

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: P317724

Luminaire Tested: **GAN-SA0B-730-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317724
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-SA0B-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 52667 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

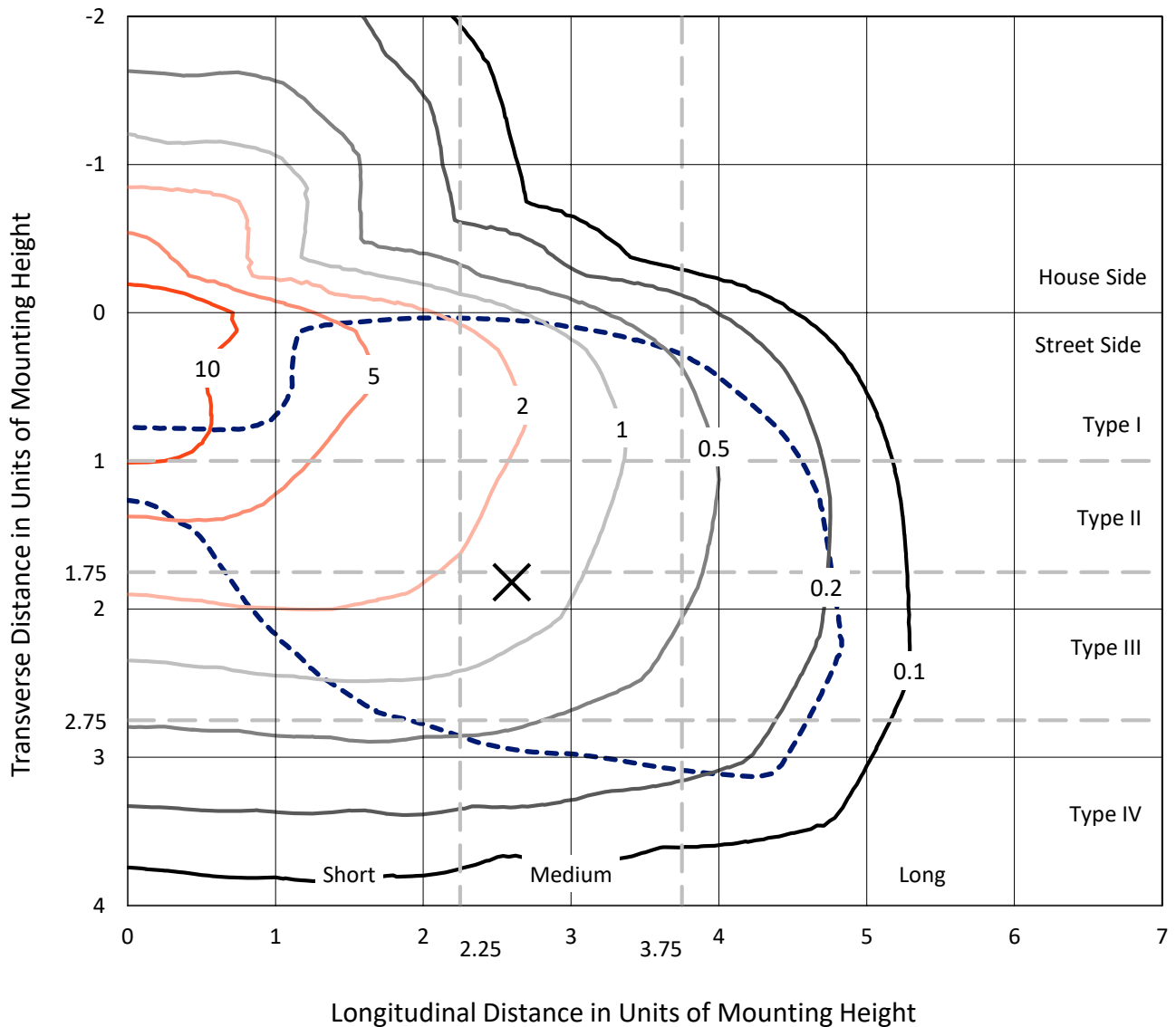
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

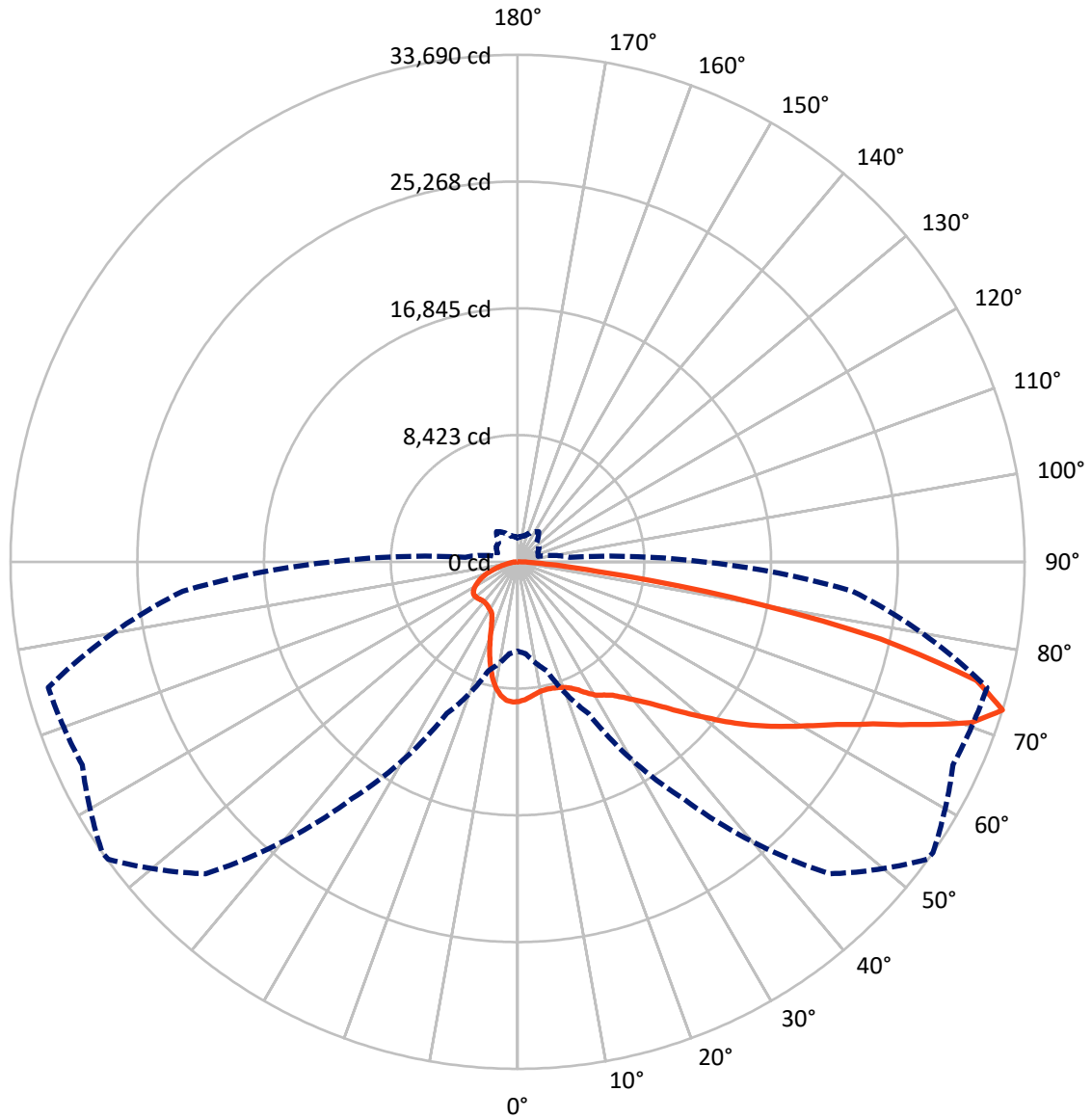
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 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	9789.1	0.0	9789.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	42877.9	0.0	42877.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	52667.0	0.0	52667.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	840.6	1.6
10°-20°	2237.9	4.2
20°-30°	3689.8	7.0
30°-40°	5458.1	10.4
40°-50°	7618.4	14.5
50°-60°	9919.3	18.8
60°-70°	12190.6	23.1
70°-80°	9555.9	18.1
80°-90°	1156.4	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°	52667.0	100.0
0°-180°	52667.0	100.0

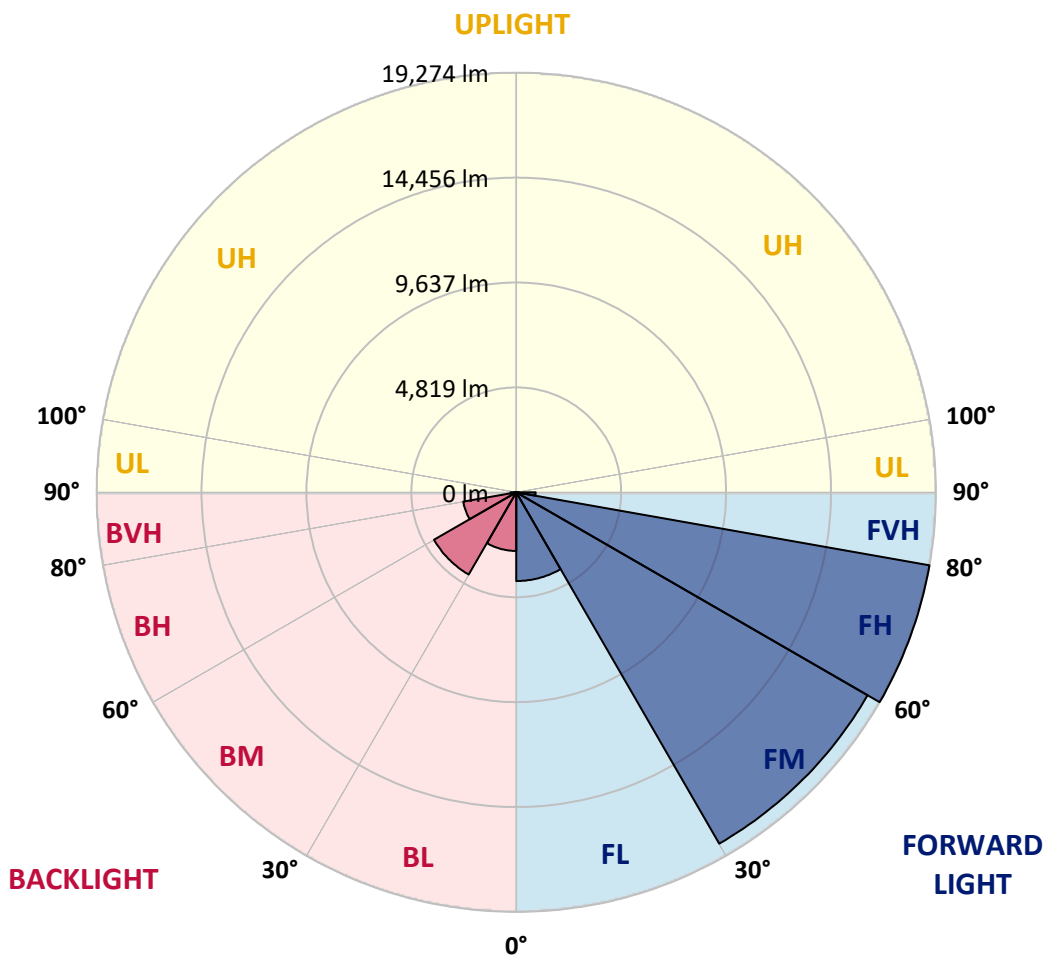


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4074.9	7.7			
FM (30°-60°)	18634.6	35.4			
FH (60°-80°)	19274.3	36.6			G5
FVH (80°-90°)	894.1	1.7			G5
BL (0°-30°)	2693.4	5.1	B4/5000		
BM (30°-60°)	4361.2	8.3	B3/5000		
BH (60°-80°)	2472.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	262.3	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°	9289.3	9289.3	9289.3	9289.3	9289.3	9289.3	9289.3	9289.3	9289.3	9289.3	9289.3
2.5°	8986.9	8965.6	8992.3	9029.6	9070.5	9125.7	9157.7	9171.9	9227.1	9248.4	9294.7
5°	8570.7	8560.0	8604.5	8668.5	8759.2	8887.3	8990.5	9010.0	9155.9	9259.1	9353.4
7.5°	8268.2	8268.2	8319.8	8396.3	8497.7	8670.3	8816.1	8842.8	9090.1	9312.5	9486.8
10°	8028.1	8037.0	8097.5	8188.2	8307.4	8490.6	8684.5	8714.7	9072.3	9437.0	9714.5
12.5°	7868.0	7889.3	7944.5	8026.3	8174.0	8396.3	8641.8	8682.7	9109.7	9614.9	9988.4
15°	7969.4	8005.0	8010.3	8044.1	8125.9	8367.9	8666.7	8709.4	9189.7	9796.3	10299.7
17.5°	8414.1	8426.6	8371.4	8300.3	8261.1	8415.9	8741.4	8785.9	9285.8	9976.0	10598.6
20°	9090.1	9083.0	8963.8	8771.7	8572.4	8597.3	8864.2	8910.4	9415.6	10134.3	10897.4
22.5°	9944.0	9919.1	9735.8	9381.8	9042.1	8899.8	9079.4	9118.6	9611.3	10360.2	11217.6
25°	10979.3	10924.1	10682.2	10207.2	9707.4	9340.9	9403.2	9440.5	9895.9	10612.8	11511.2
27.5°	12071.5	12016.4	11708.6	11134.0	10468.7	9897.7	9849.7	9881.7	10219.7	10799.6	11728.2
30°	13213.5	13154.8	12873.8	12229.8	11276.3	10474.1	10265.9	10278.4	10447.4	10901.0	11906.1
32.5°	14360.9	14305.8	13990.9	13243.8	12153.3	11093.1	10566.6	10550.6	10584.4	11005.9	12107.1
35°	15524.3	15545.7	15177.4	14350.2	13124.6	11781.5	10922.3	10888.5	10813.8	11221.2	12391.7
37.5°	16769.5	16755.3	16278.6	15414.0	14140.3	12528.7	11432.9	11427.5	11169.6	11628.6	12838.2
40°	17602.0	17610.9	17321.0	16502.7	15166.8	13355.9	12087.5	12075.1	11737.1	12238.7	13423.4
42.5°	17927.6	17986.3	18061.0	17541.6	16241.2	14314.7	12868.4	12850.6	12528.7	13113.9	14111.9
45°	17950.7	18068.1	18530.6	18464.8	17329.9	15412.2	13866.4	13816.6	13585.3	14277.3	14933.7
47.5°	17751.5	17872.4	18640.9	19014.5	18302.9	16570.3	15033.3	14994.2	14795.0	15732.4	15823.2
50°	17315.6	17431.3	18413.2	19283.1	19103.4	17683.9	16378.2	16275.0	16168.3	17413.5	16840.7
52.5°	16499.1	16721.5	18109.0	19347.1	19581.9	18672.9	17792.4	17724.8	17783.5	19187.0	17860.0
55°	14565.5	14814.5	17324.5	19293.8	19935.9	19503.7	19206.6	19203.0	19507.2	21047.7	18954.0
57.5°	13482.2	13658.3	15727.1	19203.0	20355.8	20329.1	20606.6	20640.4	21232.7	23073.9	20099.6
60°	12870.2	13055.2	14917.7	18866.8	21006.8	21396.4	22035.0	22102.6	22986.7	25317.1	21478.2
62.5°	12313.4	12516.2	14416.1	18182.0	21773.5	22922.7	23746.3	23806.8	24843.9	27622.5	22810.6
65°	11361.7	11591.2	13681.4	17731.9	22470.8	24913.3	25921.9	25962.8	26976.8	30038.2	23829.9
67.5°	10016.9	10226.8	12295.6	16737.5	22986.7	27330.8	28814.3	28837.5	29091.8	31744.2	24351.1
70°	8446.1	8526.2	10321.1	14684.7	22376.6	29591.7	31984.3	31989.6	31020.2	32836.4	24265.7
72.5°	5934.4	6122.9	7492.7	11116.2	19229.7	29316.0	33629.8	33690.3	31916.7	32284.9	22326.8
75°	3639.6	3838.8	4699.8	6736.6	12199.6	23056.1	31071.7	31491.6	30235.7	28785.9	18238.9
77.5°	2433.5	2508.2	3066.8	3927.8	5527.0	13265.1	23888.6	24678.4	25117.8	20992.6	11664.1
80°	1357.3	1499.6	2033.3	2440.6	2458.4	5270.8	14323.6	14508.6	13974.9	8359.0	3598.7
82.5°	718.7	796.9	1357.3	1433.8	1341.3	1764.7	5338.4	5343.8	4465.0	2241.4	1069.1
85°	556.8	622.6	930.4	875.2	684.9	782.7	1761.1	1857.2	1519.2	917.9	348.7
87.5°	277.5	345.1	631.5	555.0	268.6	224.1	629.7	672.4	599.5	359.3	126.3
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°	9289.3	9289.3	9289.3	9289.3	9289.3	9289.3	9289.3	9289.3	9289.3	9289.3	9289.3
2.5°	9312.5	9328.5	9348.0	9326.7	9319.6	9291.1	9243.1	9232.4	9207.5	9209.3	9223.5
5°	9394.3	9421.0	9410.3	9328.5	9230.6	9093.6	8951.3	8830.4	8750.3	8745.0	8739.7
7.5°	9550.8	9568.6	9485.0	9252.0	8978.0	8661.4	8362.5	8101.0	7942.7	7903.6	7894.7
10°	9796.3	9792.7	9563.3	9093.6	8547.5	7981.8	7501.5	7138.7	6927.0	6864.7	6848.7
12.5°	10070.3	10029.3	9590.0	8805.5	7939.2	7154.7	6546.3	6142.5	5921.9	5850.7	5833.0
15°	10353.1	10251.7	9524.1	8375.0	7192.0	6263.4	5624.8	5251.3	5132.1	5092.9	5085.8
17.5°	10616.4	10420.7	9335.6	7791.5	6339.9	5375.8	4877.7	4728.3	4756.7	4808.3	4810.1
20°	10874.3	10534.5	9033.2	7055.0	5441.6	4644.7	4475.7	4586.0	4721.2	4826.1	4840.3
22.5°	11128.7	10614.6	8643.6	6204.7	4637.5	4233.7	4352.9	4553.9	4708.7	4822.6	4842.1
25°	11342.2	10634.2	8106.4	5297.5	4079.0	4079.0	4294.2	4484.6	4637.5	4749.6	4769.2
27.5°	11420.4	10502.5	7348.6	4457.9	3797.9	4007.8	4212.4	4370.7	4500.6	4619.8	4641.1
30°	11450.7	10258.8	6473.4	3783.7	3682.3	3931.3	4102.1	4237.3	4360.0	4472.1	4491.7
32.5°	11456.0	9965.3	5544.8	3401.2	3602.2	3851.3	3965.1	4084.3	4216.0	4260.4	4267.5
35°	11489.8	9618.4	4566.4	3205.5	3527.5	3776.6	3867.3	3952.7	3739.2	3755.2	3769.5
37.5°	11587.6	9275.1	3748.1	3095.3	3479.5	3737.4	3845.9	3536.4	3369.2	3330.1	3324.7
40°	11770.9	8908.6	3141.5	3006.3	3461.7	3757.0	3709.0	3301.6	3013.4	2798.2	2766.2
42.5°	12025.2	8513.7	2753.7	2947.6	3474.2	3851.3	3518.6	3075.7	2597.2	2458.4	2440.6
45°	12311.6	8099.3	2543.8	2906.7	3516.9	3924.2	3479.5	2775.1	2403.3	2298.3	2289.4
47.5°	12589.2	7592.3	2435.3	2888.9	3575.6	3865.5	3314.1	2682.6	2310.8	2255.6	2261.0
50°	12907.6	7135.1	2369.5	2869.3	3627.1	3828.2	3127.3	2634.5	2275.2	2342.8	2413.9
52.5°	13176.2	6661.9	2310.8	2830.2	3646.7	3762.3	3079.2	2643.4	2275.2	2405.0	2472.6
55°	13494.6	6304.4	2243.2	2748.4	3609.4	3575.6	3045.4	2696.8	2301.9	2220.0	2227.2
57.5°	13905.5	6187.0	2168.5	2620.3	3484.8	3303.4	3029.4	2748.4	2285.9	2234.3	2252.1
60°	14474.8	6311.5	2138.2	2453.1	3290.9	3089.9	3031.2	2721.7	2173.8	2084.9	2086.6
62.5°	15017.3	6450.2	2136.4	2348.1	3052.6	2899.6	2990.3	2634.5	2116.9	2065.3	2084.9
65°	15195.2	6309.7	2051.1	2230.7	2784.0	2671.9	2915.6	2542.0	2074.2	1995.9	1992.3
67.5°	14956.8	5873.9	1878.5	2040.4	2476.2	2406.8	2817.8	2431.7	2006.6	1942.5	1931.9
70°	14248.9	4900.8	1665.0	1789.6	2125.8	2108.0	2663.0	2303.7	1915.9	1860.7	1814.5
72.5°	12343.7	3491.9	1403.5	1488.9	1730.9	1787.8	2449.5	2136.4	1787.8	1668.6	1597.4
75°	10137.9	2584.7	1152.7	1170.5	1314.6	1469.4	2156.0	1940.8	1636.6	1433.8	1378.6
77.5°	6208.3	1581.4	917.9	925.0	942.8	1172.3	1775.3	1722.0	1444.5	1195.4	1156.3
80°	2010.1	862.8	663.5	697.3	644.0	859.2	1373.3	1465.8	1239.9	999.7	957.0
82.5°	764.9	503.4	448.3	471.4	446.5	576.4	1001.5	1174.1	1015.7	821.8	668.9
85°	370.0	284.6	265.1	297.1	275.7	295.3	640.4	864.5	770.3	535.4	498.1
87.5°	131.6	126.3	101.4	137.0	117.4	105.0	195.7	435.8	508.8	368.2	329.1
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)