

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: P191467

Luminaire Tested: **GAN-AF-09-LED-U-T3-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191467  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-09-LED-U-T3-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 59728 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B4 - U0 - G5

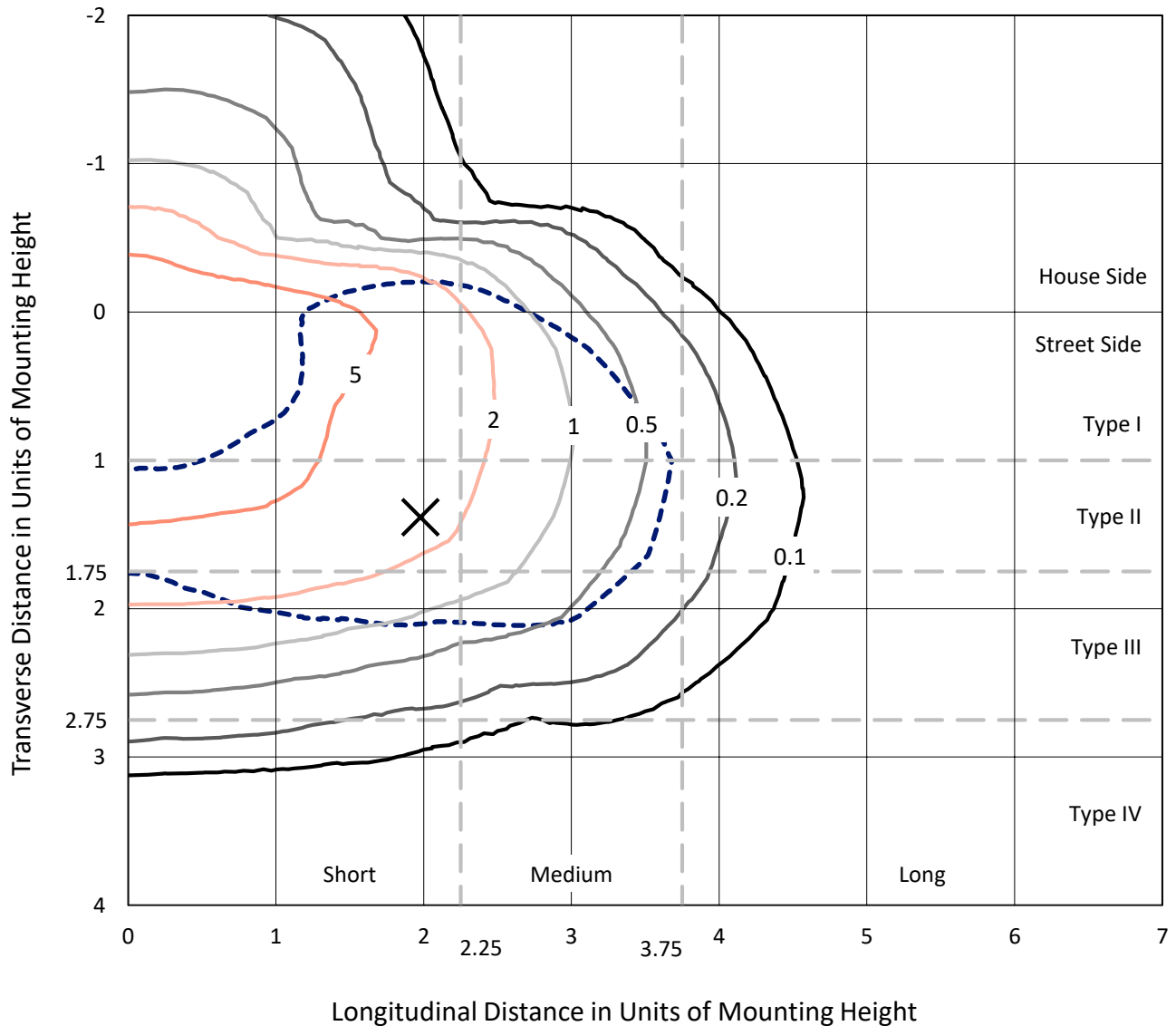
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

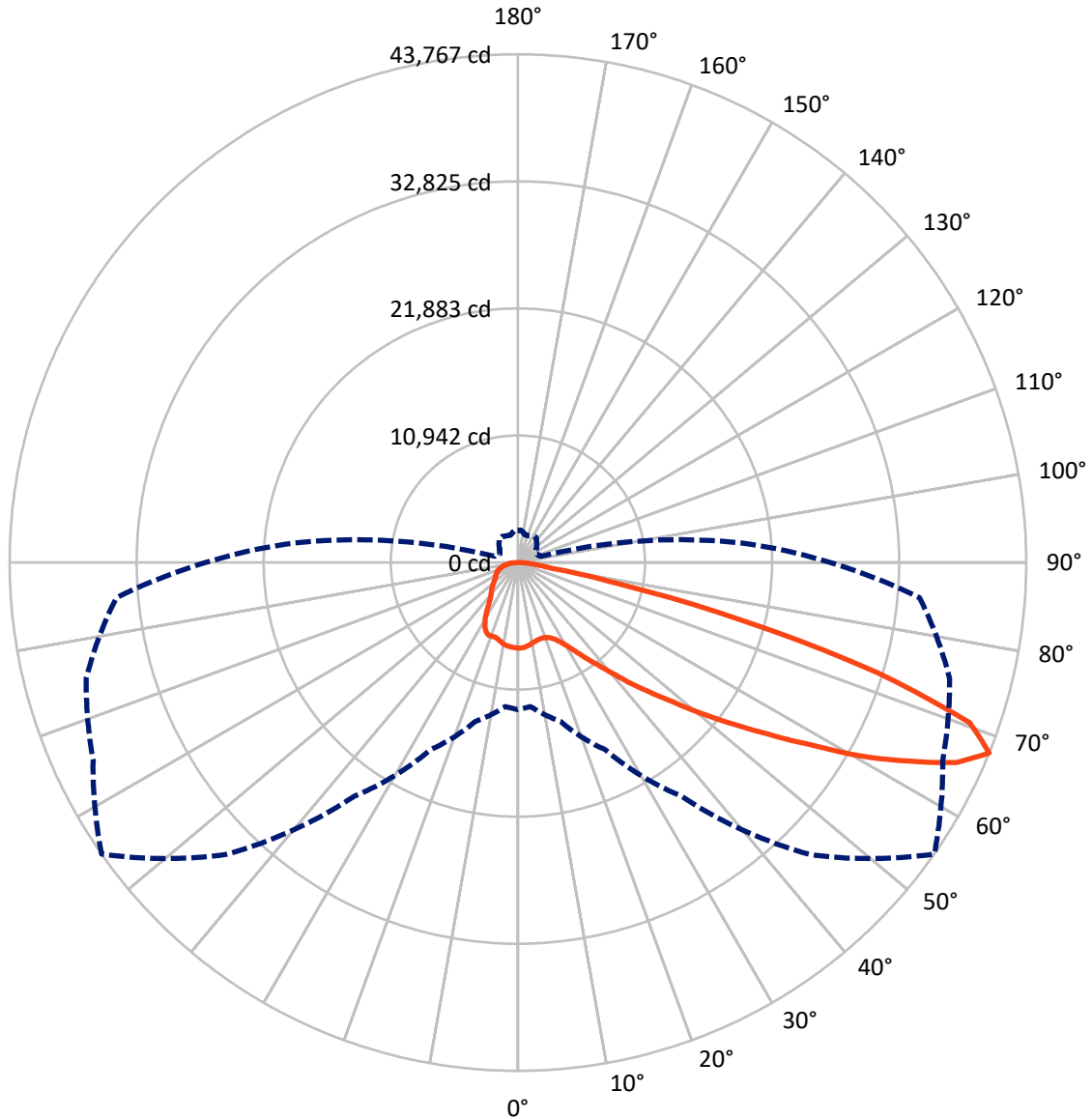
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12902.5	0.0	12902.5
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	46825.5	0.0	46825.5
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	59728.0	0.0	59728.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	687.5	1.2
10°-20°	1947.0	3.3
20°-30°	3261.4	5.5
30°-40°	5363.2	9.0
40°-50°	9027.9	15.1
50°-60°	14209.3	23.8
60°-70°	16957.2	28.4
70°-80°	7281.8	12.2
80°-90°	992.8	1.7
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°	59728.0	100.0
0°-180°	59728.0	100.0

**Coefficient of Utilization**



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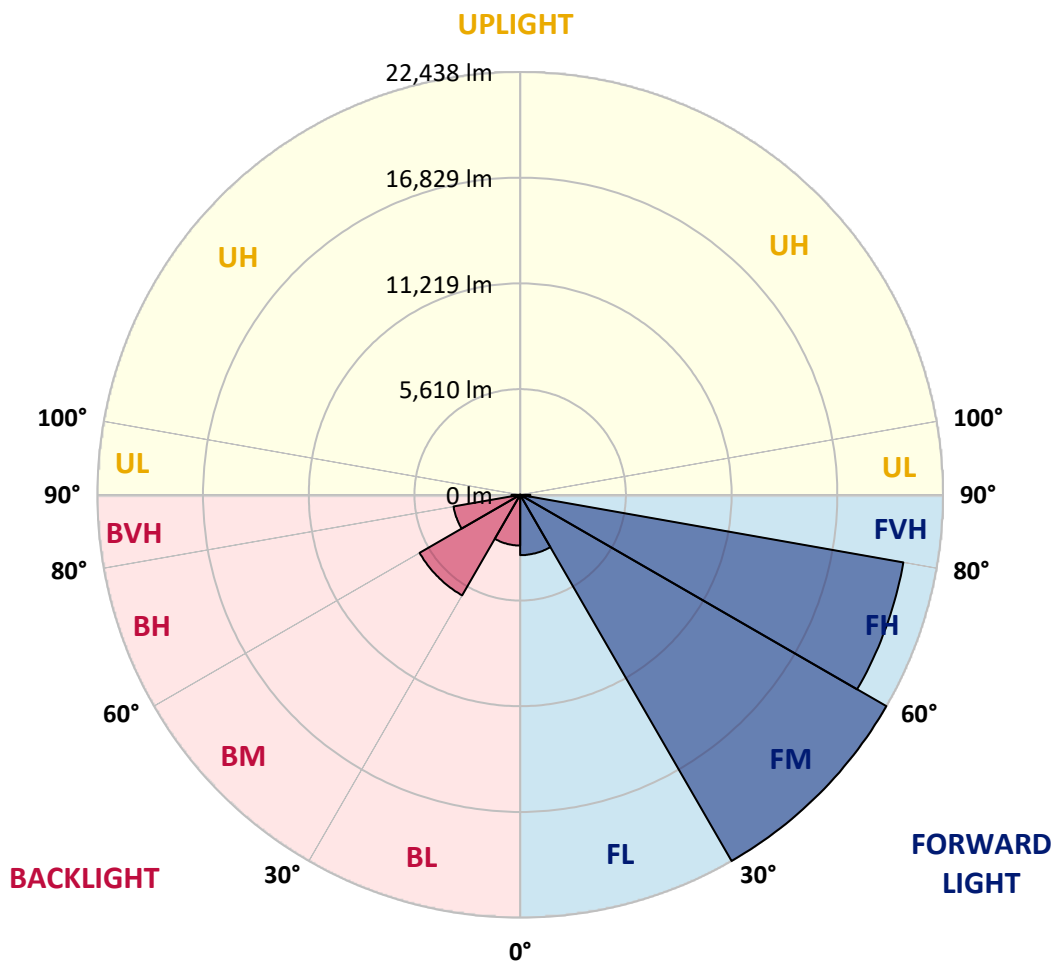
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3201.6	5.4			
FM	(30°-60°)	22438.3	37.6			
FH	(60°-80°)	20648.3	34.6			G5
FVH	(80°-90°)	537.4	0.9			G4/750
BL	(0°-30°)	2694.3	4.5	B4/5000		
BM	(30°-60°)	6162.1	10.3	B4/8500		
BH	(60°-80°)	3590.7	6.0	B4/5000		G4/5000
BVH	(80°-90°)	455.4	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°	65°	75°	85°	90°
0°	7365.1	7365.1	7365.1	7365.1	7365.1	7365.1	7365.1	7365.1	7365.1	7365.1	7365.1
2.5°	7301.6	7304.6	7310.3	7333.4	7353.6	7347.9	7350.7	7339.2	7336.3	7319.0	7336.3
5°	7209.3	7217.9	7220.9	7258.3	7281.5	7287.2	7278.6	7264.2	7246.9	7229.5	7238.2
7.5°	6998.7	7021.8	7024.7	7076.7	7114.1	7163.2	7166.1	7168.9	7160.2	7148.8	7166.1
10°	6866.0	6871.8	6868.9	6906.5	6935.3	6990.1	7021.8	7076.7	7099.7	7105.5	7117.0
12.5°	6857.4	6851.6	6842.9	6842.9	6834.3	6857.4	6915.0	6993.0	7047.8	7065.1	7079.5
15°	6949.7	6946.9	6918.0	6874.7	6819.9	6802.5	6851.6	6938.2	7010.3	7047.8	7062.2
17.5°	7157.4	7140.1	7094.0	6995.9	6877.6	6831.4	6837.2	6909.3	6993.0	7042.0	7056.4
20°	7538.2	7538.2	7440.1	7255.5	7044.9	6935.3	6883.3	6926.6	7007.4	7073.7	7094.0
22.5°	8196.0	8201.7	8037.3	7734.4	7379.6	7145.8	7016.0	7007.4	7102.6	7177.6	7200.7
25°	9127.8	9104.7	8873.9	8441.2	7901.7	7515.1	7290.2	7238.2	7319.0	7402.6	7431.4
27.5°	10212.5	10128.8	9854.8	9332.6	8634.5	8069.0	7722.9	7639.2	7717.0	7812.3	7841.1
30°	11285.7	11199.2	10873.1	10301.9	9525.9	8810.5	8314.2	8178.7	8288.3	8423.9	8441.2
32.5°	12358.9	12358.9	11995.3	11329.0	10483.7	9696.1	9101.8	8940.3	9122.1	9286.4	9324.0
35°	13642.7	13648.4	13296.4	12494.4	11585.7	10752.0	10097.1	9978.8	10252.9	10368.3	10457.7
37.5°	15220.7	15252.4	14799.4	13830.2	12834.9	11957.9	11178.9	11017.4	11291.4	11605.9	11894.4
40°	16925.6	16966.0	16467.0	15272.6	14277.3	13359.9	12517.5	12226.2	12681.9	13282.0	13654.1
42.5°	18552.7	18760.4	18278.7	17049.7	15979.4	15030.3	14176.4	13752.2	14323.5	15229.3	15552.4
45°	20903.9	21054.0	20214.4	19100.8	18094.1	17032.3	15901.5	15454.3	16253.5	17395.9	17462.3
47.5°	22470.4	22357.9	21930.9	21238.5	20601.0	19608.6	17906.5	17416.0	18477.7	19822.0	19449.9
50°	23304.1	23338.7	23281.0	23321.4	23344.6	22721.4	20364.4	19692.2	20958.7	22582.9	21726.1
52.5°	24083.0	23852.2	24042.6	24988.9	26131.3	25900.5	23038.7	22337.7	23618.6	25646.7	24132.1
55°	24065.7	23713.7	24334.1	26004.4	28482.5	28747.9	26041.9	25234.2	26431.3	28932.5	26682.3
57.5°	23214.7	23232.0	24187.0	26373.6	30121.1	31425.0	29526.9	28315.2	29414.3	32261.7	29010.5
60°	22043.5	22202.1	23578.2	26313.1	31433.7	33620.5	33802.3	31635.7	32336.7	35287.9	30937.5
62.5°	20153.9	20321.1	22219.4	25684.1	31234.7	35735.2	37668.0	35403.4	35391.8	37122.8	31503.0
65°	17173.7	17124.7	19118.1	23333.0	29564.3	37298.7	41507.8	38660.4	37694.0	37151.6	30366.3
67.5°	12664.6	12445.4	14156.1	17770.9	24573.5	35547.6	43766.6	40356.7	38478.6	34708.1	26893.0
70°	6571.7	6352.5	7737.3	10376.9	16161.2	27744.0	41265.4	39479.7	36744.8	29094.2	21068.4
72.5°	2809.8	2772.4	3334.9	4552.3	7818.0	16002.4	32357.0	34171.5	31529.0	21677.0	14485.0
75°	1889.6	1878.0	2088.7	2481.0	3516.7	6493.9	20249.0	24256.1	23067.5	13440.7	8146.9
77.5°	1482.9	1468.4	1592.4	1782.9	2279.0	2561.8	8986.4	13022.4	12053.0	5850.6	3565.7
80°	1159.7	1148.2	1226.1	1329.9	1638.7	1615.5	2957.0	5181.2	4010.0	2241.6	1733.8
82.5°	914.5	914.5	977.9	980.9	1162.6	1102.0	1543.4	2281.9	2002.1	1306.8	1061.6
85°	836.6	836.6	903.0	732.7	758.7	695.3	957.8	1353.1	1269.4	536.6	461.6
87.5°	421.1	409.7	758.7	649.1	412.6	369.3	467.4	654.9	703.9	297.2	230.8
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7365.1	7365.1	7365.1	7365.1	7365.1	7365.1	7365.1	7365.1	7365.1	7365.1
2.5°	7330.5	7327.6	7333.4	7336.3	7359.3	7391.1	7405.6	7425.7	7437.3	7431.4
5°	7243.9	7249.8	7272.8	7290.2	7330.5	7382.4	7411.3	7434.4	7454.5	7445.9
7.5°	7171.8	7186.2	7220.9	7235.3	7258.3	7272.8	7269.9	7278.6	7295.9	7275.7
10°	7131.4	7148.8	7174.7	7154.5	7099.7	7021.8	6949.7	6912.2	6923.7	6909.3
12.5°	7091.1	7114.1	7094.0	6998.7	6845.8	6744.8	6690.1	6695.8	6721.8	6727.5
15°	7068.0	7076.7	6990.1	6811.2	6655.4	6641.0	6669.8	6664.1	6667.0	6667.0
17.5°	7068.0	7044.9	6883.3	6704.5	6638.1	6612.1	6522.7	6410.2	6361.2	6343.8
20°	7105.5	7044.9	6848.8	6730.4	6586.2	6364.1	6127.5	5919.8	5827.4	5801.5
22.5°	7217.9	7114.1	6946.9	6742.0	6332.4	5960.2	5585.1	5337.0	5169.7	5140.8
25°	7445.9	7330.5	7140.1	6589.1	5928.4	5397.6	4970.6	4693.7	4526.4	4503.3
27.5°	7844.0	7769.0	7243.9	6251.6	5391.9	4823.5	4428.4	4214.9	4090.8	4082.1
30°	8444.0	8406.6	7192.1	5752.5	4731.2	4266.7	4076.4	3952.3	3860.0	3857.1
32.5°	9401.8	9098.9	7021.8	5143.8	4128.3	3871.6	3793.6	3718.6	3646.5	3646.5
35°	10633.7	9658.6	6698.7	4491.8	3761.9	3652.2	3554.1	3435.9	3340.7	3334.9
37.5°	12081.9	10004.8	6118.9	3966.7	3588.8	3505.1	3360.9	3185.0	3017.6	2988.8
40°	13544.6	10108.7	5302.5	3643.6	3479.2	3358.0	3182.0	2974.3	2812.8	2804.1
42.5°	14886.0	9909.6	4436.9	3421.5	3369.6	3208.0	3023.3	2838.7	2711.8	2708.9
45°	16011.1	9393.2	3709.9	3210.8	3254.1	3072.4	2907.9	2758.0	2659.9	2639.6
47.5°	17069.9	8663.4	3199.4	2988.8	3138.7	2997.5	2858.9	2717.6	2622.3	2607.9
50°	18298.9	7875.7	2841.7	2772.4	3037.8	2971.5	2899.3	2752.1	2593.5	2576.2
52.5°	19787.4	7194.9	2561.8	2581.9	2959.9	3006.0	3003.2	2850.2	2573.3	2550.2
55°	21449.1	6439.1	2351.2	2426.2	2928.2	3069.6	3029.2	2942.6	2590.6	2556.0
57.5°	23084.9	5556.3	2204.0	2307.9	2882.0	3063.7	2905.1	2781.0	2631.0	2581.9
60°	24310.9	4370.6	2091.5	2204.0	2781.0	2968.5	2769.5	2605.0	2622.3	2584.9
62.5°	24391.8	3378.2	1956.0	2114.6	2628.2	2873.4	2680.0	2527.2	2659.9	2625.2
65°	22958.0	2553.1	1826.2	2007.8	2463.7	2812.8	2593.5	2483.9	2737.7	2700.3
67.5°	19328.8	2054.1	1716.5	1898.3	2299.3	2685.9	2515.6	2443.5	2807.0	2740.7
70°	13954.2	1751.1	1609.8	1765.5	2152.1	2541.6	2446.4	2371.4	2619.5	2515.6
72.5°	8591.2	1517.4	1488.6	1589.6	2039.7	2391.6	2342.6	2235.8	2359.8	2276.2
75°	4289.8	1315.5	1353.1	1416.5	1880.9	2221.3	2169.5	2062.7	2080.0	2062.7
77.5°	2054.1	1125.1	1194.3	1243.4	1676.1	2028.1	1973.3	1863.6	1843.5	1846.3
80°	1301.1	940.5	1006.8	1041.5	1497.3	1803.1	1748.2	1638.7	1869.4	1733.8
82.5°	813.6	764.5	781.8	845.3	1304.0	1569.4	1497.3	1399.2	1684.8	1332.8
85°	450.0	533.7	556.8	611.6	1003.9	1312.7	1240.5	1116.4	1001.1	983.8
87.5°	268.3	317.3	326.0	366.4	675.0	949.1	839.5	796.3	660.6	657.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)