

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: P317721

Luminaire Tested: **GAN-SA7B-730-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317721
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-SA7B-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37637 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

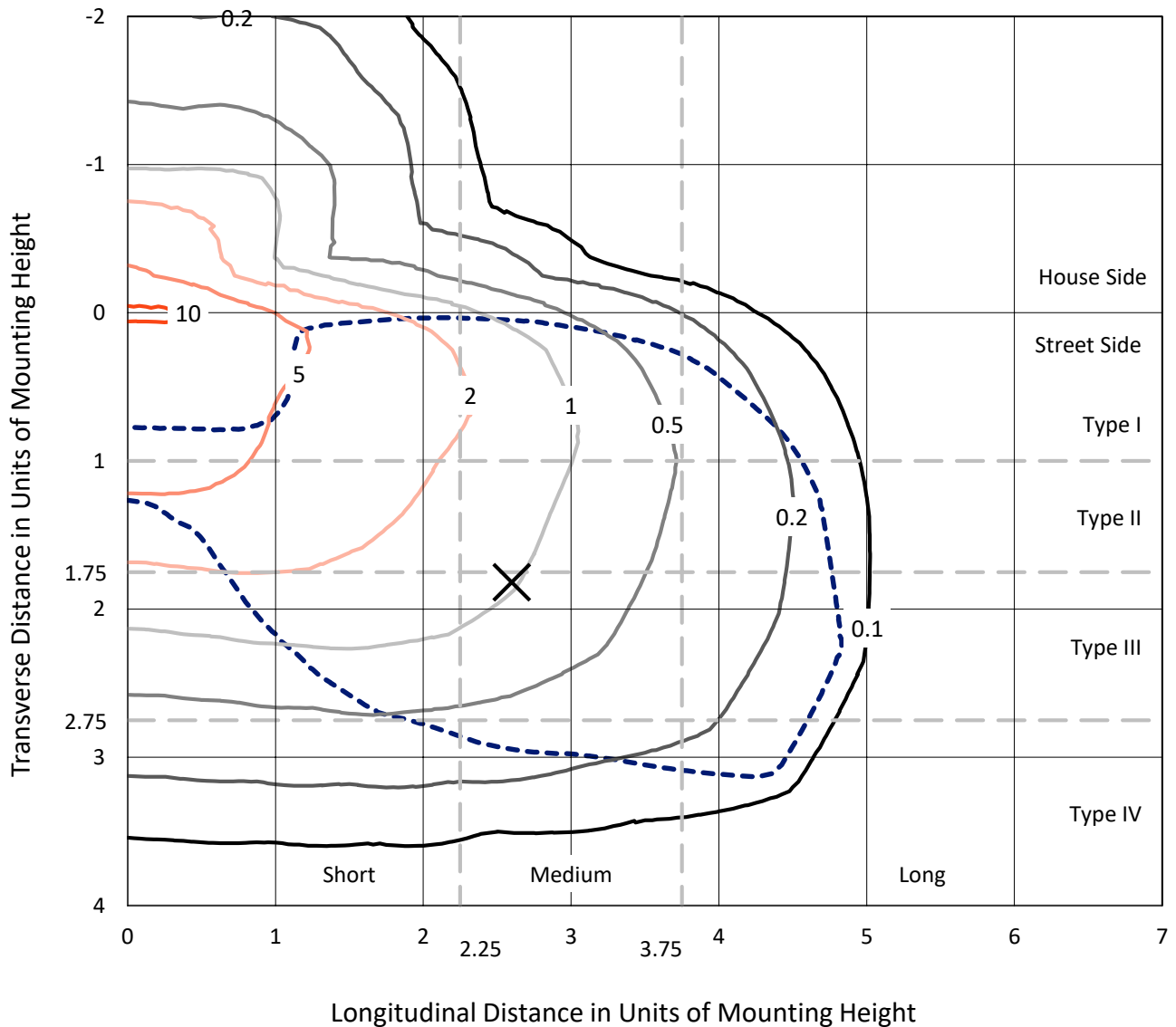
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

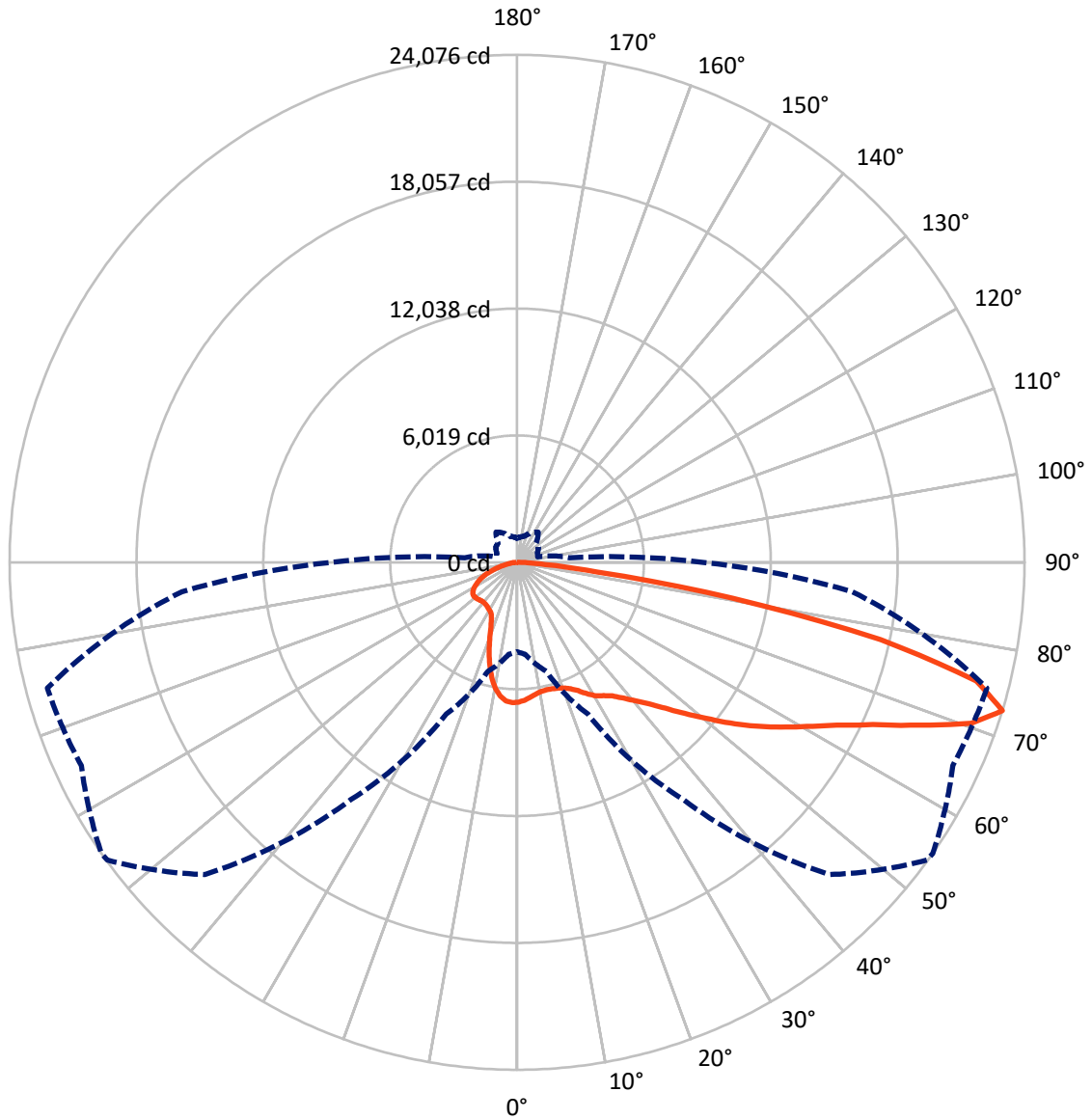
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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
House Side	Lumens	6995.5	0.0	6995.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	30641.5	0.0	30641.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	37637.0	0.0	37637.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.7	1.6
10°-20°	1599.3	4.2
20°-30°	2636.8	7.0
30°-40°	3900.5	10.4
40°-50°	5444.2	14.5
50°-60°	7088.6	18.8
60°-70°	8711.7	23.1
70°-80°	6828.9	18.1
80°-90°	826.4	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°	37637.0	100.0
0°-180°	37637.0	100.0

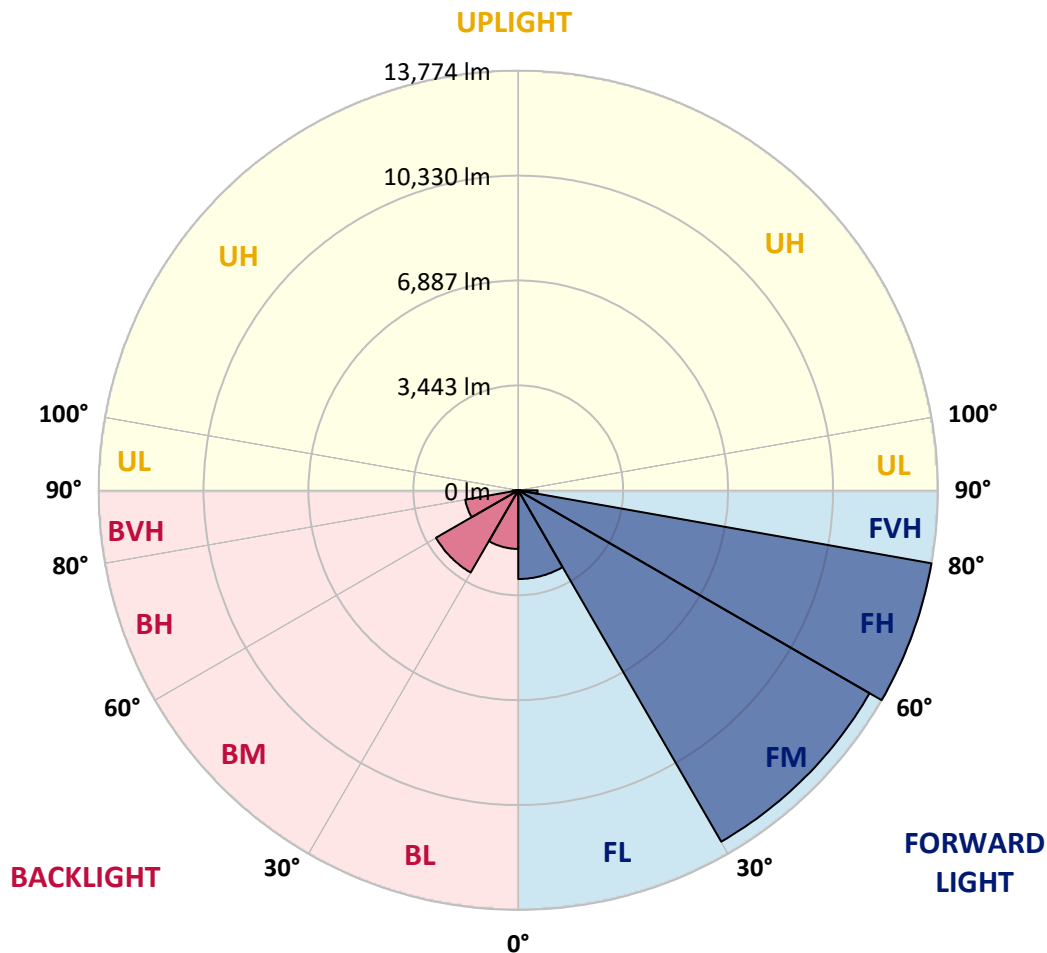


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2912.0	7.7			
FM (30°-60°)	13316.7	35.4			
FH (60°-80°)	13773.9	36.6			G5
FVH (80°-90°)	638.9	1.7			G4/750
BL (0°-30°)	1924.7	5.1	B3/2500		
BM (30°-60°)	3116.6	8.3	B3/5000		
BH (60°-80°)	1766.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	187.5	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°	6638.4	6638.4	6638.4	6638.4	6638.4	6638.4	6638.4	6638.4	6638.4	6638.4	6638.4
2.5°	6422.2	6407.0	6426.1	6452.8	6482.0	6521.4	6544.3	6554.5	6593.9	6609.1	6642.2
5°	6124.8	6117.2	6148.9	6194.7	6259.5	6351.1	6424.8	6438.8	6543.0	6616.7	6684.1
7.5°	5908.7	5908.7	5945.5	6000.2	6072.7	6196.0	6300.2	6319.3	6496.0	6654.9	6779.5
10°	5737.1	5743.4	5786.6	5851.5	5936.6	6067.6	6206.1	6227.8	6483.3	6743.9	6942.2
12.5°	5622.6	5637.9	5677.3	5735.8	5841.3	6000.2	6175.6	6204.9	6510.0	6871.0	7137.9
15°	5695.1	5720.5	5724.3	5748.5	5807.0	5979.9	6193.4	6223.9	6567.2	7000.7	7360.4
17.5°	6012.9	6021.8	5982.4	5931.6	5903.6	6014.2	6246.8	6278.6	6635.8	7129.1	7574.0
20°	6496.0	6490.9	6405.7	6268.4	6126.1	6143.8	6334.5	6367.6	6728.6	7242.2	7787.5
22.5°	7106.2	7088.4	6957.4	6704.5	6461.7	6360.0	6488.4	6516.3	6868.4	7403.6	8016.4
25°	7846.0	7806.6	7633.7	7294.3	6937.1	6675.2	6719.7	6746.4	7071.8	7584.2	8226.1
27.5°	8626.6	8587.2	8367.2	7956.6	7481.2	7073.1	7038.8	7061.7	7303.2	7717.6	8381.2
30°	9442.7	9400.7	9199.9	8739.7	8058.3	7485.0	7336.3	7345.2	7465.9	7790.1	8508.3
32.5°	10262.6	10223.2	9998.2	9464.3	8685.0	7927.4	7551.1	7539.7	7563.8	7865.1	8652.0
35°	11094.0	11109.3	10846.1	10255.0	9379.1	8419.3	7805.3	7781.2	7727.8	8018.9	8855.4
37.5°	11983.9	11973.7	11633.0	11015.2	10105.0	8953.3	8170.2	8166.4	7982.0	8310.0	9174.5
40°	12578.8	12585.2	12378.0	11793.2	10838.5	9544.4	8638.0	8629.1	8387.6	8746.1	9592.7
42.5°	12811.4	12853.4	12906.8	12535.6	11606.3	10229.6	9196.1	9183.4	8953.3	9371.5	10084.7
45°	12828.0	12911.9	13242.4	13195.4	12384.3	11013.9	9909.2	9873.6	9708.4	10202.9	10672.0
47.5°	12685.6	12772.0	13321.2	13588.2	13079.7	11841.5	10743.2	10715.2	10572.8	11242.7	11307.6
50°	12374.1	12456.8	13158.5	13780.1	13651.7	12637.3	11704.2	11630.5	11554.2	12444.1	12034.7
52.5°	11790.6	11949.6	12941.1	13825.9	13993.7	13344.1	12714.8	12666.5	12708.5	13711.5	12763.1
55°	10408.8	10586.8	12380.5	13787.7	14246.7	13937.8	13725.5	13722.9	13940.3	15041.2	13544.9
57.5°	9634.6	9760.5	11238.9	13722.9	14546.7	14527.6	14725.9	14750.1	15173.4	16489.1	14363.6
60°	9197.3	9329.5	10660.5	13482.7	15011.9	15290.3	15746.7	15795.0	16426.8	18092.1	15348.8
62.5°	8799.4	8944.4	10302.0	12993.2	15559.8	16381.1	16969.6	17012.9	17754.0	19739.6	16301.0
65°	8119.3	8283.3	9777.0	12671.6	16058.2	17803.6	18524.3	18553.6	19278.2	21466.0	17029.4
67.5°	7158.3	7308.3	8786.7	11961.0	16426.8	19531.2	20591.4	20607.9	20789.7	22685.1	17401.9
70°	6035.8	6093.0	7375.7	10494.0	15990.8	21146.9	22856.7	22860.5	22167.7	23465.6	17340.8
72.5°	4240.8	4375.6	5354.4	7943.9	13742.0	20949.9	24032.6	24075.8	22808.4	23071.5	15955.2
75°	2600.9	2743.3	3358.6	4814.1	8718.1	16476.4	22204.6	22504.6	21607.1	20571.0	13033.9
77.5°	1739.0	1792.4	2191.6	2806.9	3949.7	9479.6	17071.3	17635.8	17949.8	15001.8	8335.4
80°	969.9	1071.6	1453.0	1744.1	1756.8	3766.7	10235.9	10368.1	9986.8	5973.5	2571.7
82.5°	513.6	569.5	969.9	1024.6	958.5	1261.1	3815.0	3818.8	3190.8	1601.7	764.0
85°	397.9	444.9	664.9	625.4	489.4	559.3	1258.5	1327.2	1085.6	656.0	249.2
87.5°	198.3	246.6	451.3	396.6	192.0	160.2	450.0	480.5	428.4	256.8	90.3
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°	6638.4	6638.4	6638.4	6638.4	6638.4	6638.4	6638.4	6638.4	6638.4	6638.4	6638.4
2.5°	6654.9	6666.3	6680.3	6665.1	6660.0	6639.6	6605.3	6597.7	6579.9	6581.2	6591.3
5°	6713.4	6732.4	6724.8	6666.3	6596.4	6498.5	6396.8	6310.4	6253.2	6249.4	6245.5
7.5°	6825.2	6837.9	6778.2	6611.7	6415.9	6189.6	5976.0	5789.2	5676.0	5648.1	5641.7
10°	7000.7	6998.1	6834.1	6498.5	6108.3	5704.0	5360.8	5101.4	4950.2	4905.7	4894.2
12.5°	7196.4	7167.2	6853.2	6292.6	5673.5	5112.9	4678.1	4389.6	4231.9	4181.1	4168.4
15°	7398.6	7326.1	6806.2	5984.9	5139.6	4476.0	4019.6	3752.7	3667.5	3639.5	3634.4
17.5°	7586.7	7446.9	6671.4	5568.0	4530.7	3841.7	3485.7	3378.9	3399.3	3436.1	3437.4
20°	7771.0	7528.2	6455.3	5041.7	3888.7	3319.2	3198.4	3277.2	3373.8	3448.8	3459.0
22.5°	7952.8	7585.4	6176.9	4434.0	3314.1	3025.5	3110.7	3254.3	3364.9	3446.3	3460.3
25°	8105.4	7599.4	5793.0	3785.7	2914.9	2914.9	3068.7	3204.8	3314.1	3394.2	3408.2
27.5°	8161.3	7505.3	5251.4	3185.7	2714.1	2864.1	3010.3	3123.4	3216.2	3301.4	3316.6
30°	8182.9	7331.2	4626.0	2703.9	2631.4	2809.4	2931.5	3028.1	3115.8	3195.9	3209.9
32.5°	8186.7	7121.4	3962.4	2430.6	2574.2	2752.2	2833.6	2918.7	3012.8	3044.6	3049.7
35°	8210.9	6873.5	3263.2	2290.8	2520.8	2698.8	2763.7	2824.7	2672.1	2683.6	2693.7
37.5°	8280.8	6628.2	2678.5	2211.9	2486.5	2670.9	2748.4	2527.2	2407.7	2379.7	2375.9
40°	8411.7	6366.3	2245.0	2148.4	2473.8	2684.8	2650.5	2359.4	2153.5	1999.6	1976.8
42.5°	8593.5	6084.1	1967.9	2106.4	2482.7	2752.2	2514.5	2198.0	1856.0	1756.8	1744.1
45°	8798.2	5787.9	1817.9	2077.2	2513.2	2804.3	2486.5	1983.1	1717.4	1642.4	1636.1
47.5°	8996.5	5425.6	1740.3	2064.5	2555.2	2762.4	2368.3	1917.0	1651.3	1611.9	1615.7
50°	9224.0	5098.9	1693.3	2050.5	2592.0	2735.7	2234.8	1882.7	1625.9	1674.2	1725.1
52.5°	9416.0	4760.8	1651.3	2022.5	2606.0	2688.6	2200.5	1889.0	1625.9	1718.7	1767.0
55°	9643.5	4505.2	1603.0	1964.0	2579.3	2555.2	2176.3	1927.2	1645.0	1586.5	1591.6
57.5°	9937.2	4421.3	1549.6	1872.5	2490.3	2360.7	2164.9	1964.0	1633.5	1596.7	1609.4
60°	10344.0	4510.3	1528.0	1753.0	2351.8	2208.1	2166.2	1945.0	1553.4	1489.9	1491.2
62.5°	10731.7	4609.5	1526.7	1678.0	2181.4	2072.1	2136.9	1882.7	1512.8	1475.9	1489.9
65°	10858.8	4509.0	1465.7	1594.1	1989.5	1909.4	2083.5	1816.6	1482.3	1426.3	1423.8
67.5°	10688.5	4197.6	1342.4	1458.1	1769.6	1720.0	2013.6	1737.8	1433.9	1388.2	1380.6
70°	10182.5	3502.2	1189.9	1278.9	1519.1	1506.4	1903.0	1646.2	1369.1	1329.7	1296.7
72.5°	8821.1	2495.4	1003.0	1064.0	1236.9	1277.6	1750.5	1526.7	1277.6	1192.4	1141.6
75°	7244.7	1847.1	823.8	836.5	939.4	1050.0	1540.7	1386.9	1169.5	1024.6	985.2
77.5°	4436.6	1130.1	656.0	661.0	673.8	837.7	1268.7	1230.5	1032.2	854.3	826.3
80°	1436.5	616.5	474.2	498.3	460.2	614.0	981.4	1047.5	886.0	714.4	683.9
82.5°	546.6	359.8	320.3	336.9	319.1	411.9	715.7	839.0	725.9	587.3	478.0
85°	264.4	203.4	189.4	212.3	197.0	211.0	457.6	617.8	550.4	382.6	355.9
87.5°	94.1	90.3	72.5	97.9	83.9	75.0	139.8	311.5	363.6	263.1	235.2
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)