

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: P318043

Luminaire Tested: **GAN-SA9B-730-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318043  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9B-730-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45656 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

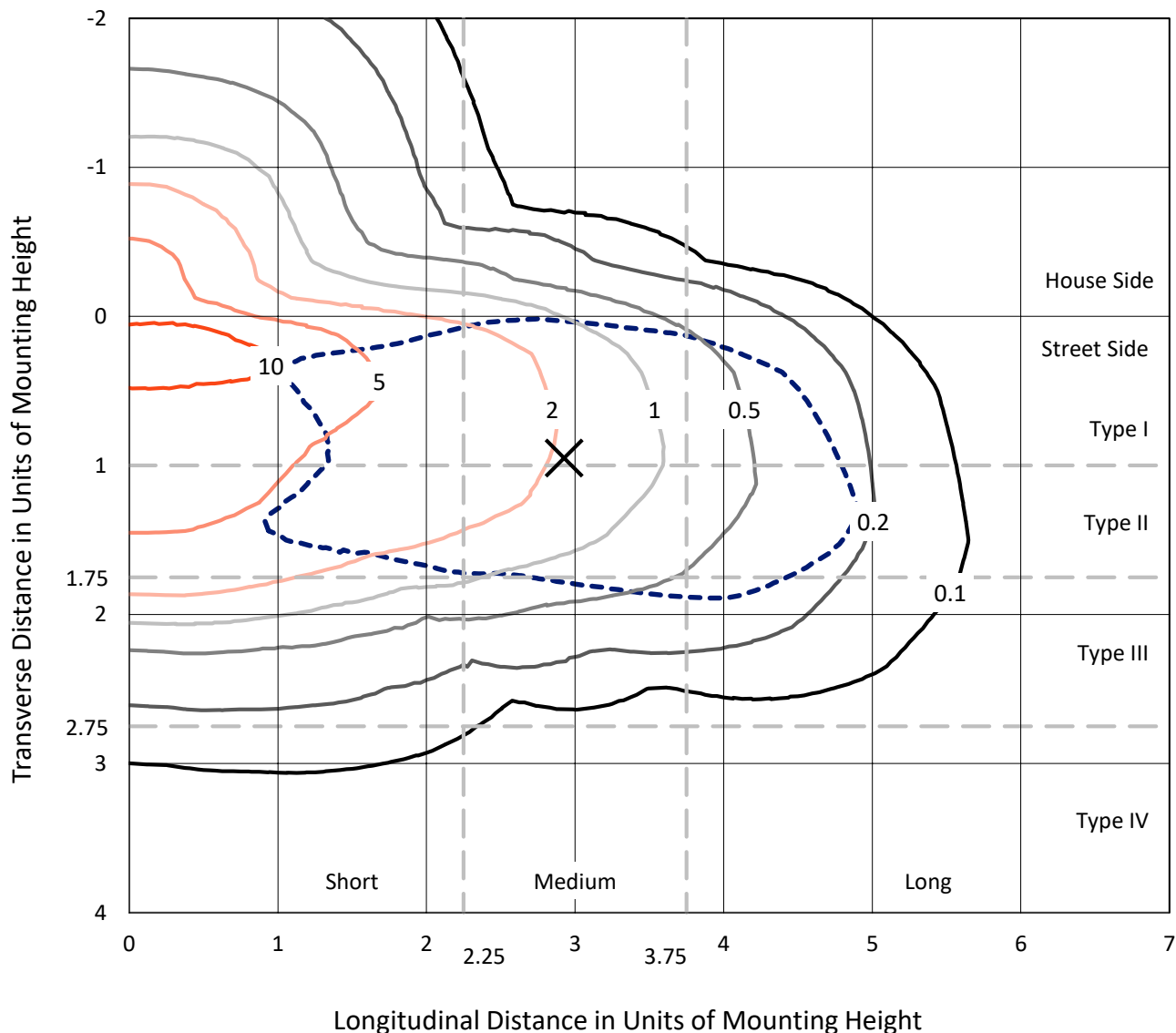
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

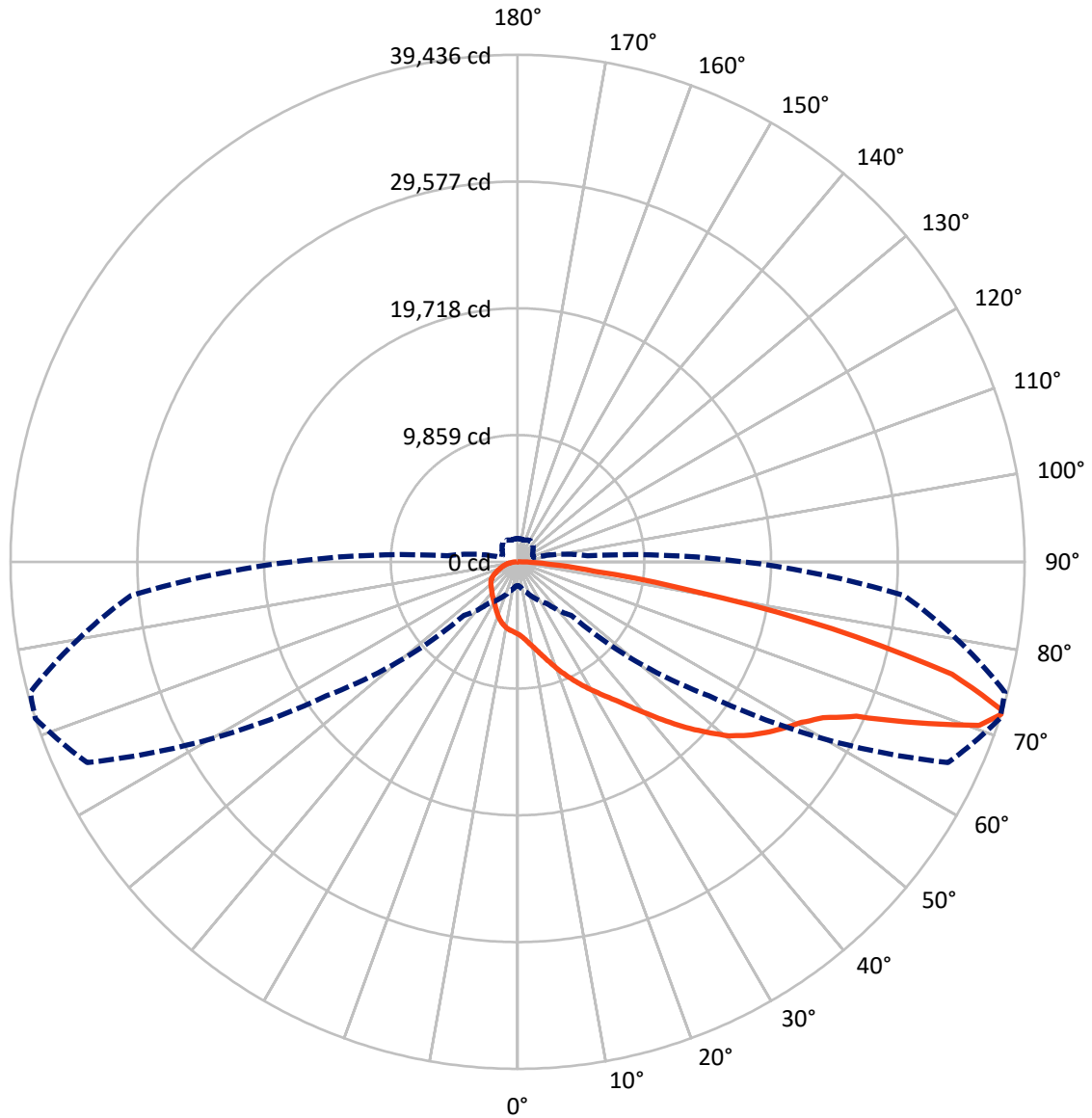
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8469.5	0.0	8469.5
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	37186.5	0.0	37186.5
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	45656.0	0.0	45656.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	562.8	1.2
10°-20°	1818.8	4.0
20°-30°	3187.1	7.0
30°-40°	4725.5	10.4
40°-50°	6911.4	15.1
50°-60°	9510.0	20.8
60°-70°	10587.4	23.2
70°-80°	7174.0	15.7
80°-90°	1179.1	2.6
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°	45656.0	100.0
0°-180°	45656.0	100.0

**Coefficient of Utilization**

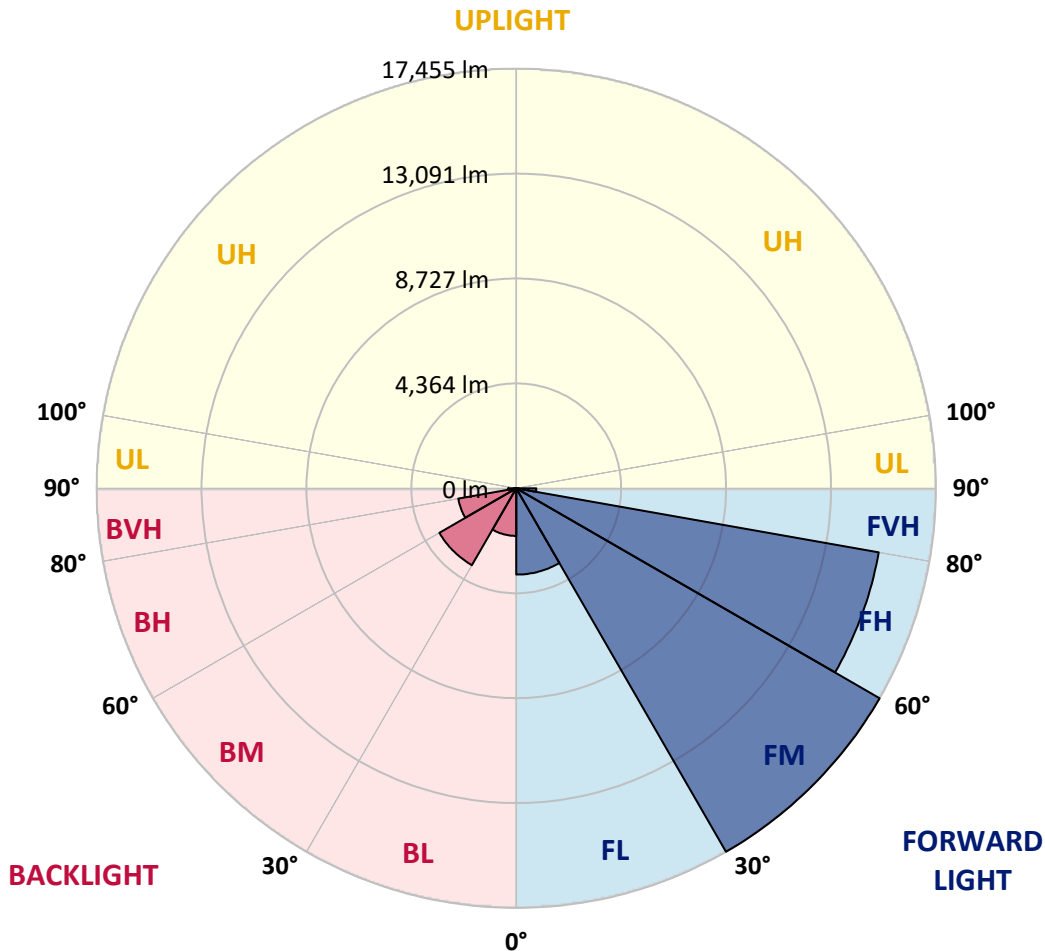


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3588.8	7.9			
FM (30°-60°)	17454.9	38.2			
FH (60°-80°)	15311.1	33.5			G5
FVH (80°-90°)	831.7	1.8			G5
BL (0°-30°)	1979.9	4.3	B3/2500		
BM (30°-60°)	3691.9	8.1	B3/5000		
BH (60°-80°)	2450.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	347.4	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5616.9	5616.9	5616.9	5616.9	5616.9	5616.9	5616.9	5616.9	5616.9	5616.9	5616.9
2.5°	6204.8	6195.4	6162.4	6162.4	6099.5	6046.0	5945.4	5877.8	5797.7	5769.4	5675.0
5°	6805.3	6808.5	6767.6	6739.3	6646.6	6533.4	6362.0	6206.4	6050.8	5987.9	5794.5
7.5°	7310.0	7303.7	7292.7	7269.1	7182.6	7066.3	6835.2	6604.1	6374.6	6280.3	5947.0
10°	7633.8	7647.9	7657.4	7668.4	7632.2	7548.9	7330.4	7049.0	6748.7	6619.8	6129.4
12.5°	7797.3	7822.4	7866.5	7941.9	8001.7	7992.2	7833.4	7534.8	7177.9	7016.0	6357.3
15°	7893.2	7926.2	7995.4	8130.6	8298.8	8394.7	8352.2	8081.8	7684.1	7484.5	6635.6
17.5°	7952.9	7979.6	8086.5	8267.3	8517.3	8772.0	8883.6	8657.2	8256.3	8028.4	6954.7
20°	7993.8	8014.2	8147.9	8360.1	8683.9	9089.5	9400.8	9344.2	8886.7	8591.2	7288.0
22.5°	8085.0	8102.3	8229.6	8443.4	8801.8	9325.3	9899.1	9984.0	9551.7	9216.8	7644.8
25°	8339.6	8339.6	8446.5	8595.9	8932.3	9529.7	10320.4	10696.1	10230.8	9840.9	7974.9
27.5°	8825.4	8820.7	8860.0	8911.9	9166.5	9737.2	10696.1	11324.9	10935.1	10509.1	8295.6
30°	9400.8	9432.2	9436.9	9411.8	9531.2	9996.6	11043.5	11988.3	11644.1	11185.0	8624.2
32.5°	10141.2	10161.6	10138.1	10054.7	10037.4	10364.4	11384.7	12683.2	12411.2	11890.9	8924.4
35°	11081.3	11042.0	10968.1	10798.3	10636.4	10856.5	11774.5	13378.0	13272.7	12744.5	9337.9
37.5°	12088.9	12090.5	11999.3	11614.2	11391.0	11485.3	12312.2	14165.6	14314.9	13760.0	9867.7
40°	12897.0	12939.4	12996.0	12489.8	12200.6	12331.0	12996.0	15079.0	15547.4	14964.2	10557.8
42.5°	13461.3	13510.1	13670.4	13352.9	13052.6	13294.7	13800.9	16053.6	16930.8	16353.9	11365.8
45°	14058.7	14085.4	14198.6	14061.8	13870.1	14415.6	14708.0	17062.9	18394.4	17834.7	12269.7
47.5°	14687.5	14715.8	14832.1	14741.0	14640.4	15462.5	15654.3	18013.9	19796.6	19461.8	13235.0
50°	15464.1	15483.0	15593.0	15427.9	15459.4	16251.7	16500.1	18886.4	21266.5	20923.8	14203.3
52.5°	16523.7	16528.4	16680.9	16531.5	16383.7	16830.2	17227.9	19708.6	22418.8	22256.9	15171.7
55°	17353.7	17404.0	17903.9	17872.5	17787.6	17355.3	17836.3	20491.5	23446.9	23523.9	16199.8
57.5°	16823.9	17020.4	18032.8	18746.5	19441.4	18661.6	18658.5	21373.4	24402.7	24767.4	17330.1
60°	14734.7	15001.9	16493.8	18076.8	20250.9	20934.8	20365.7	22450.2	25367.9	25999.9	18746.5
62.5°	10523.2	10963.4	12985.0	15512.8	19141.1	22440.8	23839.9	24159.0	26680.6	27427.3	20587.4
65°	5319.8	5653.0	7347.7	10392.7	15292.8	21456.7	27615.9	27900.5	28961.6	29625.0	23421.7
67.5°	3232.1	3357.9	4184.8	5780.4	9375.6	16713.9	28848.4	34136.7	33375.9	33728.0	27463.4
70°	2381.6	2474.4	2990.0	3838.9	5392.1	9807.9	25066.1	38587.2	38087.3	38047.9	30450.3
72°	1855.0	1922.6	2378.5	3101.6	3942.7	5884.1	18168.0	36944.4	39436.1	39238.0	30176.8
72.5°	1759.1	1818.8	2233.9	2919.3	3725.7	5333.9	16335.0	35836.1	39338.6	39249.0	29823.1
75°	1385.0	1427.4	1653.8	2257.4	2916.1	3026.2	8951.2	27771.6	34897.6	36348.6	26823.6
77.5°	1146.0	1152.3	1271.8	1642.8	2273.2	2139.5	4397.0	19268.4	24989.1	26584.7	19001.2
80°	933.8	941.6	998.2	1152.3	1719.8	1583.0	2087.7	11079.7	13991.1	14008.4	9036.1
82.5°	743.6	745.1	808.0	842.6	1235.6	1131.9	1196.3	5201.9	6113.6	5881.0	3247.8
85°	523.5	512.5	789.2	691.7	808.0	726.3	660.3	2059.4	2527.8	2417.8	1017.1
87.5°	174.5	180.8	350.6	448.0	471.6	411.9	294.0	789.2	954.2	946.4	322.3
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°	5616.9	5616.9	5616.9	5616.9	5616.9	5616.9	5616.9	5616.9	5616.9	5616.9	5616.9
2.5°	5645.2	5594.9	5521.0	5439.2	5374.8	5308.8	5260.0	5234.9	5206.6	5183.0	5211.3
5°	5704.9	5610.6	5453.4	5299.3	5186.1	5085.5	5013.2	4975.5	4940.9	4917.3	4920.5
7.5°	5802.4	5649.9	5385.8	5161.0	5003.8	4895.3	4821.4	4796.3	4774.3	4768.0	4775.8
10°	5906.1	5681.3	5296.2	4997.5	4818.3	4728.7	4695.7	4713.0	4728.7	4742.8	4758.5
12.5°	6024.0	5709.6	5165.7	4805.7	4653.2	4618.6	4651.6	4727.1	4782.1	4815.1	4835.6
15°	6178.1	5734.8	5014.8	4613.9	4511.7	4551.0	4662.7	4793.1	4889.0	4950.3	4959.8
17.5°	6319.6	5733.2	4821.4	4420.6	4397.0	4511.7	4679.9	4863.9	4992.8	5079.2	5096.5
20°	6465.8	5690.8	4596.6	4231.9	4280.6	4469.3	4687.8	4909.5	5065.1	5165.7	5189.3
22.5°	6602.5	5616.9	4349.8	4060.6	4183.2	4412.7	4657.9	4882.7	5038.4	5120.1	5145.3
25°	6695.3	5488.0	4099.9	3915.9	4096.7	4343.5	4560.5	4741.3	4857.6	4898.5	4904.7
27.5°	6742.5	5319.8	3864.1	3790.2	4007.1	4230.3	4379.7	4469.3	4502.3	4499.2	4492.9
30°	6748.7	5098.1	3661.3	3688.0	3903.4	4063.7	4134.5	4117.2	4074.7	4002.4	4008.7
32.5°	6728.3	4848.2	3491.5	3590.5	3771.3	3860.9	3864.1	3780.7	3667.6	3552.8	3521.4
35°	6734.6	4602.9	3342.1	3480.5	3611.0	3650.3	3614.1	3491.5	3337.4	3189.7	3158.2
37.5°	6803.8	4389.1	3213.2	3353.1	3433.3	3442.8	3390.9	3262.0	3148.8	3004.2	2991.6
40°	6968.8	4236.6	3090.6	3210.1	3255.7	3260.4	3186.5	3095.3	3104.8	3027.7	3026.2
42.5°	7265.9	4170.6	2982.1	3060.8	3089.0	3098.5	3041.9	2983.7	3065.5	3015.2	2997.9
45°	7649.5	4186.3	2891.0	2914.6	2966.4	3010.4	2975.9	2905.1	2936.6	2718.0	2645.7
47.5°	8092.8	4286.9	2818.7	2788.8	2878.4	2961.7	2908.3	2801.4	2689.8	2472.8	2431.9
50°	8611.6	4442.6	2752.6	2664.6	2782.5	2895.7	2842.2	2689.8	2521.5	2416.2	2402.1
52.5°	9152.4	4632.8	2686.6	2527.8	2661.5	2845.4	2818.7	2664.6	2457.1	2353.3	2334.5
55°	9765.5	4824.6	2603.3	2369.1	2531.0	2821.8	2807.7	2573.4	2408.4	2350.2	2336.0
57.5°	10527.9	5043.1	2493.2	2204.0	2408.4	2736.9	2692.9	2518.4	2358.1	2314.0	2309.3
60°	11521.4	5365.4	2334.5	2027.9	2259.0	2606.4	2597.0	2438.2	2277.9	2246.4	2240.1
62.5°	13011.7	5898.3	2116.0	1851.9	2092.4	2384.8	2471.2	2329.8	2193.0	2191.4	2194.6
65°	15322.6	6700.0	1878.6	1697.8	1924.2	2197.7	2325.0	2218.1	2106.5	2138.0	2142.7
67.5°	18001.4	7365.0	1645.9	1546.9	1752.8	2020.1	2193.0	2106.5	1991.8	2073.5	2075.1
70°	18892.7	6770.8	1441.6	1397.5	1575.2	1848.7	2049.9	1983.9	1867.6	1949.3	1941.5
72°	17581.6	5466.0	1309.5	1284.4	1441.6	1707.2	1922.6	1869.1	1754.4	1809.4	1789.0
72.5°	17168.2	5211.3	1276.5	1256.1	1405.4	1671.1	1889.6	1840.9	1726.1	1773.3	1754.4
75°	15314.8	4525.9	1097.3	1102.0	1226.2	1495.0	1704.1	1688.4	1570.5	1575.2	1568.9
77.5°	11108.0	3318.6	924.4	955.8	1043.8	1314.2	1517.0	1507.6	1378.7	1355.1	1350.4
80°	5154.7	1693.1	753.0	767.2	858.3	1098.9	1293.8	1281.2	1177.5	1147.6	1130.3
82.5°	1765.4	804.9	565.9	575.4	665.0	885.1	1122.4	1114.6	1028.1	969.9	933.8
85°	630.4	400.9	396.2	386.7	474.8	696.4	977.8	935.4	808.0	688.6	685.4
87.5°	204.4	171.4	204.4	202.8	276.7	471.6	710.6	605.2	586.4	487.3	477.9
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)