

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: P191547

Luminaire Tested: **GAN-AF-09-LED-U-T4FT-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191547
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-09-LED-U-T4FT-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA 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: 60073.8 lumens
Efficiency: N/A
Efficacy: 104.5 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

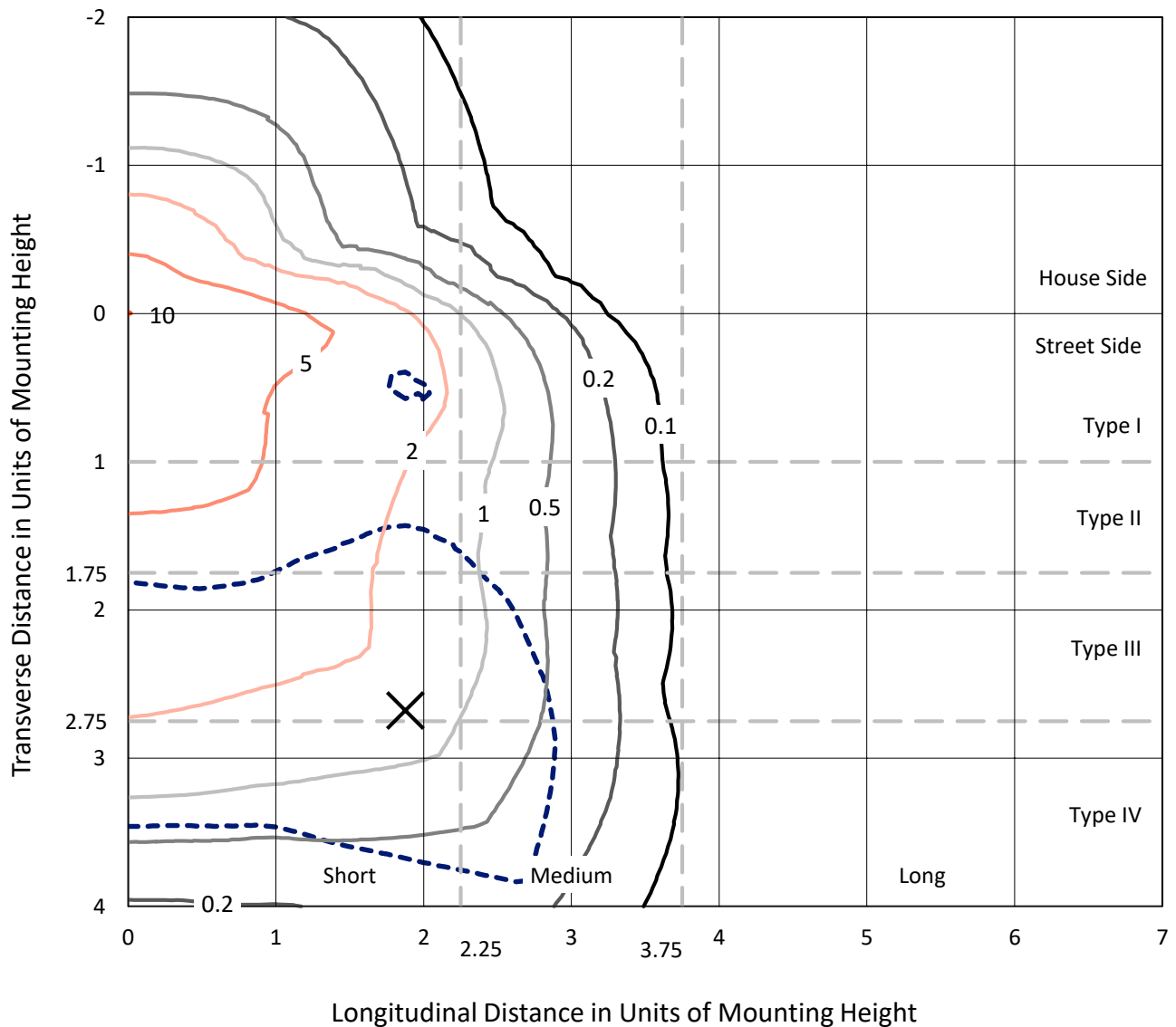
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

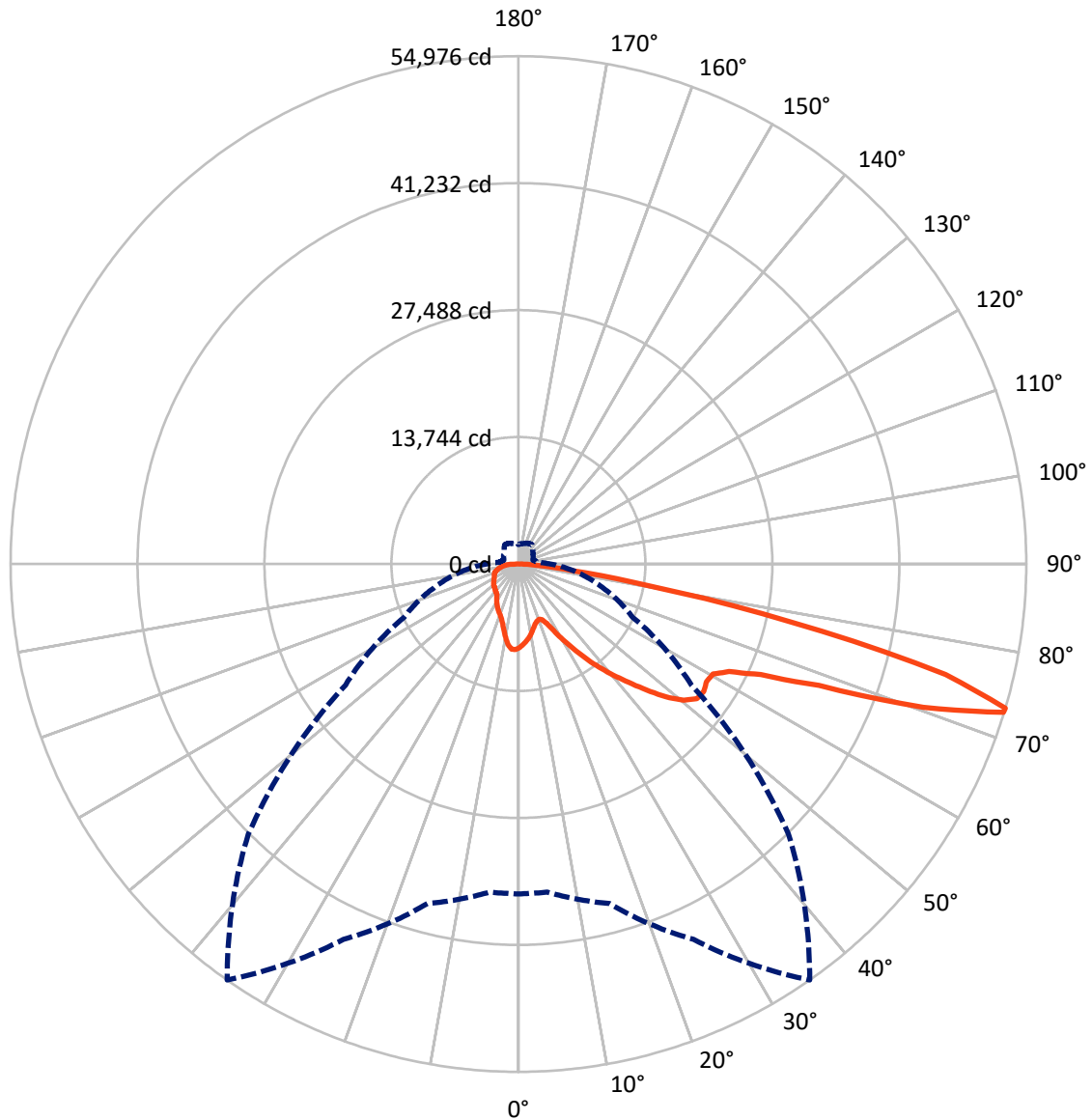
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 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	11457.7	0.0	11457.7
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	48616.1	0.0	48616.1
	% Fixture	80.9	0.0	80.9
Total	Lumens	60073.8	0.0	60073.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	820.8	1.4
10°-20°	2048.6	3.4
20°-30°	3311.9	5.5
30°-40°	5553.7	9.2
40°-50°	8560.7	14.3
50°-60°	11485.1	19.1
60°-70°	15300.5	25.5
70°-80°	11669.6	19.4
80°-90°	1322.7	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°	60073.8	100.0
0°-180°	60073.8	100.0

Coefficient of Utilization



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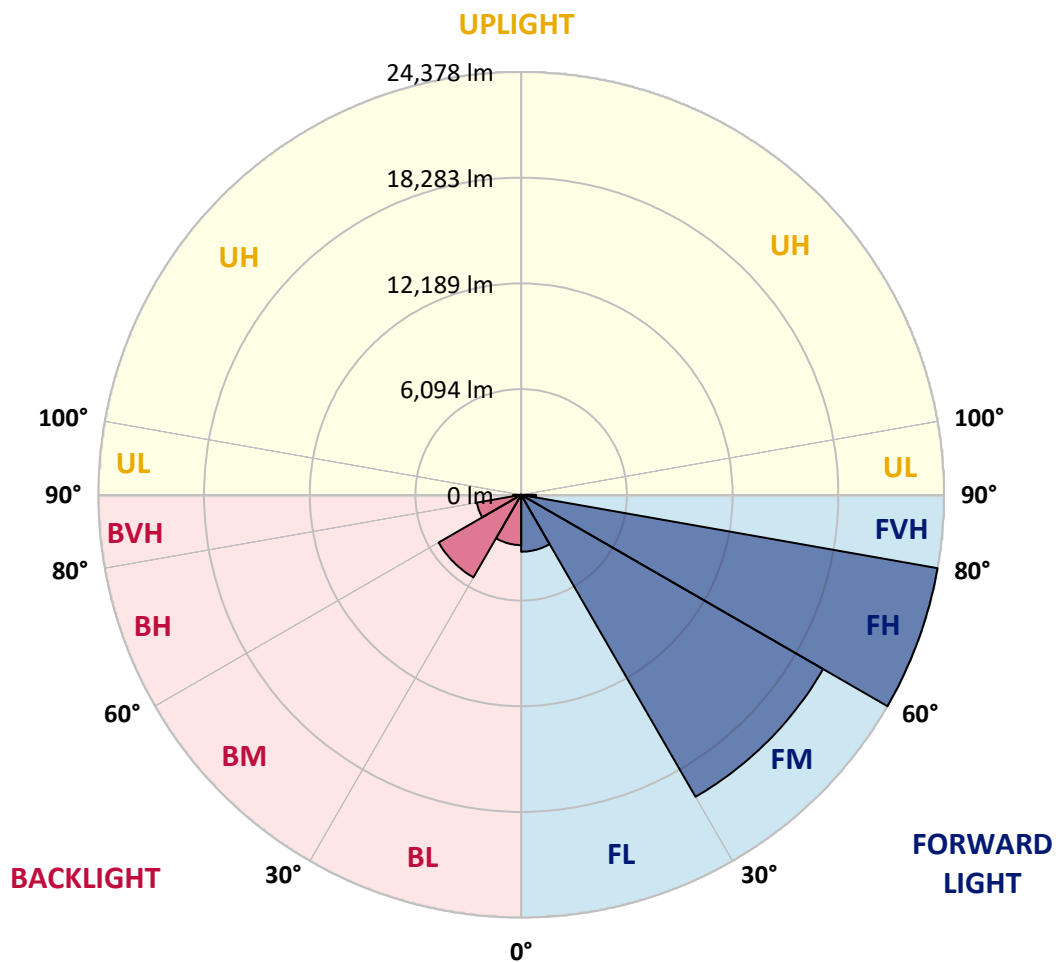
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3282.1	5.5			
FM	(30°-60°)	20101.1	33.5			
FH	(60°-80°)	24377.9	40.6			G5
FVH	(80°-90°)	855.0	1.4			G5
BL	(0°-30°)	2899.4	4.8	B4/5000		
BM	(30°-60°)	5498.4	9.2	B4/8500		
BH	(60°-80°)	2592.2	4.3	B4/5000		G4/5000
BVH	(80°-90°)	467.7	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°	9067.0	9067.0	9067.0	9067.0	9067.0	9067.0	9067.0	9067.0	9067.0	9067.0	9067.0
2.5°	8709.3	8726.6	8706.4	8732.3	8775.6	8821.8	8853.5	8899.7	8951.6	9023.8	9041.0
5°	8299.6	8325.6	8325.6	8371.7	8455.4	8530.4	8599.6	8674.6	8784.3	8908.4	8957.4
7.5°	7849.6	7864.0	7890.0	7959.3	8080.4	8187.1	8285.2	8406.4	8556.4	8720.9	8807.4
10°	7307.2	7327.5	7367.8	7465.9	7630.4	7777.5	7918.9	8086.1	8276.6	8481.4	8591.0
12.5°	6923.5	6917.8	6935.1	7007.2	7151.4	7330.4	7535.2	7748.6	7982.3	8221.8	8354.4
15°	6793.7	6762.0	6695.7	6678.3	6756.3	6935.1	7171.7	7434.2	7714.1	8002.5	8166.9
17.5°	6874.5	6819.7	6638.0	6505.3	6493.7	6629.3	6880.3	7174.6	7497.6	7849.6	8054.4
20°	7382.2	7252.4	6805.3	6496.7	6389.9	6456.3	6675.5	6987.1	7367.8	7835.2	8097.7
22.5°	8596.8	8406.4	7457.3	6883.2	6522.5	6441.8	6606.2	6938.0	7382.2	8014.0	8348.7
25°	10365.2	10094.0	8576.6	7846.7	7102.4	6672.6	6710.1	7050.5	7587.1	8429.4	8833.3
27.5°	11761.5	11585.4	10039.2	9205.4	8158.2	7295.7	7047.6	7333.2	8005.4	9110.3	9522.9
30°	12592.2	12485.5	11602.7	10746.0	9505.5	8288.2	7693.8	7864.0	8660.2	10053.7	10394.0
32.5°	13555.8	13492.3	13059.6	12272.0	10959.5	9592.0	8717.9	8657.3	9537.3	11187.4	11343.1
35°	14553.9	14533.8	14279.9	13714.5	12520.1	11311.4	10076.7	9667.1	10492.1	12364.4	12266.3
37.5°	15482.9	15448.2	15301.1	14972.2	14152.9	13157.7	11461.4	10702.7	11522.0	13489.4	13053.9
40°	17193.6	16922.4	16417.5	16169.5	15803.1	14712.6	12560.5	11669.1	12589.4	14562.6	13734.6
42.5°	19279.2	18837.9	17897.4	17557.0	17505.1	15938.7	13310.5	12606.6	13665.4	15627.1	14404.0
45°	20920.8	20505.4	19694.7	19264.8	19455.3	17049.3	14063.5	13607.7	14773.1	16743.6	15093.4
47.5°	22671.9	22019.8	20946.8	21076.6	21492.0	18099.4	14830.8	14683.7	15987.7	17992.7	15950.2
50°	22735.3	22236.2	21766.0	22542.1	23188.2	19065.8	15791.5	15811.8	17473.4	19564.9	17089.7
52.5°	21416.9	21310.2	22057.4	23277.7	24209.5	19830.3	16884.9	16977.2	19374.5	21370.8	18341.7
55°	20955.4	20834.2	21696.8	23020.9	24348.0	20462.1	18070.5	18237.9	21673.7	23274.8	19562.0
57.5°	22080.5	21812.2	21869.9	22899.8	24010.4	21154.4	19362.9	19700.5	24171.9	24939.3	20346.7
60°	25224.9	24650.9	23560.4	23534.4	24192.2	22192.9	20857.3	21269.8	26768.3	25735.5	20040.8
62.5°	29635.8	29061.7	27019.3	25689.4	25591.3	23906.6	22692.0	22801.7	28268.4	24656.6	18174.4
65°	34410.2	33896.7	31614.8	29736.8	28830.9	26745.3	24823.9	23485.3	27778.0	21688.1	14908.8
67.5°	40205.8	39654.8	37693.1	35959.4	35088.1	31326.3	26321.1	22830.5	24665.3	16801.3	10717.1
70°	44259.0	43696.5	42923.3	44328.2	46460.1	37935.4	26514.4	20167.8	18422.5	11167.1	6450.4
72.5°	38971.1	38708.6	40119.2	46036.1	54915.5	41945.4	23967.1	14683.7	10699.9	5928.3	3733.0
73°	35705.5	35647.8	38053.8	44838.8	54976.1	41328.0	22850.7	13648.1	9176.6	5244.6	3412.8
75°	16123.2	16587.8	21861.2	34248.6	47764.0	34055.4	16082.9	7829.5	5184.0	3623.3	2576.2
77.5°	3874.3	4035.8	6840.0	16264.6	30163.8	20294.7	7287.1	3871.5	3314.7	2558.8	1880.9
80°	1650.1	1705.0	2633.9	6009.1	14202.0	8172.7	3357.9	2593.5	2293.5	1785.7	1318.4
82.5°	917.4	975.1	1494.3	2726.2	5732.1	2786.7	2048.3	1805.9	1508.8	1076.0	856.8
85°	519.2	551.0	874.1	1523.2	2429.0	1119.3	1226.0	1200.1	851.0	553.9	421.1
87.5°	245.2	265.4	421.1	706.8	952.0	438.5	623.1	686.6	533.7	337.6	219.2
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°	9067.0	9067.0	9067.0	9067.0	9067.0	9067.0	9067.0	9067.0	9067.0	9067.0
2.5°	9061.2	9113.2	9173.7	9205.4	9234.3	9269.0	9303.5	9303.5	9309.4	9312.2
5°	8997.8	9104.5	9199.7	9240.1	9248.7	9248.7	9240.1	9194.0	9153.6	9170.9
7.5°	8865.1	9020.9	9101.6	9087.2	8977.6	8850.7	8743.9	8614.1	8547.8	8536.2
10°	8674.6	8853.5	8868.0	8723.7	8452.5	8181.4	7956.3	7737.1	7633.3	7607.3
12.5°	8464.1	8628.5	8536.2	8239.1	7803.5	7408.2	7122.6	6900.5	6802.4	6776.4
15°	8293.9	8406.4	8172.7	7705.4	7157.3	6739.0	6502.4	6338.0	6268.7	6248.5
17.5°	8204.5	8227.5	7800.6	7168.8	6586.1	6237.0	6089.8	6012.0	5986.0	5971.6
20°	8247.7	8086.1	7445.8	6669.7	6118.7	5873.5	5838.9	5818.6	5812.9	5804.2
22.5°	8464.1	8042.8	7119.7	6196.6	5709.1	5602.3	5631.1	5628.3	5622.5	5616.7
25°	8850.7	8080.4	6802.4	5746.5	5365.8	5342.7	5394.6	5394.6	5371.5	5371.5
27.5°	9361.2	8158.2	6447.6	5319.7	5054.2	5057.1	5097.5	5085.9	5060.0	5042.6
30°	9984.4	8207.3	6032.1	4935.9	4762.9	4751.3	4762.9	4713.8	4635.9	4630.2
32.5°	10621.9	8146.8	5550.4	4595.5	4454.1	4428.3	4419.6	4350.3	4260.9	4234.9
35°	11198.9	7924.6	5060.0	4324.3	4159.9	4102.2	4142.6	4119.5	4038.7	4018.6
37.5°	11620.1	7512.0	4618.6	4084.9	3949.3	3934.9	3960.9	3969.6	3874.3	3854.2
40°	11902.7	6952.4	4240.6	3883.0	3908.9	3854.2	3767.6	3707.0	3678.1	3669.5
42.5°	12130.7	6369.7	3923.3	3787.8	3917.6	3758.9	3571.4	3473.3	3525.3	3548.3
45°	12393.3	5801.4	3658.0	3669.5	3874.3	3649.3	3435.8	3340.7	3360.8	3366.6
47.5°	12753.8	5109.0	3372.4	3479.1	3730.1	3574.3	3352.2	3216.6	3121.3	3078.1
50°	13252.8	4289.7	3075.2	3265.7	3588.7	3519.5	3222.4	3078.1	2902.1	2861.7
52.5°	13599.1	3525.3	2830.0	3086.8	3461.8	3409.9	3118.5	2931.0	2746.3	2711.7
55°	13411.5	2928.1	2616.5	2887.7	3294.5	3274.3	3031.9	2781.0	2636.8	2607.9
57.5°	12474.0	2550.2	2452.1	2700.2	3089.6	3158.9	2916.5	2654.0	2550.2	2530.0
60°	10685.4	2313.6	2348.3	2573.2	2922.4	3043.5	2801.1	2584.8	2515.5	2501.1
62.5°	8291.0	2154.9	2270.3	2481.0	2792.6	2962.7	2737.7	2576.2	2550.2	2532.8
65°	5939.9	2028.0	2186.7	2388.6	2674.2	2887.7	2714.6	2564.6	2570.4	2555.9
67.5°	4035.8	1915.5	2085.7	2284.8	2558.8	2821.4	2682.9	2524.2	2596.4	2579.1
70°	2824.3	1805.9	1967.4	2152.1	2414.6	2729.0	2625.2	2463.7	2457.8	2388.6
72.5°	2204.0	1661.7	1805.9	1967.4	2229.9	2599.2	2509.8	2328.0	2232.9	2160.8
73°	2103.1	1627.0	1765.5	1927.0	2189.6	2567.5	2478.1	2290.6	2183.8	2117.5
75°	1739.5	1477.0	1604.0	1748.2	2016.5	2417.4	2322.3	2120.4	1984.7	1944.3
77.5°	1367.4	1263.5	1384.7	1514.6	1777.1	2198.2	2091.5	1898.2	1823.2	1788.6
80°	1012.6	1047.2	1153.9	1269.3	1540.5	1964.6	1869.3	1676.1	2010.7	1927.0
82.5°	712.6	793.3	891.4	995.2	1292.4	1736.7	1621.3	1422.2	1471.3	1223.1
85°	421.1	519.2	611.6	701.0	931.8	1439.5	1338.5	1133.7	928.9	885.7
87.5°	245.2	288.5	314.5	406.7	640.5	1084.7	943.4	839.4	481.8	326.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)