

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: P317714

Luminaire Tested: **GAN-SA0A-730-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317714  
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-SA0A-730-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42950 lumens  
Efficiency: N/A  
Efficacy: 133.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

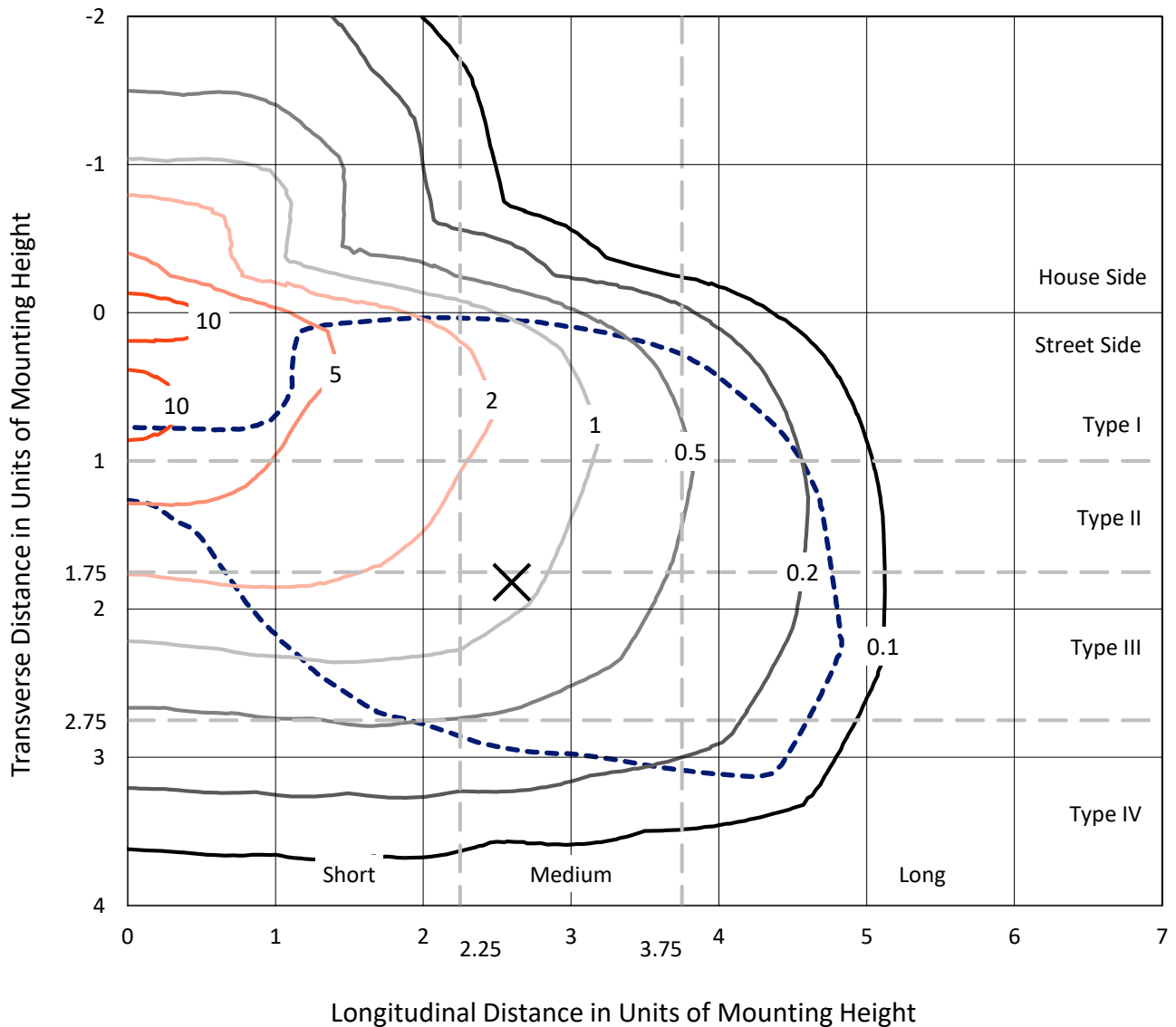
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

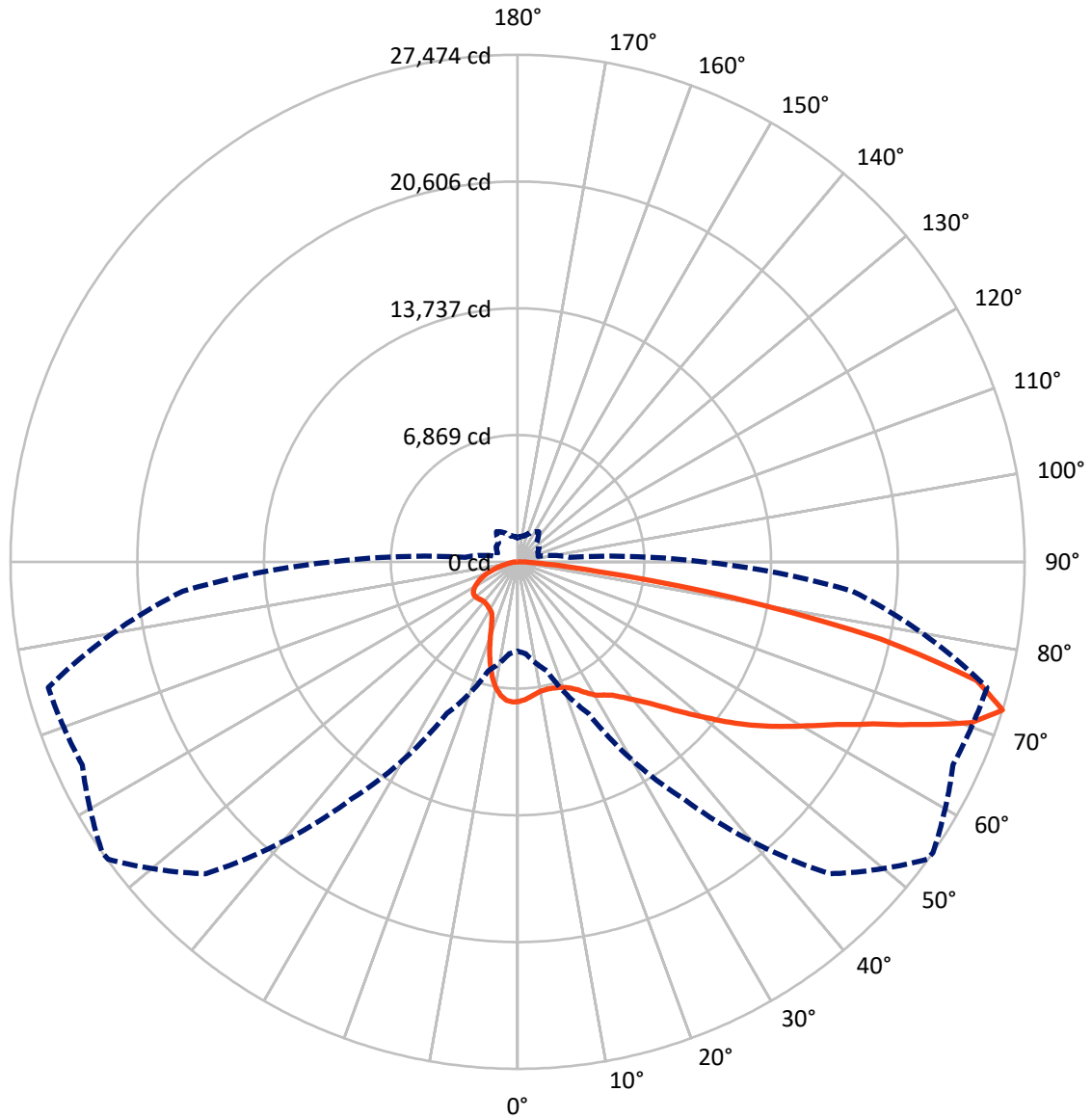
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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	7983.0	0.0	7983.0
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	34967.0	0.0	34967.0
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	42950.0	0.0	42950.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	685.5	1.6
10°-20°	1825.0	4.2
20°-30°	3009.0	7.0
30°-40°	4451.1	10.4
40°-50°	6212.8	14.5
50°-60°	8089.2	18.8
60°-70°	9941.4	23.1
70°-80°	7792.9	18.1
80°-90°	943.0	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°	42950.0	100.0
0°-180°	42950.0	100.0

**Coefficient of Utilization**

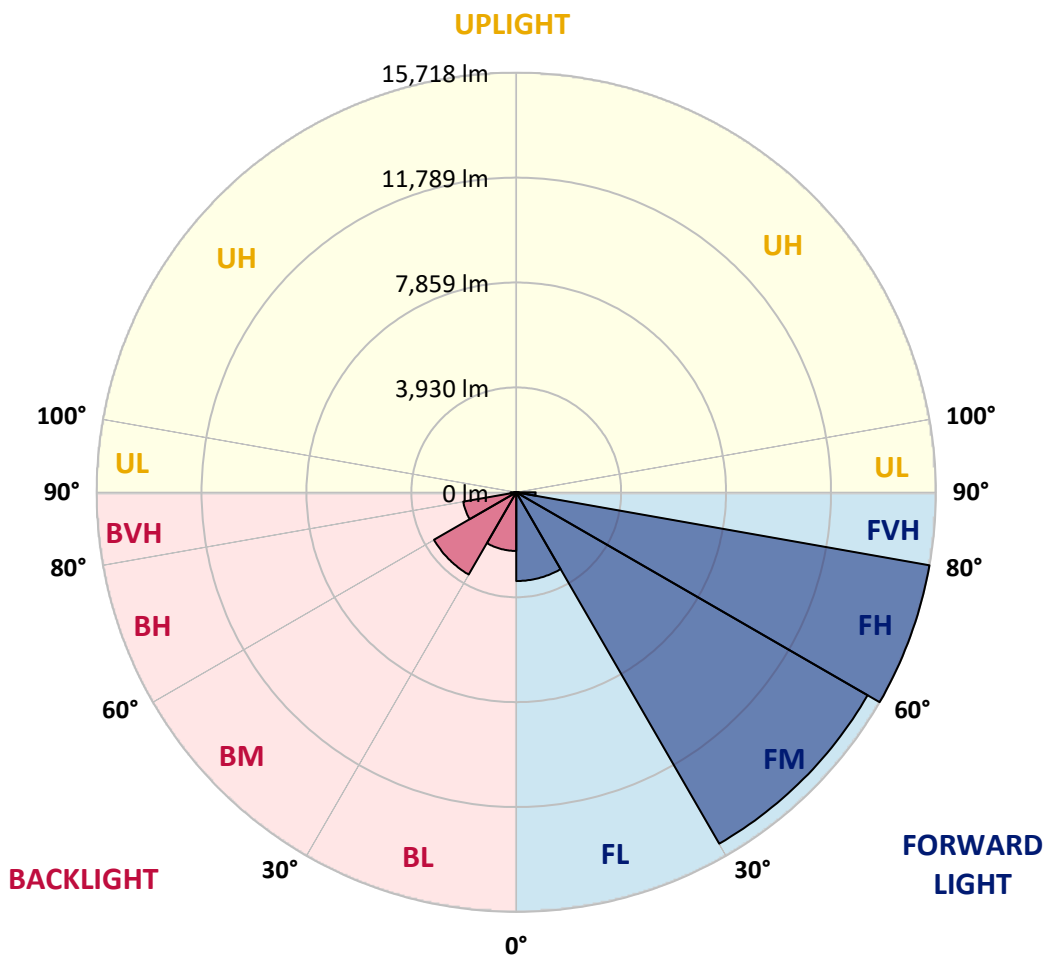


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3323.1	7.7			
FM (30°-60°)	15196.6	35.4			
FH (60°-80°)	15718.2	36.6			G5
FVH (80°-90°)	729.1	1.7			G4/750
BL (0°-30°)	2196.5	5.1	B3/2500		
BM (30°-60°)	3556.5	8.3	B3/5000		
BH (60°-80°)	2016.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	213.9	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-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7575.5	7575.5	7575.5	7575.5	7575.5	7575.5	7575.5	7575.5	7575.5	7575.5	7575.5
2.5°	7328.8	7311.4	7333.2	7363.7	7397.0	7442.0	7468.1	7479.7	7524.7	7542.1	7579.8
5°	6989.4	6980.7	7016.9	7069.2	7143.2	7247.6	7331.7	7347.7	7466.7	7550.8	7627.7
7.5°	6742.8	6742.8	6784.8	6847.2	6929.9	7070.6	7189.6	7211.3	7413.0	7594.3	7736.5
10°	6546.9	6554.2	6603.5	6677.5	6774.7	6924.1	7082.2	7106.9	7398.5	7695.9	7922.2
12.5°	6416.4	6433.8	6478.7	6545.5	6665.9	6847.2	7047.4	7080.8	7428.9	7840.9	8145.6
15°	6499.1	6528.1	6532.4	6560.0	6626.7	6824.0	7067.7	7102.5	7494.2	7988.9	8399.4
17.5°	6861.7	6871.9	6826.9	6768.9	6737.0	6863.2	7128.6	7164.9	7572.6	8135.4	8643.2
20°	7413.0	7407.2	7310.0	7153.3	6990.8	7011.1	7228.7	7266.5	7678.5	8264.5	8886.9
22.5°	8109.3	8089.0	7939.6	7650.9	7373.8	7257.8	7404.3	7436.2	7838.0	8448.8	9148.0
25°	8953.6	8908.6	8711.3	8324.0	7916.4	7617.5	7668.3	7698.8	8070.1	8654.8	9387.4
27.5°	9844.3	9799.3	9548.4	9079.8	8537.3	8071.6	8032.4	8058.5	8334.2	8807.1	9564.3
30°	10775.7	10727.8	10498.6	9973.4	9195.9	8541.6	8371.9	8382.0	8519.8	8889.8	9709.4
32.5°	11711.3	11666.4	11409.6	10800.3	9911.1	9046.4	8617.0	8604.0	8631.6	8975.4	9873.3
35°	12660.1	12677.5	12377.2	11702.6	10703.1	9607.9	8907.2	8879.6	8818.7	9150.9	10105.4
37.5°	13675.6	13664.0	13275.2	12570.2	11531.5	10217.1	9323.5	9319.2	9108.8	9483.1	10469.6
40°	14354.5	14361.7	14125.3	13458.0	12368.5	10891.7	9857.4	9847.2	9571.6	9980.7	10946.8
42.5°	14620.0	14667.8	14728.8	14305.2	13244.7	11673.6	10494.2	10479.7	10217.1	10694.4	11508.3
45°	14638.8	14734.6	15111.7	15058.1	14132.5	12568.7	11308.1	11267.4	11078.9	11643.2	12178.5
47.5°	14476.3	14575.0	15201.7	15506.3	14926.1	13513.1	12259.7	12227.8	12065.3	12829.8	12903.8
50°	14120.9	14215.2	15016.0	15725.4	15578.9	14421.2	13356.4	13272.3	13185.2	14200.7	13733.6
52.5°	13455.1	13636.4	14767.9	15777.6	15969.1	15227.8	14509.7	14454.6	14502.5	15647.0	14564.8
55°	11878.2	12081.3	14128.2	15734.1	16257.8	15905.3	15663.0	15660.1	15908.2	17164.5	15457.0
57.5°	10994.7	11138.3	12825.5	15660.1	16600.1	16578.4	16804.7	16832.3	17315.3	18816.8	16391.2
60°	10495.7	10646.5	12165.4	15385.9	17131.1	17448.8	17969.6	18024.7	18745.7	20646.1	17515.5
62.5°	10041.6	10207.0	11756.3	14827.4	17756.3	18693.5	19365.1	19414.5	20260.2	22526.2	18602.1
65°	9265.5	9452.6	11157.2	14460.4	18325.0	20316.8	21139.3	21172.7	21999.6	24496.2	19433.3
67.5°	8168.8	8340.0	10027.1	13649.5	18745.7	22288.3	23498.1	23517.0	23724.4	25887.4	19858.4
70°	6887.8	6953.1	8416.9	11975.4	18248.1	24132.1	26083.2	26087.6	25297.0	26778.1	19788.7
72.5°	4839.5	4993.2	6110.3	9065.3	15681.9	23907.2	27425.1	27474.4	26028.1	26328.4	18207.5
75°	2968.1	3130.6	3832.7	5493.7	9948.8	18802.3	25339.0	25681.4	24657.2	23474.9	14873.8
77.5°	1984.5	2045.5	2501.0	3203.1	4507.3	10817.7	19481.2	20125.3	20483.6	17119.5	9512.1
80°	1106.9	1222.9	1658.1	1990.3	2004.8	4298.4	11680.9	11831.8	11396.5	6816.7	2934.7
82.5°	586.1	649.9	1106.9	1169.2	1093.8	1439.1	4353.5	4357.8	3641.2	1827.9	871.9
85°	454.1	507.7	758.7	713.7	558.5	638.3	1436.2	1514.5	1238.9	748.6	284.3
87.5°	226.3	281.4	515.0	452.6	219.1	182.8	513.5	548.4	488.9	293.0	103.0
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°	7575.5	7575.5	7575.5	7575.5	7575.5	7575.5	7575.5	7575.5	7575.5	7575.5	7575.5
2.5°	7594.3	7607.4	7623.3	7605.9	7600.1	7576.9	7537.7	7529.0	7508.7	7510.2	7521.8
5°	7661.0	7682.8	7674.1	7607.4	7527.6	7415.9	7299.8	7201.2	7135.9	7131.5	7127.2
7.5°	7788.7	7803.2	7735.0	7545.0	7321.6	7063.4	6819.7	6606.4	6477.3	6445.4	6438.1
10°	7988.9	7986.0	7798.9	7415.9	6970.5	6509.2	6117.5	5821.6	5649.0	5598.2	5585.1
12.5°	8212.3	8178.9	7820.6	7180.9	6474.4	5834.6	5338.5	5009.2	4829.3	4771.3	4756.8
15°	8443.0	8360.3	7766.9	6829.8	5865.1	5107.8	4587.1	4282.4	4185.2	4153.3	4147.5
17.5°	8657.7	8498.1	7613.2	6354.0	5170.2	4384.0	3977.8	3855.9	3879.1	3921.2	3922.6
20°	8868.0	8590.9	7366.6	5753.4	4437.6	3787.7	3649.9	3739.9	3850.1	3935.7	3947.3
22.5°	9075.5	8656.2	7048.9	5060.0	3781.9	3452.6	3549.8	3713.7	3840.0	3932.8	3948.8
25°	9249.5	8672.2	6610.8	4320.1	3326.4	3326.4	3501.9	3657.2	3781.9	3873.3	3889.3
27.5°	9313.4	8564.8	5992.8	3635.4	3097.2	3268.4	3435.2	3564.3	3670.2	3767.4	3784.8
30°	9338.0	8366.1	5279.0	3085.6	3002.9	3206.0	3345.3	3455.5	3555.6	3647.0	3663.0
32.5°	9342.4	8126.7	4521.8	2773.7	2937.6	3140.7	3233.6	3330.8	3438.1	3474.4	3480.2
35°	9369.9	7843.8	3723.9	2614.1	2876.7	3079.8	3153.8	3223.4	3049.3	3062.4	3074.0
37.5°	9449.7	7563.9	3056.6	2524.2	2837.5	3047.9	3136.4	2884.0	2747.6	2715.7	2711.3
40°	9599.2	7265.0	2561.9	2451.7	2823.0	3063.8	3024.7	2692.5	2457.5	2281.9	2255.8
42.5°	9806.6	6943.0	2245.7	2403.8	2833.2	3140.7	2869.4	2508.2	2118.0	2004.8	1990.3
45°	10040.2	6605.0	2074.5	2370.4	2868.0	3200.2	2837.5	2263.1	1959.9	1874.3	1867.0
47.5°	10266.5	6191.5	1986.0	2355.9	2915.9	3152.3	2702.6	2187.6	1884.4	1839.5	1843.8
50°	10526.1	5818.7	1932.3	2339.9	2957.9	3121.9	2550.3	2148.5	1855.4	1910.5	1968.6
52.5°	10745.2	5432.8	1884.4	2308.0	2973.9	3068.2	2511.1	2155.7	1855.4	1961.3	2016.4
55°	11004.9	5141.2	1829.3	2241.3	2943.4	2915.9	2483.6	2199.2	1877.2	1810.4	1816.3
57.5°	11340.0	5045.5	1768.4	2136.9	2841.9	2693.9	2470.5	2241.3	1864.1	1822.1	1836.6
60°	11804.2	5147.0	1743.7	2000.5	2683.8	2519.8	2472.0	2219.5	1772.7	1700.2	1701.6
62.5°	12246.6	5260.2	1742.3	1914.9	2489.4	2364.6	2438.6	2148.5	1726.3	1684.2	1700.2
65°	12391.7	5145.6	1672.6	1819.2	2270.3	2178.9	2377.7	2073.0	1691.5	1627.7	1624.8
67.5°	12197.3	4790.1	1531.9	1663.9	2019.3	1962.8	2297.9	1983.1	1636.4	1584.1	1575.4
70°	11620.0	3996.6	1357.8	1459.4	1733.6	1719.1	2171.7	1878.6	1562.4	1517.4	1479.7
72.5°	10066.3	2847.7	1144.6	1214.2	1411.5	1457.9	1997.6	1742.3	1457.9	1360.7	1302.7
75°	8267.4	2107.8	940.0	954.5	1072.1	1198.3	1758.2	1582.7	1334.6	1169.2	1124.3
77.5°	5062.9	1289.7	748.6	754.4	768.9	956.0	1447.8	1404.3	1178.0	974.9	942.9
80°	1639.3	703.6	541.1	568.7	525.1	700.7	1119.9	1195.4	1011.1	815.3	780.5
82.5°	623.8	410.5	365.6	384.4	364.1	470.0	816.7	957.4	828.3	670.2	545.5
85°	301.7	232.1	216.2	242.3	224.9	240.8	522.2	705.0	628.1	436.7	406.2
87.5°	107.4	103.0	82.7	111.7	95.7	85.6	159.6	355.4	414.9	300.3	268.4
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)