0.0	29143.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	465.1	1.6
10°-20°	1238.3	4.2
20°-30°	2041.7	7.0
30°-40°	3020.2	10.4
40°-50°	4215.6	14.5
50°-60°	5488.8	18.8
60°-70°	6745.6	23.1
70°-80°	5287.7	18.1
80°-90°	639.9	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°	29143.0	100.0
0°-180°	29143.0	100.0

**Coefficient of Utilization**

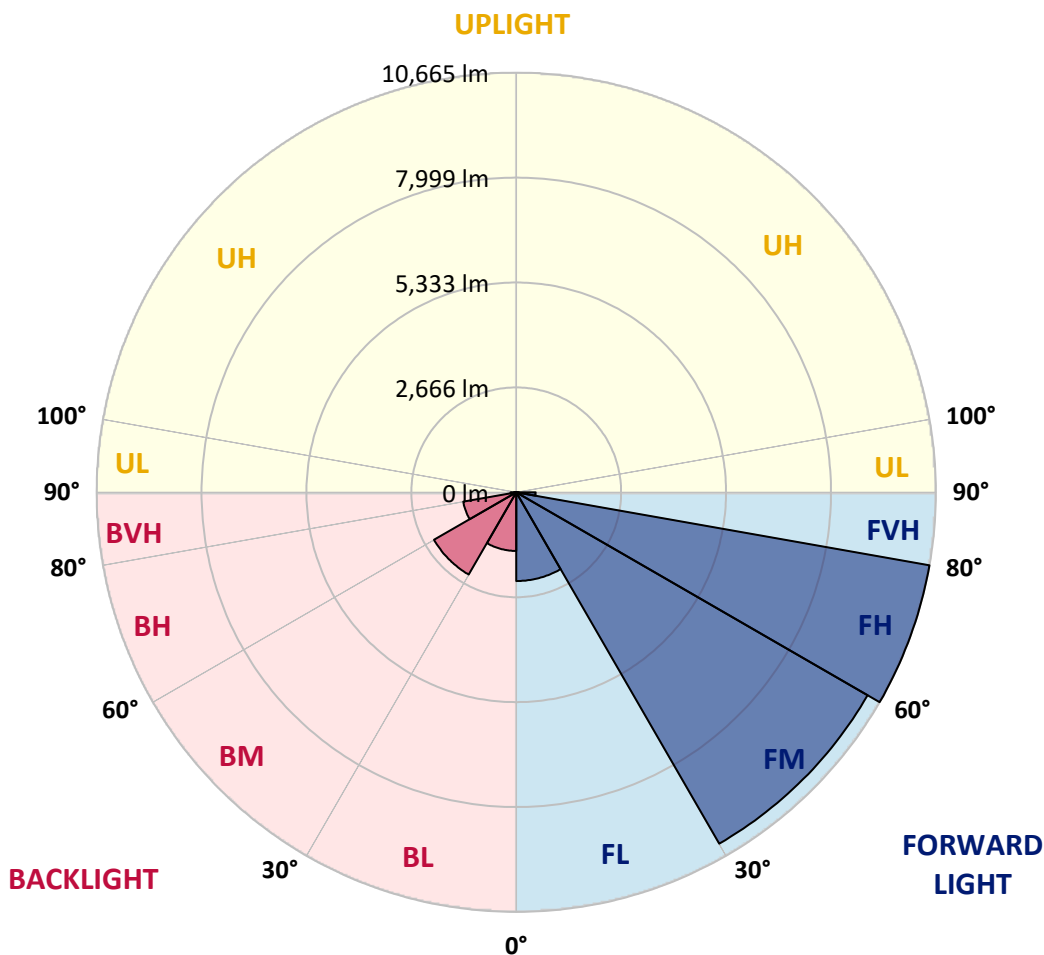


REPORT NUMBER: P317738  
 CATALOG NUMBER: GAN-SA4D-730-U-T3R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2254.8	7.7			
FM (30°-60°)	10311.4	35.4			
FH (60°-80°)	10665.3	36.6			G4/12000
FVH (80°-90°)	494.7	1.7			G3/500
BL (0°-30°)	1490.4	5.1	B3/2500		
BM (30°-60°)	2413.2	8.3	B2/2500		
BH (60°-80°)	1368.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	145.2	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





REPORT NUMBER: P317738

CATALOG NUMBER: GAN-SA4D-730-U-T3R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5140.2	5140.2	5140.2	5140.2	5140.2	5140.2	5140.2	5140.2	5140.2	5140.2	5140.2
2.5°	4972.9	4961.0	4975.8	4996.5	5019.1	5049.6	5067.4	5075.2	5105.7	5117.6	5143.2
5°	4742.5	4736.6	4761.2	4796.7	4846.9	4917.7	4974.8	4985.7	5066.4	5123.5	5175.6
7.5°	4575.2	4575.2	4603.7	4646.1	4702.2	4797.6	4878.4	4893.1	5030.0	5153.0	5249.5
10°	4442.3	4447.2	4480.7	4530.9	4596.8	4698.2	4805.5	4822.3	5020.1	5221.9	5375.5
12.5°	4353.7	4365.5	4396.0	4441.3	4523.0	4646.1	4781.9	4804.5	5040.8	5320.3	5527.0
15°	4409.8	4429.5	4432.5	4451.2	4496.4	4630.3	4795.7	4819.3	5085.1	5420.7	5699.3
17.5°	4655.9	4662.8	4632.3	4592.9	4571.3	4656.9	4837.0	4861.6	5138.2	5520.2	5864.7
20°	5030.0	5026.0	4960.1	4853.8	4743.5	4757.3	4904.9	4930.5	5210.1	5607.8	6030.0
22.5°	5502.4	5488.7	5387.3	5191.4	5003.4	4924.6	5024.0	5045.7	5318.4	5732.8	6207.2
25°	6075.3	6044.8	5910.9	5648.1	5371.5	5168.7	5203.2	5223.9	5475.9	5872.5	6369.6
27.5°	6679.7	6649.2	6478.9	6161.0	5792.8	5476.8	5450.3	5468.0	5655.0	5975.9	6489.7
30°	7311.6	7279.2	7123.6	6767.3	6239.7	5795.8	5680.6	5687.5	5781.0	6032.0	6588.2
32.5°	7946.5	7916.0	7741.8	7328.4	6725.0	6138.3	5847.0	5838.1	5856.8	6090.1	6699.4
35°	8590.3	8602.1	8398.3	7940.6	7262.4	6519.3	6043.8	6025.1	5983.8	6209.2	6856.9
37.5°	9279.3	9271.5	9007.7	8529.3	7824.5	6932.7	6326.3	6323.4	6180.6	6434.6	7103.9
40°	9740.0	9744.9	9584.5	9131.7	8392.4	7390.4	6688.6	6681.7	6494.6	6772.2	7427.8
42.5°	9920.1	9952.6	9994.0	9706.5	8987.0	7920.9	7120.7	7110.8	6932.7	7256.5	7808.7
45°	9932.9	9997.9	10253.8	10217.4	9589.4	8528.3	7672.9	7645.3	7517.4	7900.3	8263.5
47.5°	9822.7	9889.6	10314.8	10521.6	10127.8	9169.1	8318.6	8297.0	8186.7	8705.5	8755.7
50°	9581.5	9645.5	10188.9	10670.2	10570.8	9785.3	9062.8	9005.7	8946.6	9635.7	9318.7
52.5°	9129.7	9252.8	10020.5	10705.6	10835.6	10332.6	9845.3	9807.9	9840.4	10617.0	9882.7
55°	8059.7	8197.5	9586.4	10676.1	11031.4	10792.3	10627.9	10625.9	10794.2	11646.7	10488.1
57.5°	7460.3	7557.7	8702.5	10625.9	11263.7	11249.0	11402.5	11421.2	11749.0	12767.8	11122.0
60°	7121.7	7224.0	8254.6	10439.9	11624.0	11839.6	12193.0	12230.4	12719.6	14009.1	11884.9
62.5°	6813.6	6925.8	7977.1	10060.9	12048.3	12684.1	13139.9	13173.4	13747.2	15284.8	12622.1
65°	6286.9	6413.9	7570.5	9811.9	12434.1	13785.6	14343.7	14366.4	14927.4	16621.5	13186.2
67.5°	5542.8	5658.9	6803.7	9261.6	12719.6	15123.3	15944.3	15957.1	16097.8	17565.5	13474.6
70°	4673.6	4717.9	5711.1	8125.7	12382.0	16374.4	17698.3	17701.3	17164.8	18169.8	13427.3
72.5°	3283.7	3388.1	4146.0	6151.1	10640.7	16221.8	18608.9	18642.3	17660.9	17864.7	12354.4
75°	2013.9	2124.2	2600.6	3727.7	6750.6	12758.0	17193.4	17425.7	16730.7	15928.5	10092.4
77.5°	1346.6	1387.9	1697.0	2173.4	3058.3	7340.2	13218.6	13655.7	13898.8	11616.1	6454.3
80°	751.0	829.8	1125.1	1350.5	1360.4	2916.6	7925.9	8028.2	7732.9	4625.4	1991.3
82.5°	397.7	441.0	751.0	793.4	742.2	976.5	2954.0	2956.9	2470.7	1240.3	591.6
85°	308.1	344.5	514.8	484.3	379.0	433.1	974.5	1027.6	840.6	507.9	192.9
87.5°	153.6	191.0	349.4	307.1	148.6	124.0	348.5	372.1	331.7	198.8	69.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P317738  
 CATALOG NUMBER: GAN-SA4D-730-U-T3R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5140.2	5140.2	5140.2	5140.2	5140.2	5140.2	5140.2	5140.2	5140.2	5140.2	5140.2
2.5°	5153.0	5161.9	5172.7	5160.9	5156.9	5141.2	5114.6	5108.7	5094.9	5095.9	5103.8
5°	5198.3	5213.0	5207.1	5161.9	5107.7	5031.9	4953.2	4886.2	4841.9	4839.0	4836.0
7.5°	5284.9	5294.7	5248.5	5119.5	4967.9	4792.7	4627.4	4482.7	4395.1	4373.4	4368.5
10°	5420.7	5418.8	5291.8	5031.9	4729.7	4416.7	4150.9	3950.1	3833.0	3798.5	3789.7
12.5°	5572.3	5549.7	5306.6	4872.5	4393.1	3959.0	3622.4	3398.9	3276.9	3237.5	3227.6
15°	5728.8	5672.7	5270.1	4634.2	3979.7	3465.8	3112.5	2905.8	2839.8	2818.2	2814.2
17.5°	5874.5	5766.2	5165.8	4311.4	3508.2	2974.7	2699.0	2616.4	2632.1	2660.7	2661.6
20°	6017.2	5829.2	4998.5	3903.9	3011.1	2570.1	2476.6	2537.6	2612.4	2670.5	2678.4
22.5°	6158.0	5873.5	4782.9	3433.4	2566.2	2342.7	2408.7	2519.9	2605.5	2668.5	2679.4
25°	6276.1	5884.4	4485.6	2931.4	2257.1	2257.1	2376.2	2481.5	2566.2	2628.2	2639.0
27.5°	6319.4	5811.5	4066.3	2466.7	2101.6	2217.7	2330.9	2418.5	2490.4	2556.3	2568.1
30°	6336.2	5676.7	3582.0	2093.7	2037.6	2175.4	2269.9	2344.7	2412.6	2474.6	2485.4
32.5°	6339.1	5514.2	3068.2	1882.0	1993.3	2131.1	2194.1	2260.0	2332.9	2357.5	2361.4
35°	6357.8	5322.3	2526.8	1773.8	1951.9	2089.7	2139.9	2187.2	2069.1	2077.9	2085.8
37.5°	6412.0	5132.3	2074.0	1712.7	1925.4	2068.1	2128.1	1956.9	1864.3	1842.7	1839.7
40°	6513.3	4929.6	1738.3	1663.5	1915.5	2078.9	2052.3	1826.9	1667.5	1548.4	1530.6
42.5°	6654.1	4711.0	1523.8	1631.0	1922.4	2131.1	1947.0	1701.9	1437.1	1360.4	1350.5
45°	6812.6	4481.7	1407.6	1608.4	1946.0	2171.4	1925.4	1535.6	1329.8	1271.8	1266.8
47.5°	6966.1	4201.1	1347.6	1598.6	1978.5	2139.0	1833.8	1484.4	1278.7	1248.1	1251.1
50°	7142.3	3948.2	1311.1	1587.7	2007.1	2118.3	1730.5	1457.8	1259.0	1296.4	1335.7
52.5°	7291.0	3686.3	1278.7	1566.1	2017.9	2081.9	1703.9	1462.7	1259.0	1330.8	1368.2
55°	7467.2	3488.5	1241.2	1520.8	1997.2	1978.5	1685.2	1492.3	1273.7	1228.5	1232.4
57.5°	7694.5	3423.5	1199.9	1449.9	1928.3	1827.9	1676.3	1520.8	1264.9	1236.3	1246.2
60°	8009.5	3492.4	1183.2	1357.4	1821.0	1709.8	1677.3	1506.0	1202.9	1153.6	1154.6
62.5°	8309.8	3569.2	1182.2	1299.3	1689.1	1604.5	1654.7	1457.8	1171.4	1142.8	1153.6
65°	8408.2	3491.4	1134.9	1234.4	1540.5	1478.5	1613.3	1406.6	1147.7	1104.4	1102.5
67.5°	8276.3	3250.3	1039.5	1129.0	1370.2	1331.8	1559.2	1345.6	1110.3	1074.9	1069.0
70°	7884.5	2711.8	921.3	990.2	1176.3	1166.4	1473.5	1274.7	1060.1	1029.6	1004.0
72.5°	6830.3	1932.2	776.6	823.9	957.8	989.3	1355.4	1182.2	989.3	923.3	883.9
75°	5609.7	1430.2	637.8	647.7	727.4	813.1	1193.0	1073.9	905.6	793.4	762.9
77.5°	3435.3	875.1	507.9	511.9	521.7	648.7	982.4	952.8	799.3	661.5	639.8
80°	1112.3	477.4	367.2	385.9	356.3	475.4	759.9	811.1	686.1	553.2	529.6
82.5°	423.3	278.6	248.1	260.8	247.1	318.9	554.2	649.7	562.1	454.8	370.1
85°	204.7	157.5	146.7	164.4	152.6	163.4	354.4	478.4	426.2	296.3	275.6
87.5°	72.8	69.9	56.1	75.8	65.0	58.1	108.3	241.2	281.5	203.8	182.1
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)