

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: P317781

Luminaire Tested: **GAN-SA7D-740-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317781
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-SA7D-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56114 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

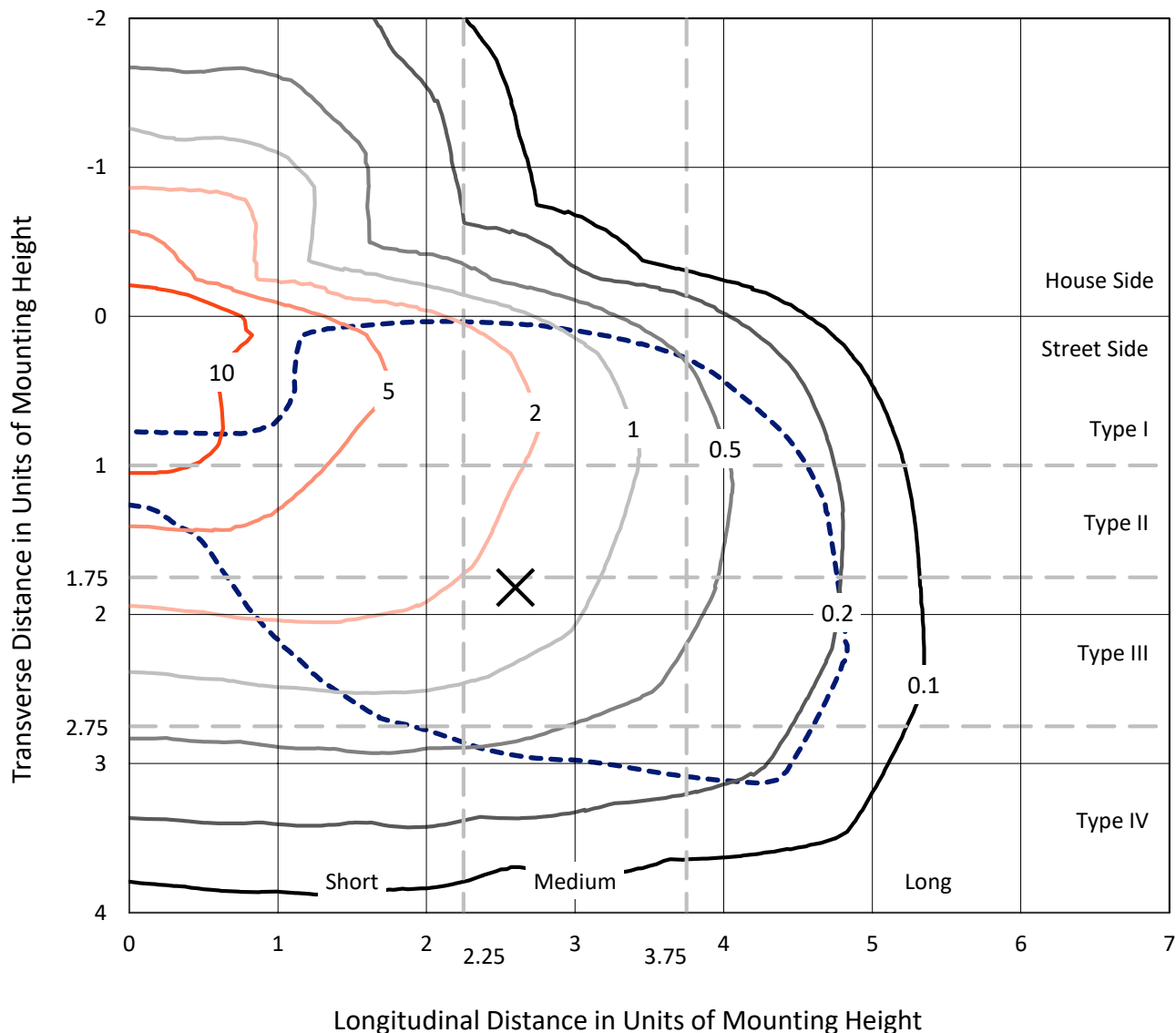
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

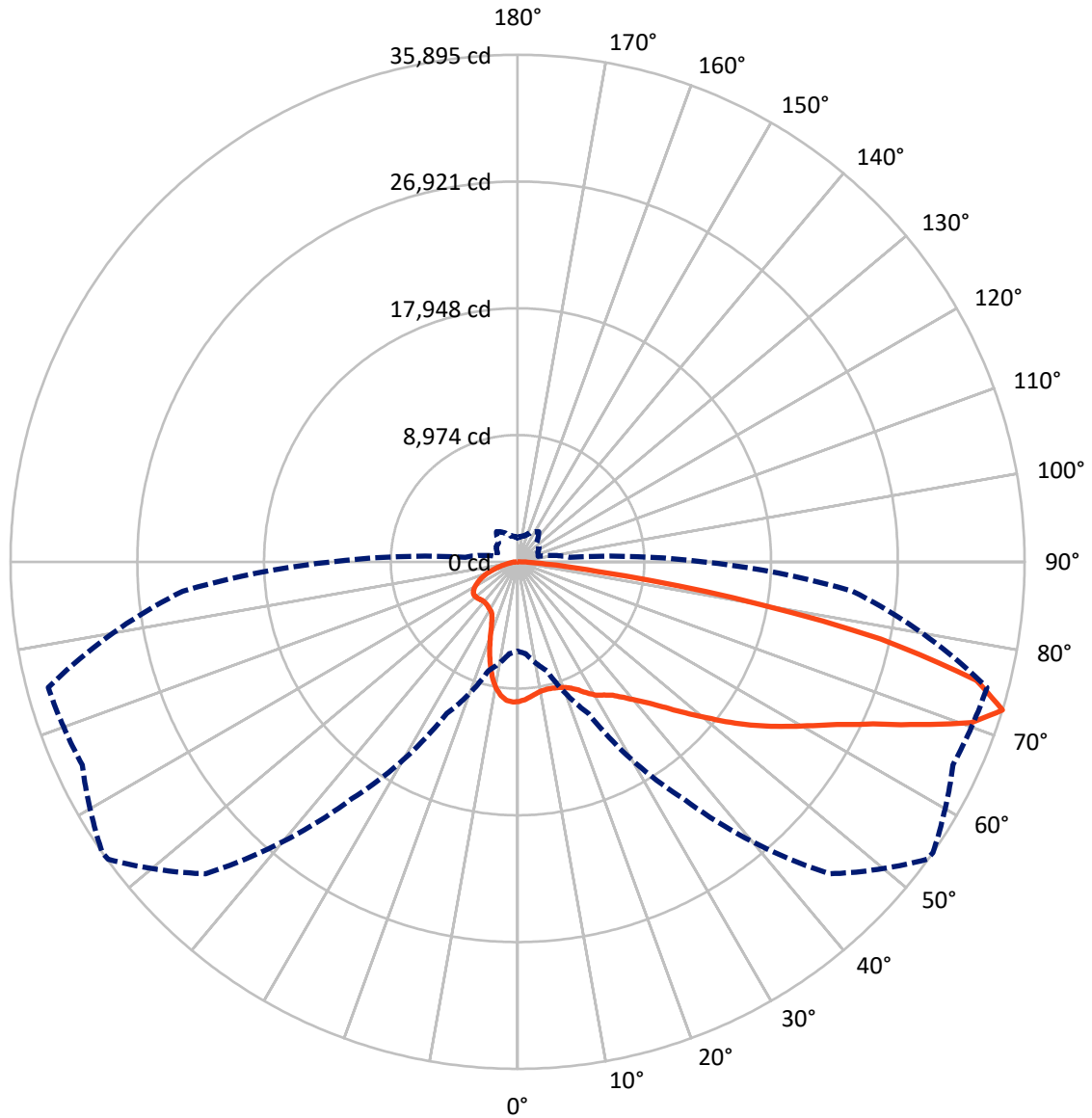
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 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	10429.8	0.0	10429.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	45684.2	0.0	45684.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	56114.0	0.0	56114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	895.6	1.6
10°-20°	2384.4	4.2
20°-30°	3931.3	7.0
30°-40°	5815.3	10.4
40°-50°	8117.0	14.5
50°-60°	10568.6	18.8
60°-70°	12988.4	23.1
70°-80°	10181.4	18.1
80°-90°	1232.1	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°	56114.0	100.0
0°-180°	56114.0	100.0

Coefficient of Utilization

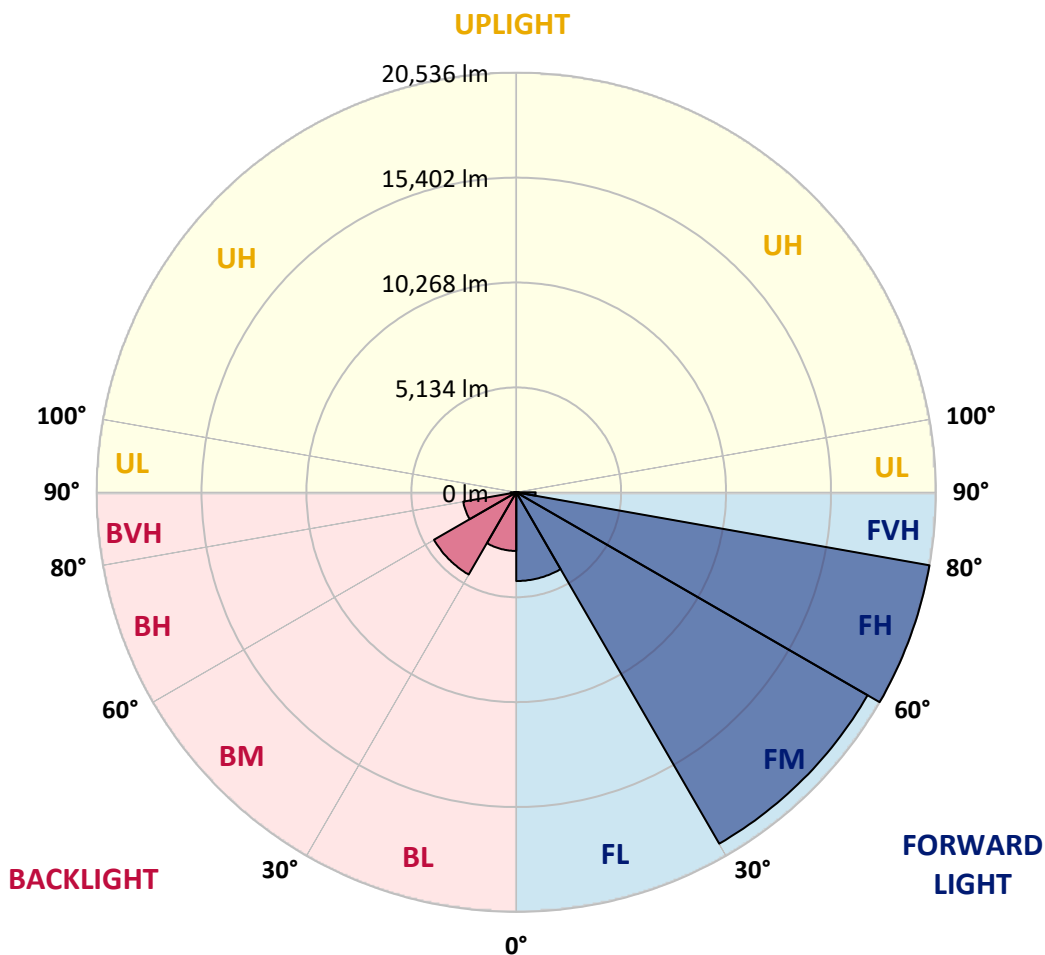


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4341.6	7.7			
FM (30°-60°)	19854.2	35.4			
FH (60°-80°)	20535.8	36.6			G5
FVH (80°-90°)	952.6	1.7			G5
BL (0°-30°)	2869.7	5.1	B4/5000		
BM (30°-60°)	4646.6	8.3	B3/5000		
BH (60°-80°)	2634.0	4.7	B4/5000		G4/5000
BVH (80°-90°)	279.5	0.5			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9897.3	9897.3	9897.3	9897.3	9897.3	9897.3	9897.3	9897.3	9897.3	9897.3	9897.3
2.5°	9575.1	9552.4	9580.8	9620.6	9664.2	9722.9	9757.0	9772.2	9831.0	9853.7	9903.0
5°	9131.6	9120.2	9167.6	9235.8	9332.5	9469.0	9578.9	9599.7	9755.2	9865.1	9965.5
7.5°	8809.4	8809.4	8864.4	8945.9	9053.9	9237.7	9393.2	9421.6	9685.0	9921.9	10107.7
10°	8553.5	8563.0	8627.4	8724.1	8851.1	9046.3	9252.9	9285.1	9666.1	10054.6	10350.3
12.5°	8383.0	8405.7	8464.4	8551.6	8708.9	8945.9	9207.4	9251.0	9705.9	10244.1	10642.2
15°	8491.0	8528.9	8534.6	8570.6	8657.8	8915.5	9233.9	9279.4	9791.2	10437.5	10973.8
17.5°	8964.8	8978.1	8919.3	8843.5	8801.8	8966.7	9313.5	9360.9	9893.5	10628.9	11292.2
20°	9685.0	9677.4	9550.5	9345.8	9133.5	9160.0	9444.3	9493.6	10031.9	10797.6	11610.7
22.5°	10594.8	10568.2	10373.0	9995.9	9633.9	9482.2	9673.7	9715.4	10240.4	11038.3	11951.8
25°	11697.8	11639.1	11381.3	10875.3	10342.7	9952.3	10018.6	10058.4	10543.6	11307.4	12264.5
27.5°	12861.6	12802.8	12474.9	11862.7	11153.9	10545.5	10494.3	10528.4	10888.5	11506.4	12495.8
30°	14078.4	14015.8	13716.3	13030.2	12014.4	11159.6	10937.8	10951.1	11131.1	11614.5	12685.3
32.5°	15300.8	15242.1	14906.6	14110.6	12948.7	11819.1	11258.1	11241.1	11277.1	11726.3	12899.5
35°	16540.4	16563.1	16170.8	15289.5	13983.6	12552.6	11637.2	11601.2	11521.6	11955.6	13202.7
37.5°	17867.1	17851.9	17344.0	16422.9	15065.8	13348.7	12181.1	12175.5	11900.6	12389.6	13678.4
40°	18754.1	18763.6	18454.6	17582.8	16159.4	14230.0	12878.6	12865.4	12505.2	13039.7	14302.0
42.5°	19100.9	19163.5	19243.1	18689.6	17304.2	15251.5	13710.7	13691.7	13348.7	13972.2	15035.5
45°	19125.6	19250.7	19743.4	19673.3	18464.1	16421.0	14773.9	14720.9	14474.5	15211.7	15911.1
47.5°	18913.3	19042.2	19860.9	20259.0	19500.8	17654.8	16017.3	15975.6	15763.3	16762.1	16858.8
50°	18448.9	18572.1	19618.3	20545.1	20353.7	18841.3	17450.1	17340.2	17226.5	18553.2	17942.9
52.5°	17579.0	17815.9	19294.2	20613.4	20863.6	19895.1	18956.9	18884.9	18947.4	20442.8	19028.9
55°	15518.8	15784.1	18458.4	20556.5	21240.7	20780.2	20463.6	20459.9	20784.0	22425.3	20194.5
57.5°	14364.5	14552.2	16756.4	20459.9	21688.0	21659.6	21955.3	21991.3	22622.4	24584.0	21415.1
60°	13712.6	13909.7	15894.1	20101.6	22381.7	22796.8	23477.2	23549.2	24491.2	26974.0	22884.0
62.5°	13119.3	13335.4	15359.6	19372.0	23198.6	24422.9	25300.5	25364.9	26469.9	29430.4	24303.5
65°	12105.3	12349.8	14576.8	18892.4	23941.5	26543.8	27618.4	27662.0	28742.4	32004.2	25389.6
67.5°	10672.5	10896.1	13100.4	17833.0	24491.2	29119.5	30700.2	30724.9	30995.9	33821.8	25944.9
70°	8998.9	9084.2	10996.6	15645.8	23841.1	31528.5	34077.7	34083.3	33050.4	34985.5	25853.9
72.5°	6322.7	6523.7	7983.0	11843.8	20488.3	31234.7	35830.8	35895.3	34005.6	34398.0	23788.0
75°	3877.8	4090.1	5007.4	7177.5	12998.0	24565.1	33105.4	33552.7	32214.6	30669.9	19432.6
77.5°	2592.8	2672.4	3267.5	4184.8	5888.7	14133.3	25452.1	26293.6	26761.8	22366.5	12427.5
80°	1446.1	1597.7	2166.3	2600.4	2619.3	5615.8	15261.0	15458.1	14889.5	8906.1	3834.2
82.5°	765.7	849.1	1446.1	1527.6	1429.1	1880.1	5687.8	5693.5	4757.2	2388.1	1139.1
85°	593.2	663.4	991.2	932.5	729.7	833.9	1876.4	1978.7	1618.6	978.0	371.5
87.5°	295.7	367.7	672.8	591.3	286.2	238.8	670.9	716.4	638.7	382.9	134.6
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°	9897.3	9897.3	9897.3	9897.3	9897.3	9897.3	9897.3	9897.3	9897.3	9897.3	9897.3
2.5°	9921.9	9939.0	9959.8	9937.1	9929.5	9899.2	9848.0	9836.7	9810.1	9812.0	9827.2
5°	10009.1	10037.6	10026.2	9939.0	9834.8	9688.8	9537.2	9408.3	9323.0	9317.3	9311.7
7.5°	10175.9	10194.9	10105.8	9857.5	9565.6	9228.3	8909.8	8631.2	8462.6	8420.9	8411.4
10°	10437.5	10433.7	10189.2	9688.8	9107.0	8504.3	7992.5	7605.9	7380.3	7314.0	7296.9
12.5°	10729.3	10685.8	10217.6	9381.8	8458.8	7622.9	6974.7	6544.5	6309.5	6233.7	6214.7
15°	11030.7	10922.7	10147.5	8923.1	7662.7	6673.4	5993.0	5595.0	5468.0	5426.3	5418.7
17.5°	11311.2	11102.7	9946.6	8301.5	6754.9	5727.6	5196.9	5037.7	5068.1	5123.0	5124.9
20°	11586.0	11224.0	9624.4	7516.8	5797.7	4948.7	4768.6	4886.1	5030.1	5142.0	5157.1
22.5°	11857.1	11309.3	9209.3	6610.8	4941.1	4510.8	4637.8	4852.0	5016.9	5138.2	5159.0
25°	12084.5	11330.2	8636.9	5644.2	4345.9	4345.9	4575.3	4778.1	4941.1	5060.5	5081.3
27.5°	12167.9	11189.9	7829.5	4749.6	4046.5	4270.1	4488.1	4656.8	4795.1	4922.1	4944.9
30°	12200.1	10930.2	6897.0	4031.3	3923.3	4188.6	4370.6	4514.6	4645.4	4764.8	4785.7
32.5°	12205.8	10617.5	5907.7	3623.8	3838.0	4103.3	4224.6	4351.6	4491.9	4539.3	4546.8
35°	12241.8	10247.9	4865.3	3415.3	3758.4	4023.7	4120.4	4211.4	3983.9	4001.0	4016.2
37.5°	12346.0	9882.1	3993.4	3297.8	3707.2	3982.0	4097.7	3767.9	3589.7	3548.0	3542.3
40°	12541.3	9491.7	3347.1	3203.1	3688.3	4002.9	3951.7	3517.7	3210.7	2981.3	2947.2
42.5°	12812.3	9070.9	2933.9	3140.5	3701.5	4103.3	3748.9	3277.0	2767.2	2619.3	2600.4
45°	13117.4	8629.3	2710.3	3096.9	3747.0	4181.1	3707.2	2956.7	2560.6	2448.7	2439.3
47.5°	13413.1	8089.2	2594.7	3078.0	3809.6	4118.5	3531.0	2858.1	2462.0	2403.3	2408.9
50°	13752.4	7602.1	2524.6	3057.1	3864.5	4078.7	3332.0	2807.0	2424.1	2496.1	2571.9
52.5°	14038.6	7097.9	2462.0	3015.4	3885.4	4008.6	3280.8	2816.4	2424.1	2562.5	2634.5
55°	14377.8	6717.0	2390.0	2928.3	3845.6	3809.6	3244.8	2873.3	2452.5	2365.3	2372.9
57.5°	14815.6	6591.9	2310.4	2791.8	3712.9	3519.6	3227.7	2928.3	2435.5	2380.5	2399.5
60°	15422.1	6724.6	2278.2	2613.6	3506.3	3292.2	3229.6	2899.8	2316.1	2221.3	2223.2
62.5°	16000.2	6872.4	2276.3	2501.8	3252.3	3089.4	3186.0	2807.0	2255.4	2200.5	2221.3
65°	16189.7	6722.7	2185.3	2376.7	2966.2	2846.8	3106.4	2708.4	2209.9	2126.5	2122.7
67.5°	15935.8	6258.3	2001.4	2173.9	2638.3	2564.4	3002.2	2590.9	2137.9	2069.7	2058.3
70°	15181.4	5221.6	1774.0	1906.7	2264.9	2245.9	2837.3	2454.4	2041.2	1982.5	1933.2
72.5°	13151.5	3720.5	1495.4	1586.4	1844.1	1904.8	2609.8	2276.3	1904.8	1777.8	1702.0
75°	10801.4	2753.9	1228.2	1247.1	1400.6	1565.5	2297.1	2067.8	1743.7	1527.6	1468.9
77.5°	6614.6	1684.9	978.0	985.6	1004.5	1249.0	1891.5	1834.7	1539.0	1273.6	1232.0
80°	2141.7	919.2	707.0	743.0	686.1	915.4	1463.2	1561.7	1321.0	1065.2	1019.7
82.5°	815.0	536.4	477.6	502.3	475.7	614.1	1067.1	1250.9	1082.2	875.6	712.6
85°	394.2	303.2	282.4	316.5	293.8	314.6	682.3	921.1	820.7	570.5	530.7
87.5°	140.3	134.6	108.0	145.9	125.1	111.8	208.5	464.4	542.1	392.3	350.6
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)