

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: P190981

Luminaire Tested: **GAN-AF-03-LED-U-AFL-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190981  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-03-LED-U-AFL-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20921.4 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

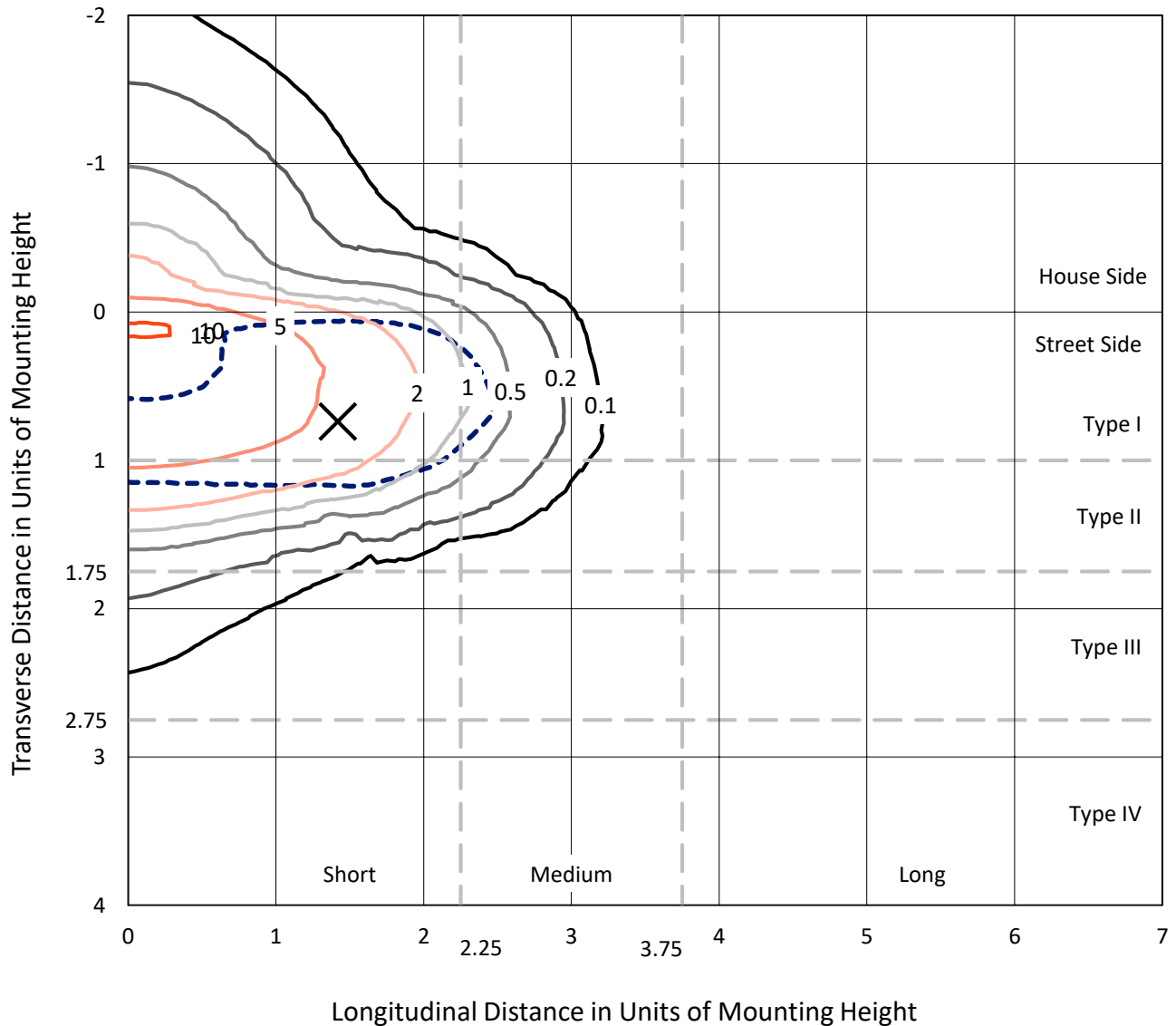
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

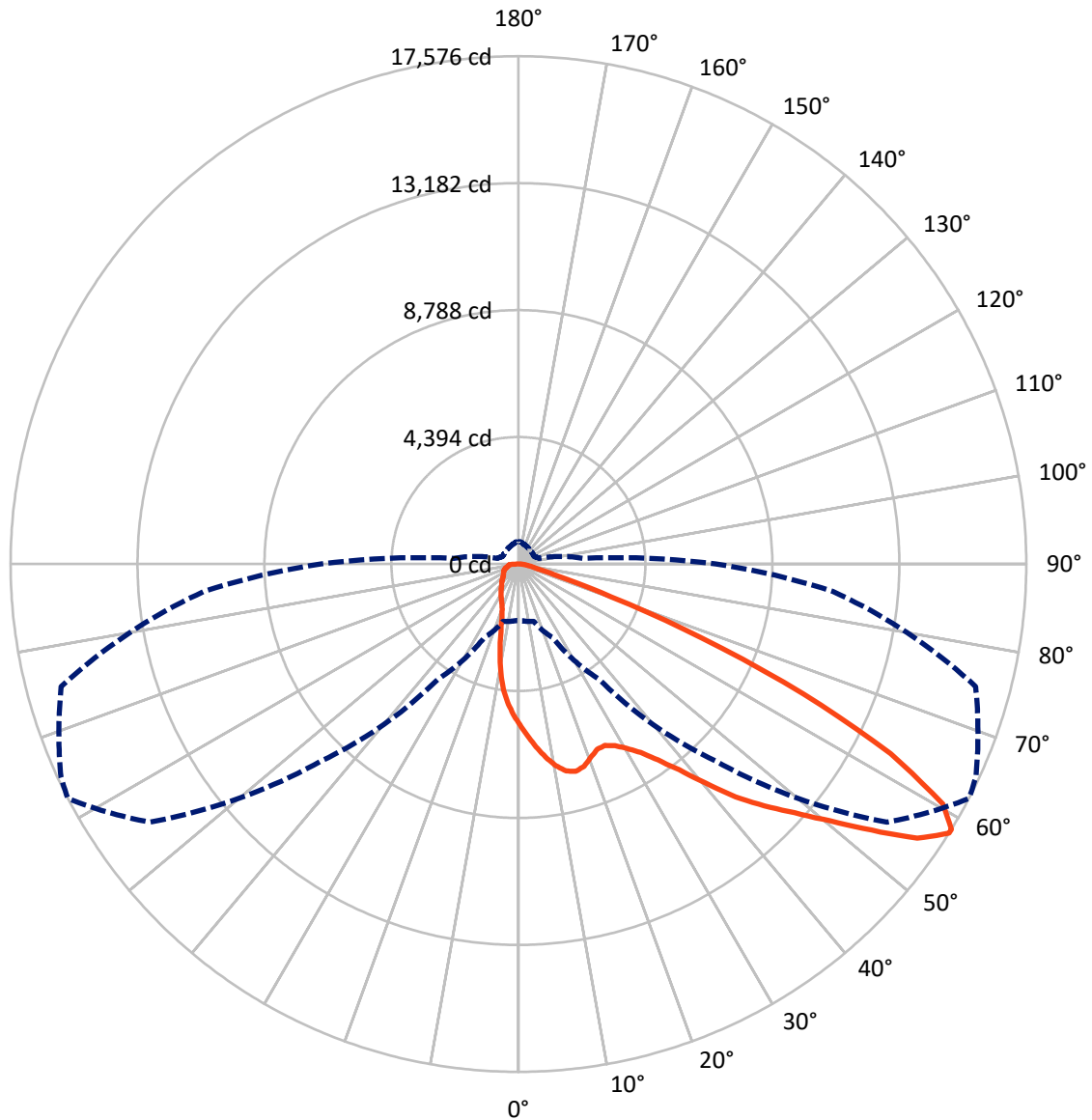
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3190.6	0.0	3190.6
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	17730.8	0.0	17730.8
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	20921.4	0.0	20921.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	497.0	2.4
10°-20°	1270.5	6.1
20°-30°	2053.7	9.8
30°-40°	3260.3	15.6
40°-50°	4770.5	22.8
50°-60°	4989.6	23.8
60°-70°	2947.8	14.1
70°-80°	830.4	4.0
80°-90°	301.5	1.4
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°	20921.4	100.0
0°-180°	20921.4	100.0



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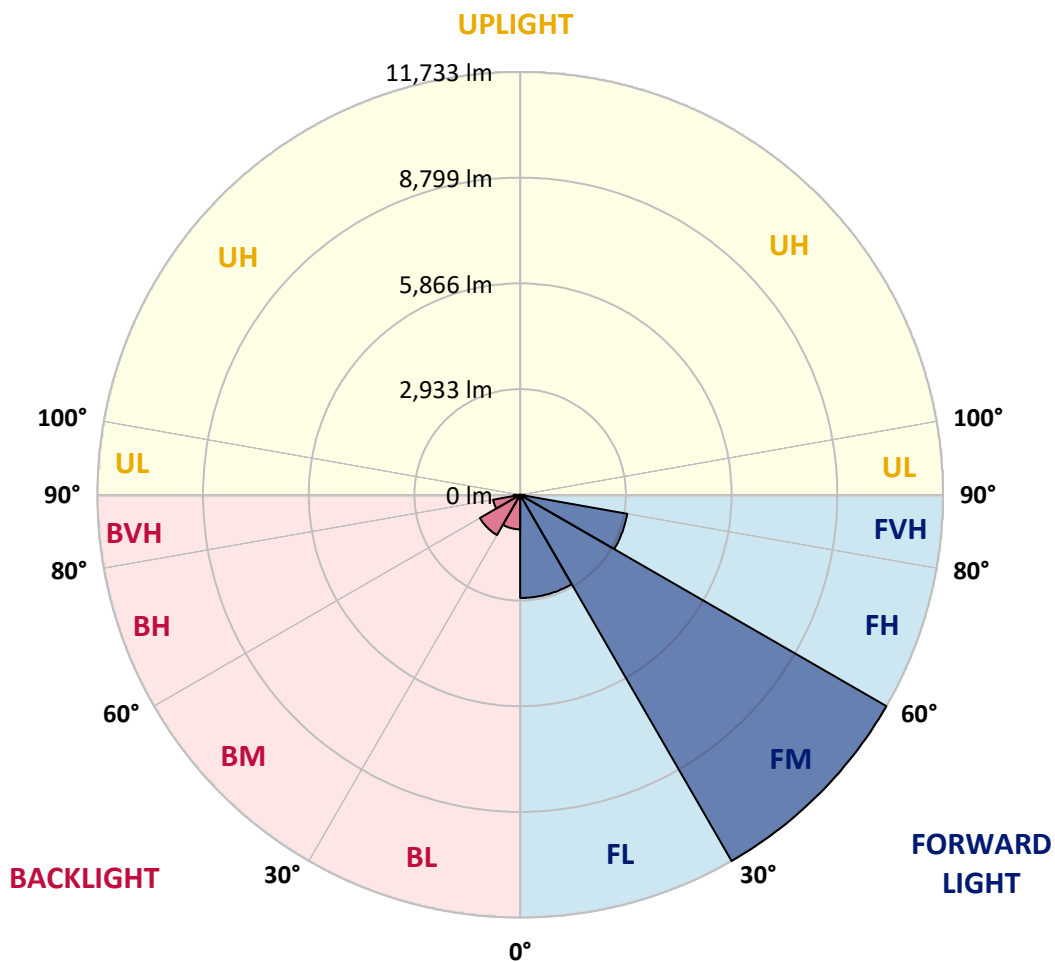
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2862.3	13.7			
FM (30°-60°)	11732.6	56.1			
FH (60°-80°)	3016.9	14.4			G2/5000
FVH (80°-90°)	118.9	0.6			G2/225
BL (0°-30°)	958.9	4.6	B2/1000		
BM (30°-60°)	1287.8	6.2	B2/2500		
BH (60°-80°)	761.3	3.6	B2/1000		G2/1000
BVH (80°-90°)	182.6	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	5557.4	5557.4	5557.4	5557.4	5557.4	5557.4	5557.4	5557.4	5557.4	5557.4	5557.4
2.5°	6350.4	6299.1	6266.7	6238.1	6200.6	6120.8	6013.5	5945.5	5911.0	5793.8	5654.9
5°	6973.0	6927.7	6894.2	6855.8	6788.8	6663.7	6490.3	6352.4	6284.4	6049.9	5772.1
7.5°	6827.2	6845.9	6904.1	7005.6	7092.2	7075.4	6920.8	6745.4	6655.8	6329.7	5908.1
10°	5948.5	5981.0	6081.4	6318.9	6703.1	7097.1	7217.3	7096.2	7005.6	6606.5	6048.0
12.5°	5772.1	5771.1	5779.0	5842.1	6070.6	6625.2	7227.2	7349.4	7295.2	6870.5	6190.8
15°	5844.0	5846.0	5840.1	5866.7	5937.6	6157.3	6925.8	7446.9	7485.3	7136.6	6338.6
17.5°	6033.2	6028.2	6005.6	6005.6	6031.2	6116.9	6571.1	7356.2	7533.6	7372.0	6468.6
20°	6350.4	6327.8	6267.6	6212.5	6184.9	6231.2	6425.3	7147.4	7449.8	7577.9	6576.0
22.5°	6734.6	6716.9	6619.3	6501.2	6405.6	6404.6	6500.1	6965.2	7305.0	7772.0	6666.7
25°	7231.1	7202.6	7057.7	6868.6	6701.1	6637.1	6663.7	6956.3	7226.2	7982.8	6747.4
27.5°	7814.3	7762.2	7590.7	7317.9	7071.6	6942.5	6904.1	7116.9	7298.1	8243.9	6859.7
30°	8521.7	8461.6	8241.9	7886.2	7538.5	7326.7	7244.9	7401.6	7536.6	8562.1	7040.0
32.5°	9326.5	9239.9	8985.7	8593.6	8136.6	7813.4	7680.4	7777.9	7885.3	8945.3	7265.6
35°	10438.9	10335.4	9967.9	9427.1	8910.8	8466.6	8253.8	8324.7	8429.1	9516.7	7591.7
37.5°	11197.4	11151.1	10906.8	10398.5	9836.9	9325.6	8996.5	9038.0	9097.1	10230.9	8009.4
40°	11190.6	11209.3	11214.2	11219.1	10836.8	10347.2	9993.5	9950.2	9938.4	11015.1	8484.3
42.5°	10630.0	10706.8	10955.1	11458.5	11691.0	11466.4	11142.3	11017.2	10955.1	11939.3	8987.7
45°	9771.9	9813.3	10278.3	11261.5	12128.4	12574.7	12329.4	11935.3	11823.1	12788.5	9405.4
47.5°	9329.5	9374.8	9667.5	10739.3	12123.5	13470.2	13612.1	12861.4	12660.4	13527.4	9766.0
50°	8276.4	8371.0	8739.5	9831.0	11681.2	13882.1	14952.9	13964.8	13549.1	14246.5	10127.5
52.5°	6342.5	6488.4	6901.1	8337.5	10559.0	13678.1	16025.8	15302.6	14715.5	14991.3	10437.9
55°	4000.8	4109.1	4455.9	5888.3	8446.8	12617.1	16432.6	16749.9	16227.7	15696.7	10706.8
57.5°	2175.3	2223.5	2353.6	3251.0	5494.3	10271.3	15839.6	17573.5	17356.7	16295.7	10909.8
58°	1946.7	1979.2	2060.0	2817.6	4872.6	9630.1	15576.5	17576.4	17468.0	16383.4	10925.5
60°	1444.3	1427.5	1355.6	1607.8	2712.1	6652.9	13986.5	16873.0	17191.2	16490.8	10848.7
62.5°	1268.9	1228.5	1081.7	1065.0	1319.1	3064.9	10701.9	14453.4	15205.1	15877.9	10381.7
65°	1192.0	1148.7	959.5	898.5	951.7	1296.5	6304.1	10839.8	11782.7	14020.0	9187.7
67.5°	1135.0	1078.8	881.7	798.0	801.9	857.1	2527.0	6827.2	7888.3	10644.7	7146.4
70°	1079.7	1018.7	815.7	719.1	696.5	677.8	1004.8	3417.6	4380.1	6723.8	4556.4
72.5°	1020.6	960.6	757.6	657.1	612.7	550.8	656.1	1398.0	1952.6	3181.1	2066.9
75°	934.9	880.8	699.5	601.9	538.9	456.1	495.5	730.0	875.9	1266.9	996.0
77.5°	829.5	785.2	634.4	556.6	477.8	370.4	381.3	506.4	561.5	725.1	592.1
80°	596.1	611.8	564.5	500.4	425.5	300.4	292.6	369.4	399.0	466.0	385.2
82.5°	418.7	427.6	467.0	408.9	351.7	236.4	215.7	260.0	277.8	306.4	207.9
85°	288.7	278.8	320.2	284.7	254.2	157.6	147.8	176.4	187.2	190.2	107.4
87.5°	173.4	173.4	185.3	152.7	137.0	81.7	79.8	100.5	107.4	102.5	59.1
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°	5557.4	5557.4	5557.4	5557.4	5557.4	5557.4	5557.4	5557.4	5557.4	5557.4	5557.4
2.5°	5572.1	5502.1	5353.4	5234.2	5083.5	4926.8	4839.2	4745.6	4681.5	4635.2	4709.2
5°	5614.5	5471.7	5164.3	4872.6	4550.5	4215.6	3961.4	3725.0	3560.4	3458.0	3554.4
7.5°	5681.5	5461.7	4972.2	4473.7	3895.4	3337.8	2839.3	2527.0	2344.7	2255.1	2311.3
10°	5758.3	5446.0	4746.6	3932.8	3105.3	2402.8	2030.5	1904.3	1863.0	1846.2	1854.1
12.5°	5822.3	5412.5	4469.7	3278.7	2331.9	1897.5	1790.1	1787.1	1796.0	1797.9	1800.9
15°	5867.6	5363.2	4058.9	2596.9	1864.9	1729.0	1723.1	1740.8	1757.5	1764.5	1768.4
17.5°	5898.2	5261.8	3594.9	2053.1	1670.9	1647.2	1661.0	1683.7	1701.4	1706.3	1710.3
20°	5895.3	5113.0	3042.2	1712.2	1565.4	1565.4	1589.1	1606.9	1607.8	1601.8	1604.8
22.5°	5864.7	4909.1	2506.2	1530.9	1471.8	1488.6	1512.2	1495.5	1426.5	1381.2	1384.2
25°	5813.5	4665.8	2047.2	1415.7	1385.2	1414.7	1407.8	1281.7	1183.1	1138.9	1138.9
27.5°	5768.2	4378.1	1694.5	1315.2	1298.4	1335.0	1212.7	1098.4	1057.1	1036.4	1029.5
30°	5735.7	4067.8	1459.0	1218.6	1216.7	1190.1	1052.2	1020.6	1013.7	997.0	991.0
32.5°	5743.6	3753.5	1308.4	1133.9	1140.8	1018.7	975.3	982.2	976.3	958.6	950.7
35°	5808.5	3455.0	1209.7	1057.1	1036.4	920.1	930.0	942.9	940.8	916.3	908.3
37.5°	5924.8	3172.3	1144.8	993.1	904.4	870.9	886.7	906.3	901.4	884.6	878.8
40°	6047.0	2906.2	1091.6	942.9	826.5	837.4	851.2	862.0	867.0	871.9	868.0
42.5°	6166.1	2628.5	1026.5	891.6	794.0	805.9	811.8	822.7	849.3	868.0	867.0
45°	6237.1	2367.3	959.5	818.7	768.4	775.3	771.4	793.1	825.5	856.1	857.1
47.5°	6315.9	2164.5	906.3	751.7	743.8	748.7	736.9	758.6	788.2	825.5	829.5
50°	6411.4	2043.2	864.0	698.5	710.3	710.3	707.4	727.0	768.4	811.8	819.7
52.5°	6519.9	2019.6	828.5	660.1	676.8	675.9	678.8	708.3	753.6	796.1	802.9
55°	6651.8	2083.6	790.1	631.5	644.3	648.2	658.1	691.6	730.0	778.3	781.2
57.5°	6805.6	2213.7	759.5	608.9	614.8	627.6	643.3	673.8	715.2	768.4	771.4
58°	6831.2	2241.3	754.6	606.8	608.9	623.6	641.4	670.9	712.3	770.4	773.4
60°	6832.2	2332.8	743.8	598.0	586.2	610.8	630.5	660.1	707.4	777.3	784.2
62.5°	6589.8	2331.9	735.9	585.2	562.5	593.1	615.7	650.2	702.5	794.0	807.8
65°	5802.7	2119.1	698.5	565.5	543.8	577.4	602.9	643.3	716.2	867.0	875.9
67.5°	4538.6	1736.9	628.5	537.9	519.1	561.5	595.1	642.3	731.0	883.7	889.6
70°	3000.8	1299.5	551.7	506.4	493.6	542.8	598.9	675.9	714.2	848.2	832.5
72.5°	1557.5	912.3	489.6	467.0	464.0	526.1	656.1	671.9	697.6	798.0	778.3
75°	817.6	633.5	435.5	423.6	428.5	522.1	774.4	654.2	675.9	763.5	801.0
77.5°	500.4	511.3	389.1	384.2	394.0	510.4	773.4	631.5	644.3	702.5	743.8
80°	334.9	414.8	353.6	354.7	361.5	467.0	694.6	596.1	605.9	664.0	706.3
82.5°	211.9	245.3	321.2	337.9	329.1	385.2	590.1	542.8	556.6	759.5	802.9
85°	107.4	153.6	278.8	325.1	296.6	270.0	478.8	475.9	482.7	547.8	572.3
87.5°	49.3	84.7	217.7	283.8	223.6	168.5	347.8	352.7	380.2	389.1	389.1
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)