

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: P191538

Luminaire Tested: **GAN-AF-10-LED-U-T4FT-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-T4FT-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60631.3 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B4 - U0 - G5

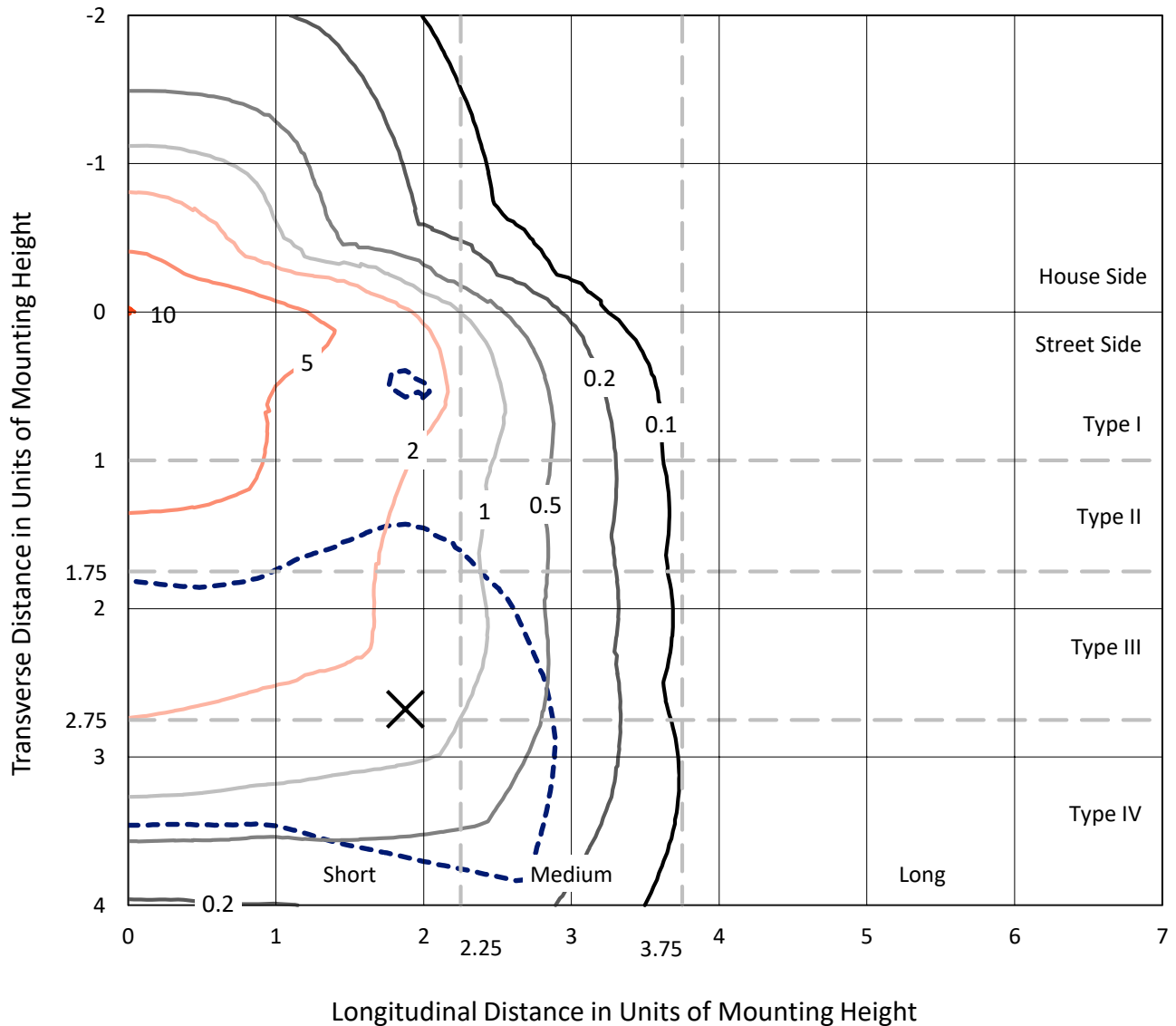
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

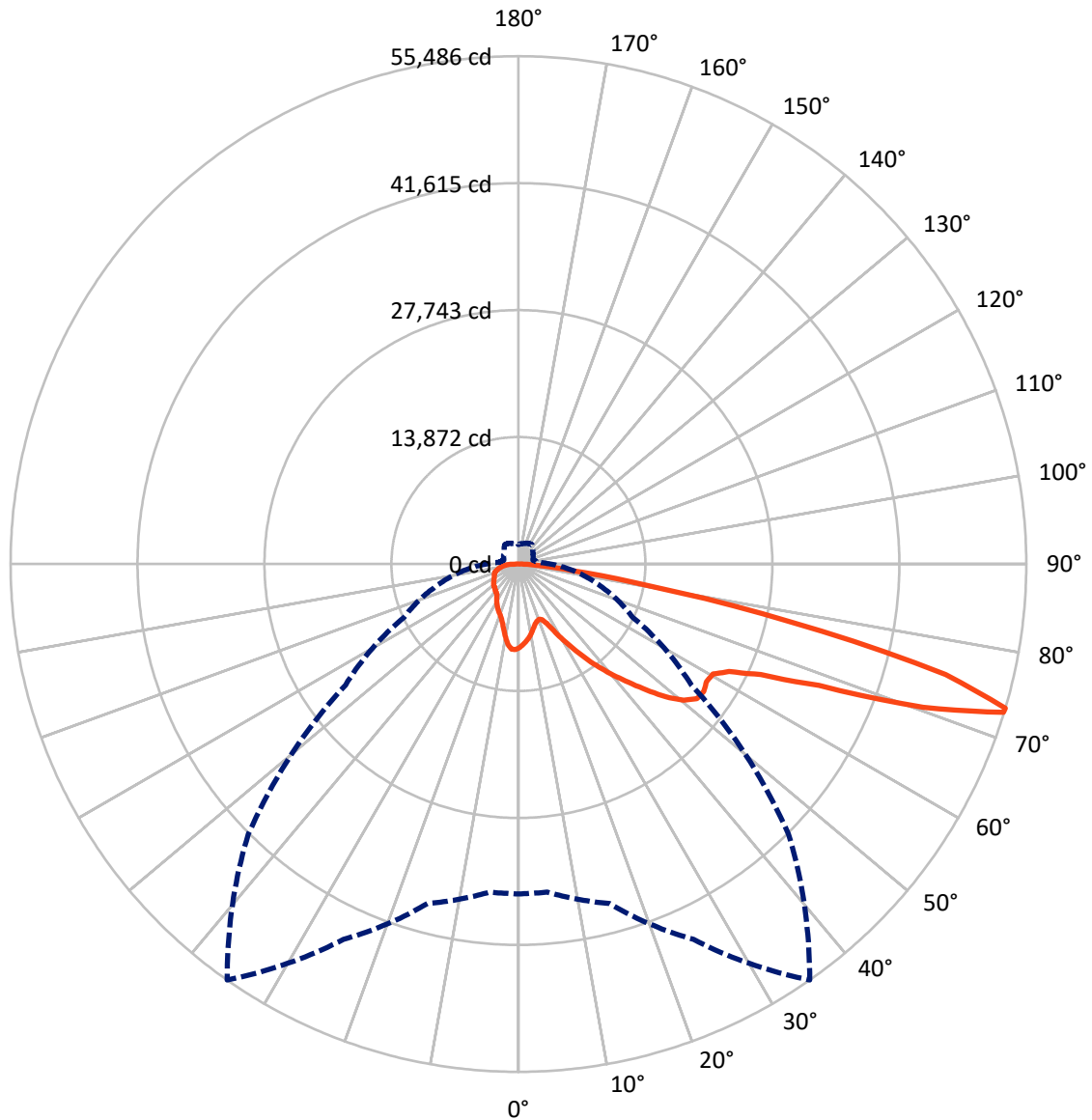
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11564.1	0.0	11564.1
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	49067.2	0.0	49067.2
	% Fixture	80.9	0.0	80.9
Total	Lumens	60631.3	0.0	60631.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	828.4	1.4
10°-20°	2067.7	3.4
20°-30°	3342.7	5.5
30°-40°	5605.2	9.2
40°-50°	8640.2	14.3
50°-60°	11591.7	19.1
60°-70°	15442.5	25.5
70°-80°	11777.9	19.4
80°-90°	1335.0	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°	60631.3	100.0
0°-180°	60631.3	100.0



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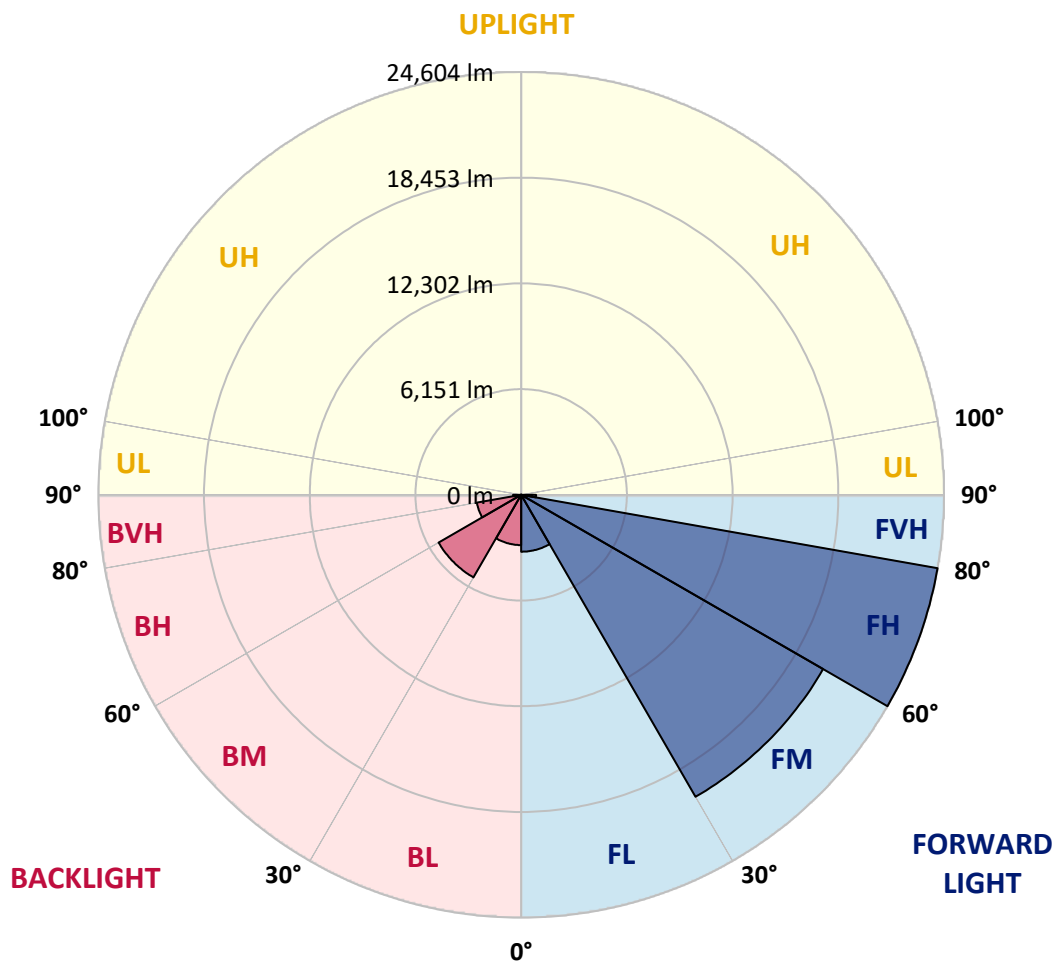
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3312.5	5.5			
FM	(30°-60°)	20287.6	33.5			
FH	(60°-80°)	24604.2	40.6			G5
FVH	(80°-90°)	862.9	1.4			G5
BL	(0°-30°)	2926.3	4.8	B4/5000		
BM	(30°-60°)	5549.5	9.2	B4/8500		
BH	(60°-80°)	2616.3	4.3	B4/5000		G4/5000
BVH	(80°-90°)	472.0	0.8			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9151.1	9151.1	9151.1	9151.1	9151.1	9151.1	9151.1	9151.1	9151.1	9151.1	9151.1
2.5°	8790.1	8807.6	8787.2	8813.4	8857.1	8903.7	8935.7	8982.3	9034.7	9107.4	9124.9
5°	8376.6	8402.8	8402.8	8449.5	8533.9	8609.6	8679.4	8755.1	8865.8	8991.0	9040.5
7.5°	7922.4	7937.0	7963.3	8033.1	8155.4	8263.1	8362.1	8484.4	8635.8	8801.8	8889.1
10°	7375.1	7395.4	7436.2	7535.3	7701.2	7849.7	7992.3	8161.2	8353.4	8560.1	8670.7
12.5°	6987.9	6982.0	6999.4	7072.3	7217.8	7398.4	7605.1	7820.6	8056.4	8298.1	8432.0
15°	6856.8	6824.8	6757.8	6740.3	6819.0	6999.4	7238.2	7503.1	7785.6	8076.8	8242.7
17.5°	6938.4	6883.0	6699.6	6565.6	6554.0	6690.8	6944.2	7241.2	7567.3	7922.4	8129.2
20°	7450.8	7319.7	6868.5	6556.9	6449.2	6516.2	6737.5	7051.9	7436.2	7907.9	8172.9
22.5°	8676.6	8484.4	7526.5	6947.1	6583.1	6501.6	6667.6	7002.4	7450.8	8088.4	8426.1
25°	10461.4	10187.7	8656.2	7919.6	7168.3	6734.5	6772.3	7116.0	7657.5	8507.7	8915.3
27.5°	11870.6	11692.9	10132.3	9291.0	8234.0	7363.4	7113.0	7401.3	8079.7	9194.8	9611.1
30°	12709.1	12601.4	11710.4	10845.7	9593.7	8365.0	7765.2	7937.0	8740.6	10147.0	10490.5
32.5°	13681.6	13617.5	13180.8	12385.9	11061.2	9681.1	8798.8	8737.7	9625.8	11291.1	11448.4
35°	14689.0	14668.6	14412.4	13841.8	12636.3	11416.3	10170.2	9756.8	10589.5	12479.1	12380.2
37.5°	15626.5	15591.6	15443.1	15111.2	14284.3	13279.7	11567.7	10802.1	11628.9	13614.7	13175.0
40°	17353.1	17079.4	16569.9	16319.5	15949.7	14849.2	12677.1	11777.4	12706.2	14697.8	13862.1
42.5°	19458.2	19012.8	18063.6	17720.0	17667.6	16086.6	13434.1	12723.7	13792.2	15772.2	14537.6
45°	21114.9	20695.6	19877.5	19443.6	19635.8	17207.6	14194.1	13734.0	14910.3	16898.9	15233.5
47.5°	22882.3	22224.2	21141.1	21272.2	21691.4	18267.3	14968.5	14820.0	16136.0	18159.6	16098.2
50°	22946.3	22442.6	21968.0	22751.2	23403.4	19242.7	15938.1	15958.4	17635.6	19746.4	17248.3
52.5°	21615.7	21508.0	22262.1	23493.7	24434.1	20014.3	17041.5	17134.7	19554.3	21569.1	18511.9
55°	21149.8	21027.6	21898.1	23234.6	24573.8	20651.9	18238.3	18407.1	21874.8	23490.7	19743.6
57.5°	22285.4	22014.6	22072.8	23112.2	24233.2	21350.7	19542.7	19883.3	24396.3	25170.7	20535.5
60°	25459.0	24879.6	23779.0	23752.8	24416.6	22398.9	21050.9	21467.2	27016.7	25974.4	20226.9
62.5°	29910.9	29331.5	27270.0	25927.8	25828.8	24128.4	22902.6	23013.2	28530.7	24885.4	18343.0
65°	34729.5	34211.3	31908.2	30012.8	29098.4	26993.4	25054.3	23703.3	28035.8	21889.4	15047.1
67.5°	40578.9	40022.8	38042.9	36293.1	35413.7	31617.1	26565.4	23042.4	24894.1	16957.1	10816.6
70°	44669.7	44102.0	43321.7	44739.6	46891.2	38287.5	26760.5	20355.0	18593.5	11270.8	6510.4
72.5°	39332.8	39067.8	40491.6	46463.2	55425.1	42334.6	24189.5	14820.0	10799.1	5983.3	3767.6
73°	36036.8	35978.6	38406.9	45254.9	55486.3	41711.5	23062.7	13774.7	9261.8	5293.3	3444.4
75°	16272.9	16741.7	22064.1	34566.4	48207.3	34371.4	16232.2	7902.1	5232.2	3656.9	2600.0
77.5°	3910.2	4073.3	6903.4	16415.6	30443.6	20483.1	7354.7	3907.4	3345.5	2582.5	1898.4
80°	1665.5	1720.7	2658.2	6064.9	14333.8	8248.6	3389.1	2617.5	2314.7	1802.2	1330.6
82.5°	925.9	984.1	1508.2	2751.4	5785.3	2812.6	2067.3	1822.7	1522.8	1086.1	864.7
85°	524.1	556.1	882.2	1537.3	2451.6	1129.7	1237.5	1211.2	859.0	559.0	425.1
87.5°	247.5	267.9	425.1	713.3	960.9	442.5	628.9	692.9	538.7	340.6	221.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9151.1	9151.1	9151.1	9151.1	9151.1	9151.1	9151.1	9151.1	9151.1	9151.1
2.5°	9145.3	9197.8	9258.8	9291.0	9320.0	9355.0	9389.9	9389.9	9395.7	9398.7
5°	9081.2	9189.0	9285.1	9325.8	9334.6	9334.6	9325.8	9279.3	9238.5	9256.0
7.5°	8947.3	9104.6	9186.1	9171.6	9060.9	8932.8	8825.1	8694.1	8627.1	8615.4
10°	8755.1	8935.7	8950.2	8804.6	8531.0	8257.3	8030.2	7808.9	7704.0	7677.9
12.5°	8542.7	8708.6	8615.4	8315.6	7875.9	7477.0	7188.7	6964.6	6865.5	6839.3
15°	8370.8	8484.4	8248.6	7776.9	7223.7	6801.5	6562.7	6396.8	6327.0	6306.5
17.5°	8280.6	8303.9	7872.9	7235.3	6647.1	6294.8	6146.4	6067.7	6041.5	6027.0
20°	8324.3	8161.2	7514.8	6731.6	6175.5	5928.0	5893.1	5872.7	5866.8	5858.1
22.5°	8542.7	8117.5	7185.8	6254.1	5762.1	5654.4	5683.4	5680.5	5674.7	5668.9
25°	8932.8	8155.4	6865.5	5799.9	5415.6	5392.3	5444.7	5444.7	5421.4	5421.4
27.5°	9448.2	8234.0	6507.4	5369.0	5101.1	5104.0	5144.8	5133.2	5107.0	5089.5
30°	10077.0	8283.4	6088.2	4981.8	4807.1	4795.4	4807.1	4757.5	4679.0	4673.1
32.5°	10720.5	8222.4	5601.9	4638.2	4495.5	4469.3	4460.6	4390.7	4300.4	4274.2
35°	11302.8	7998.1	5107.0	4364.5	4198.5	4140.3	4181.0	4157.8	4076.3	4055.9
37.5°	11727.9	7581.8	4661.5	4122.8	3985.9	3971.4	3997.6	4006.4	3910.2	3889.9
40°	12013.2	7016.9	4280.0	3919.0	3945.2	3889.9	3802.5	3741.4	3712.3	3703.6
42.5°	12243.3	6428.8	3959.7	3823.0	3953.9	3793.8	3604.6	3505.6	3557.9	3581.2
45°	12508.2	5855.3	3691.9	3703.6	3910.2	3683.1	3467.7	3371.6	3392.0	3397.8
47.5°	12872.2	5156.4	3403.7	3511.4	3764.7	3607.4	3383.3	3246.4	3150.4	3106.7
50°	13375.9	4329.5	3103.7	3295.9	3622.1	3552.2	3252.3	3106.7	2929.1	2888.3
52.5°	13725.2	3557.9	2856.3	3115.4	3493.9	3441.5	3147.4	2958.2	2771.9	2736.9
55°	13536.0	2955.3	2640.8	2914.5	3325.0	3304.6	3060.1	2806.8	2661.2	2632.1
57.5°	12589.8	2573.8	2474.8	2725.2	3118.4	3188.2	2943.6	2678.7	2573.8	2553.5
60°	10784.6	2335.1	2370.1	2597.2	2949.5	3071.7	2827.1	2608.8	2538.9	2524.3
62.5°	8367.9	2175.0	2291.4	2504.0	2818.4	2990.2	2763.1	2600.0	2573.8	2556.4
65°	5995.0	2046.8	2207.0	2410.8	2699.1	2914.5	2739.8	2588.4	2594.2	2579.7
67.5°	4073.3	1933.3	2105.1	2305.9	2582.5	2847.6	2707.8	2547.7	2620.4	2603.0
70°	2850.5	1822.7	1985.8	2172.0	2437.0	2754.4	2649.5	2486.5	2480.7	2410.8
72.5°	2224.5	1677.1	1822.7	1985.8	2250.7	2623.4	2533.1	2349.6	2253.6	2180.8
73°	2122.5	1642.1	1781.9	1944.9	2209.9	2591.3	2501.0	2311.8	2204.0	2137.1
75°	1755.7	1490.7	1618.8	1764.4	2035.2	2439.9	2343.8	2140.0	2003.1	1962.4
77.5°	1380.1	1275.3	1397.6	1528.6	1793.5	2218.7	2110.9	1915.8	1840.1	1805.2
80°	1021.9	1056.9	1164.6	1281.1	1554.8	1982.8	1886.7	1691.7	2029.4	1944.9
82.5°	719.1	800.7	899.7	1004.5	1304.4	1752.8	1636.3	1435.4	1484.9	1234.5
85°	425.1	524.1	617.2	707.5	940.4	1452.9	1351.0	1144.3	937.5	893.9
87.5°	247.5	291.1	317.3	410.5	646.4	1094.8	952.1	847.3	486.2	329.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)