

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: P317772

Luminaire Tested: **GAN-SA8C-740-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317772
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-SA8C-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57959 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

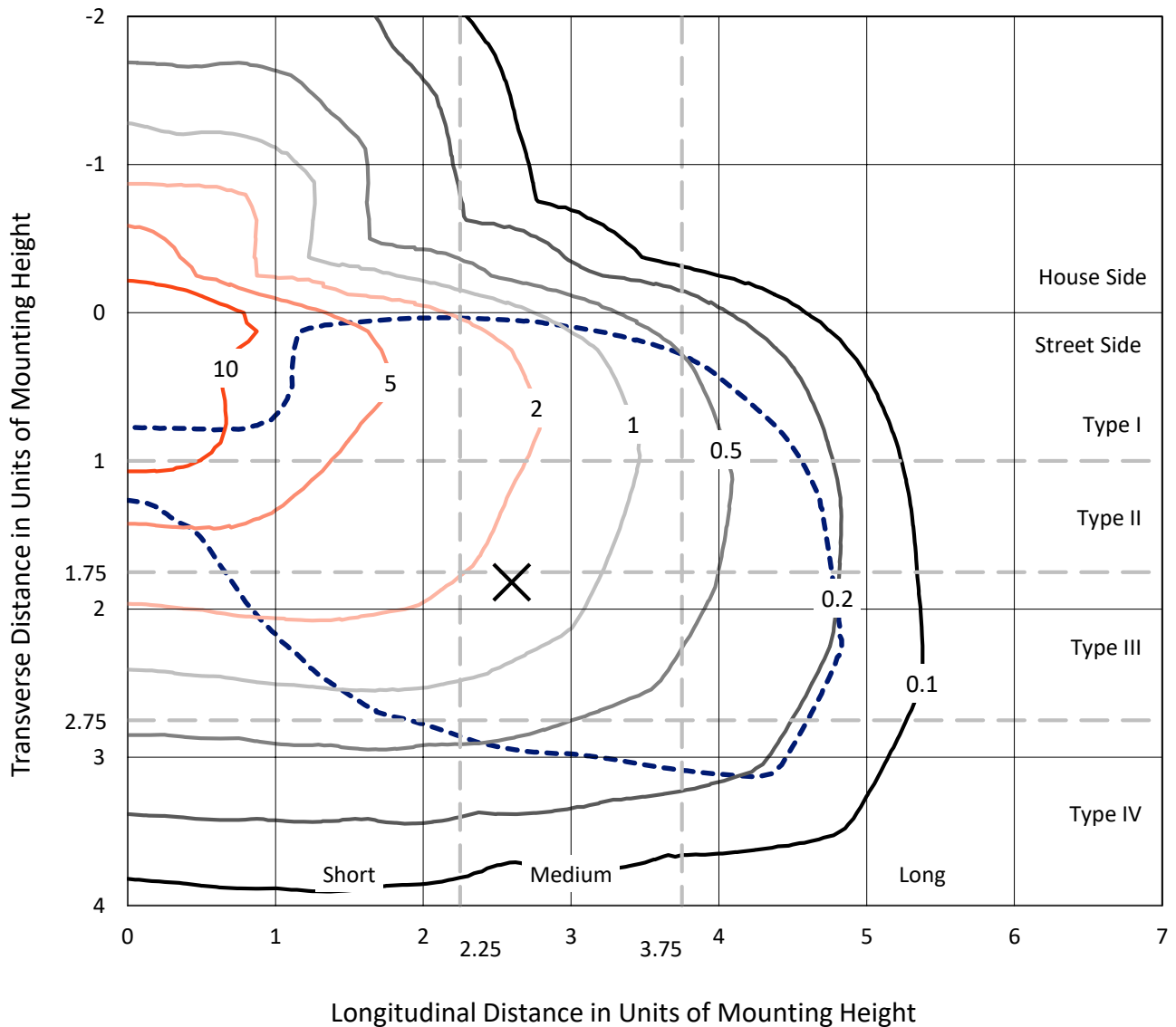
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

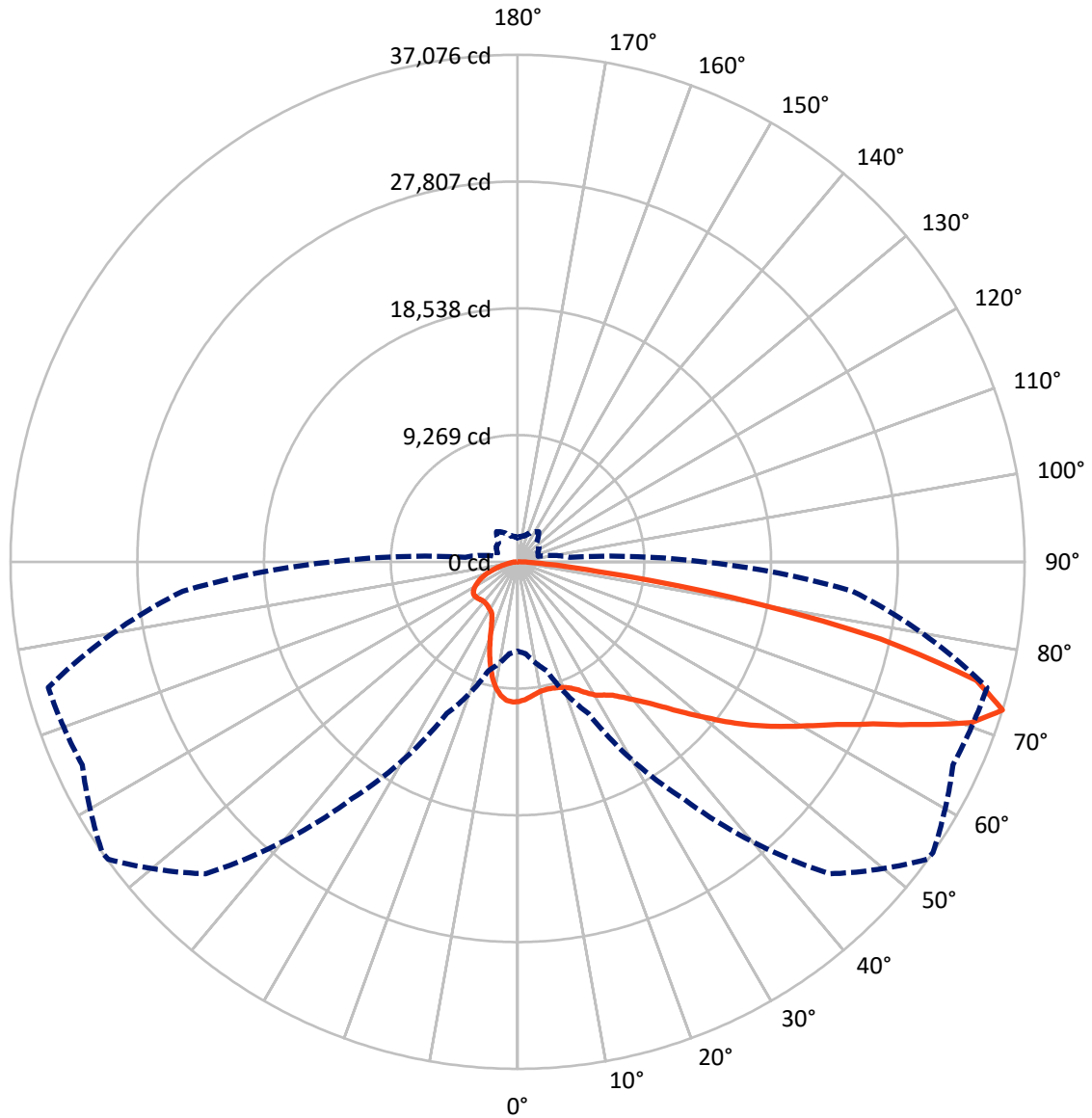
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 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	10772.7	0.0	10772.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	47186.3	0.0	47186.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	57959.0	0.0	57959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	925.0	1.6
10°-20°	2462.8	4.2
20°-30°	4060.5	7.0
30°-40°	6006.5	10.4
40°-50°	8383.9	14.5
50°-60°	10916.0	18.8
60°-70°	13415.5	23.1
70°-80°	10516.1	18.1
80°-90°	1272.6	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°	57959.0	100.0
0°-180°	57959.0	100.0

Coefficient of Utilization

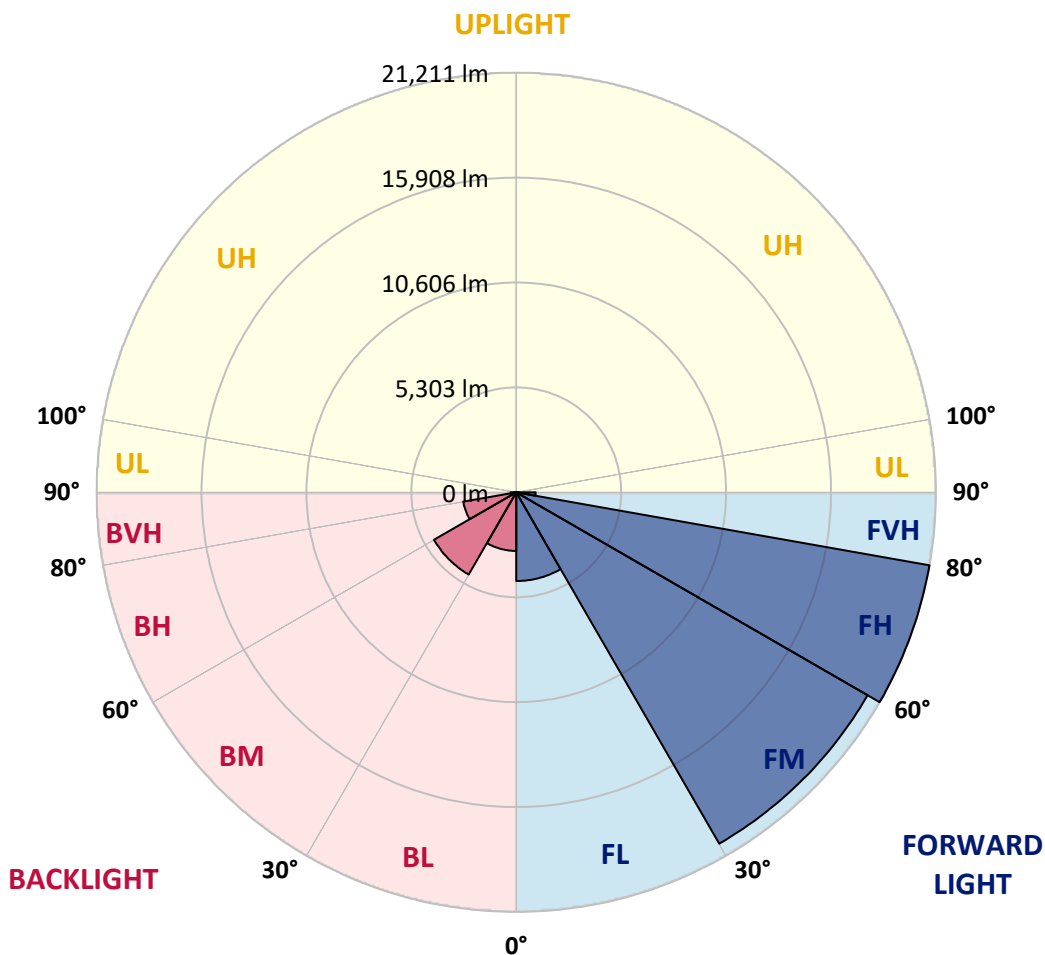


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4484.3	7.7			
FM (30°-60°)	20507.0	35.4			
FH (60°-80°)	21211.0	36.6			G5
FVH (80°-90°)	983.9	1.7			G5
BL (0°-30°)	2964.0	5.1	B4/5000		
BM (30°-60°)	4799.4	8.3	B3/5000		
BH (60°-80°)	2720.6	4.7	B4/5000		G4/5000
BVH (80°-90°)	288.7	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°	10222.7	10222.7	10222.7	10222.7	10222.7	10222.7	10222.7	10222.7	10222.7	10222.7	10222.7
2.5°	9889.9	9866.4	9895.8	9936.9	9981.9	10042.6	10077.9	10093.5	10154.2	10177.7	10228.6
5°	9431.8	9420.1	9469.0	9539.5	9639.3	9780.3	9893.8	9915.4	10075.9	10189.4	10293.2
7.5°	9099.0	9099.0	9155.8	9240.0	9351.6	9541.5	9702.0	9731.4	10003.5	10248.2	10440.0
10°	8834.8	8844.6	8911.1	9011.0	9142.1	9343.7	9557.1	9590.4	9983.9	10385.2	10690.6
12.5°	8658.6	8682.1	8742.8	8832.8	8995.3	9240.0	9510.1	9555.2	10025.0	10581.0	10992.1
15°	8770.2	8809.3	8815.2	8852.4	8942.4	9208.7	9537.6	9584.5	10113.1	10780.6	11334.7
17.5°	9259.6	9273.3	9212.6	9134.3	9091.2	9261.5	9619.8	9668.7	10218.8	10978.4	11663.5
20°	10003.5	9995.6	9864.5	9653.1	9433.8	9461.2	9754.8	9805.7	10361.7	11152.6	11992.4
22.5°	10943.1	10915.7	10714.1	10324.5	9950.6	9794.0	9991.7	10034.8	10577.1	11401.2	12344.8
25°	12082.5	12021.8	11755.5	11232.9	10682.8	10279.5	10348.0	10389.1	10890.3	11679.2	12667.8
27.5°	13284.4	13223.8	12885.1	12252.8	11520.6	10892.2	10839.4	10874.6	11246.6	11884.7	12906.6
30°	14541.2	14476.6	14167.3	13458.7	12409.4	11526.5	11297.5	11311.2	11497.1	11996.3	13102.4
32.5°	15803.9	15743.2	15396.7	14574.5	13374.5	12207.8	11628.3	11610.7	11647.9	12111.8	13323.6
35°	17084.2	17107.7	16702.5	15792.2	14443.4	12965.4	12019.8	11982.6	11900.4	12348.7	13636.8
37.5°	18454.5	18438.9	17914.2	16962.8	15561.2	13787.6	12581.7	12575.8	12291.9	12797.0	14128.2
40°	19370.7	19380.5	19061.4	18160.9	16690.7	14697.9	13302.1	13288.4	12916.4	13468.5	14772.2
42.5°	19729.0	19793.6	19875.8	19304.1	17873.1	15753.0	14161.5	14141.9	13787.6	14431.6	15529.8
45°	19754.4	19883.6	20392.6	20320.2	19071.2	16960.9	15259.7	15204.9	14950.4	15711.9	16434.3
47.5°	19535.1	19668.3	20514.0	20925.1	20142.0	18235.3	16543.9	16500.8	16281.6	17313.2	17413.1
50°	19055.5	19182.8	20263.4	21220.7	21022.9	19460.8	18023.9	17910.3	17792.9	19163.2	18532.8
52.5°	18157.0	18401.7	19928.6	21291.1	21549.5	20549.2	19580.2	19505.8	19570.4	21114.9	19654.6
55°	16029.0	16303.1	19065.3	21232.4	21939.1	21463.4	21136.5	21132.6	21467.3	23162.6	20858.5
57.5°	14836.8	15030.6	17307.4	21132.6	22401.1	22371.7	22677.1	22714.3	23366.2	25392.4	22119.2
60°	14163.4	14367.0	16416.6	20762.6	23117.6	23546.3	24249.1	24323.5	25296.4	27860.9	23636.4
62.5°	13550.7	13773.9	15864.6	20008.9	23961.3	25226.0	26132.3	26198.9	27340.2	30398.0	25102.6
65°	12503.4	12755.9	15056.1	19513.6	24728.7	27416.5	28526.5	28571.5	29687.4	33056.5	26224.4
67.5°	11023.4	11254.4	13531.1	18419.3	25296.4	30077.0	31709.6	31735.1	32015.0	34933.8	26797.9
70°	9294.8	9382.9	11358.1	16160.2	24625.0	32565.1	35198.1	35204.0	34137.1	36135.8	26704.0
72.5°	6530.6	6738.1	8245.5	12233.2	21161.9	32261.7	37008.9	37075.5	35123.7	35528.9	24570.2
75°	4005.3	4224.6	5172.0	7413.5	13425.4	25372.8	34193.8	34655.8	33273.8	31678.3	20071.5
77.5°	2678.0	2760.3	3374.9	4322.4	6082.3	14598.0	26289.0	27158.1	27641.7	23101.9	12836.2
80°	1493.7	1650.3	2237.6	2685.9	2705.4	5800.4	15762.8	15966.4	15379.1	9198.9	3960.3
82.5°	790.9	877.0	1493.7	1577.8	1476.0	1942.0	5874.8	5880.7	4913.6	2466.6	1176.5
85°	612.7	685.2	1023.8	963.2	753.7	861.4	1938.0	2043.8	1671.8	1010.1	383.7
87.5°	305.4	379.8	695.0	610.8	295.6	246.7	693.0	740.0	659.7	395.4	139.0
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°	10222.7	10222.7	10222.7	10222.7	10222.7	10222.7	10222.7	10222.7	10222.7	10222.7	10222.7
2.5°	10248.2	10265.8	10287.3	10263.8	10256.0	10224.7	10171.8	10160.1	10132.7	10134.6	10150.3
5°	10338.2	10367.6	10355.8	10265.8	10158.1	10007.4	9850.8	9717.7	9629.6	9623.7	9617.8
7.5°	10510.5	10530.1	10438.1	10181.6	9880.1	9531.7	9202.8	8915.0	8740.8	8697.7	8687.9
10°	10780.6	10776.7	10524.2	10007.4	9406.4	8783.9	8255.3	7856.0	7623.0	7554.5	7536.9
12.5°	11082.1	11037.1	10553.6	9690.2	8736.9	7873.6	7204.1	6759.7	6516.9	6438.6	6419.1
15°	11393.4	11281.8	10481.1	9216.5	7914.7	6892.8	6190.0	5778.9	5647.7	5604.7	5596.9
17.5°	11683.1	11467.8	10273.6	8574.4	6977.0	5915.9	5367.8	5203.4	5234.7	5291.5	5293.4
20°	11967.0	11593.1	9940.8	7763.9	5988.4	5111.4	4925.4	5046.8	5195.5	5311.0	5326.7
22.5°	12246.9	11681.2	9512.1	6828.2	5103.5	4659.1	4790.3	5011.5	5181.8	5307.1	5328.7
25°	12481.8	11702.7	8920.9	5829.8	4488.8	4488.8	4725.7	4935.2	5103.5	5226.9	5248.4
27.5°	12568.0	11557.8	8087.0	4905.8	4179.5	4410.5	4635.7	4809.9	4952.8	5084.0	5107.4
30°	12601.2	11289.6	7123.8	4163.9	4052.3	4326.4	4514.3	4663.1	4798.1	4921.5	4943.0
32.5°	12607.1	10966.6	6101.9	3743.0	3964.2	4238.3	4363.5	4494.7	4639.6	4688.5	4696.3
35°	12644.3	10584.9	5025.2	3527.6	3882.0	4156.0	4255.9	4349.8	4114.9	4132.5	4148.2
37.5°	12752.0	10207.1	4124.7	3406.3	3829.1	4113.0	4232.4	3891.8	3707.7	3664.7	3658.8
40°	12953.6	9803.8	3457.2	3308.4	3809.5	4134.5	4081.6	3633.4	3316.2	3079.3	3044.1
42.5°	13233.5	9369.2	3030.4	3243.8	3823.2	4238.3	3872.2	3384.7	2858.1	2705.4	2685.9
45°	13548.7	8913.1	2799.4	3198.8	3870.2	4318.5	3829.1	3053.9	2644.8	2529.3	2519.5
47.5°	13854.1	8355.1	2680.0	3179.2	3934.8	4253.9	3647.1	2952.1	2543.0	2482.3	2488.1
50°	14204.5	7852.0	2607.6	3157.6	3991.6	4212.8	3441.5	2899.2	2503.8	2578.2	2656.5
52.5°	14500.1	7331.3	2543.0	3114.6	4013.1	4140.4	3388.6	2909.0	2503.8	2646.7	2721.1
55°	14850.5	6937.8	2468.6	3024.5	3972.0	3934.8	3351.5	2967.8	2533.2	2443.1	2450.9
57.5°	15302.8	6808.6	2386.3	2883.6	3835.0	3635.3	3333.8	3024.5	2515.5	2458.8	2478.4
60°	15929.2	6945.7	2353.1	2699.6	3621.6	3400.4	3335.8	2995.2	2392.2	2294.3	2296.3
62.5°	16526.3	7098.4	2351.1	2584.1	3359.3	3190.9	3290.8	2899.2	2329.6	2272.8	2294.3
65°	16722.0	6943.7	2257.1	2454.9	3063.7	2940.4	3208.5	2797.4	2282.6	2196.5	2192.5
67.5°	16459.7	6464.1	2067.3	2245.4	2725.0	2648.7	3100.9	2676.1	2208.2	2137.7	2126.0
70°	15680.6	5393.3	1832.3	1969.4	2339.4	2319.8	2930.6	2535.1	2108.4	2047.7	1996.8
72.5°	13584.0	3842.8	1544.6	1638.5	1904.8	1967.4	2695.7	2351.1	1967.4	1836.3	1757.9
75°	11156.5	2844.4	1268.5	1288.1	1446.7	1617.0	2372.6	2135.8	1801.0	1577.8	1517.2
77.5°	6832.1	1740.3	1010.1	1018.0	1037.5	1290.1	1953.7	1895.0	1589.6	1315.5	1272.5
80°	2212.1	949.4	730.2	767.4	708.7	945.5	1511.3	1613.1	1364.5	1100.2	1053.2
82.5°	841.8	554.0	493.3	518.8	491.4	634.3	1102.1	1292.0	1117.8	904.4	736.1
85°	407.2	313.2	291.7	326.9	303.4	325.0	704.7	951.4	847.7	589.2	548.1
87.5°	144.9	139.0	111.6	150.7	129.2	115.5	215.3	479.6	559.9	405.2	362.2
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)