

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: P268956

Luminaire Tested: **GAN-AF-10-LED-U-T4FT-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268956
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-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 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: 56490.1 lumens
Efficiency: N/A
Efficacy: 88.3 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): 640
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

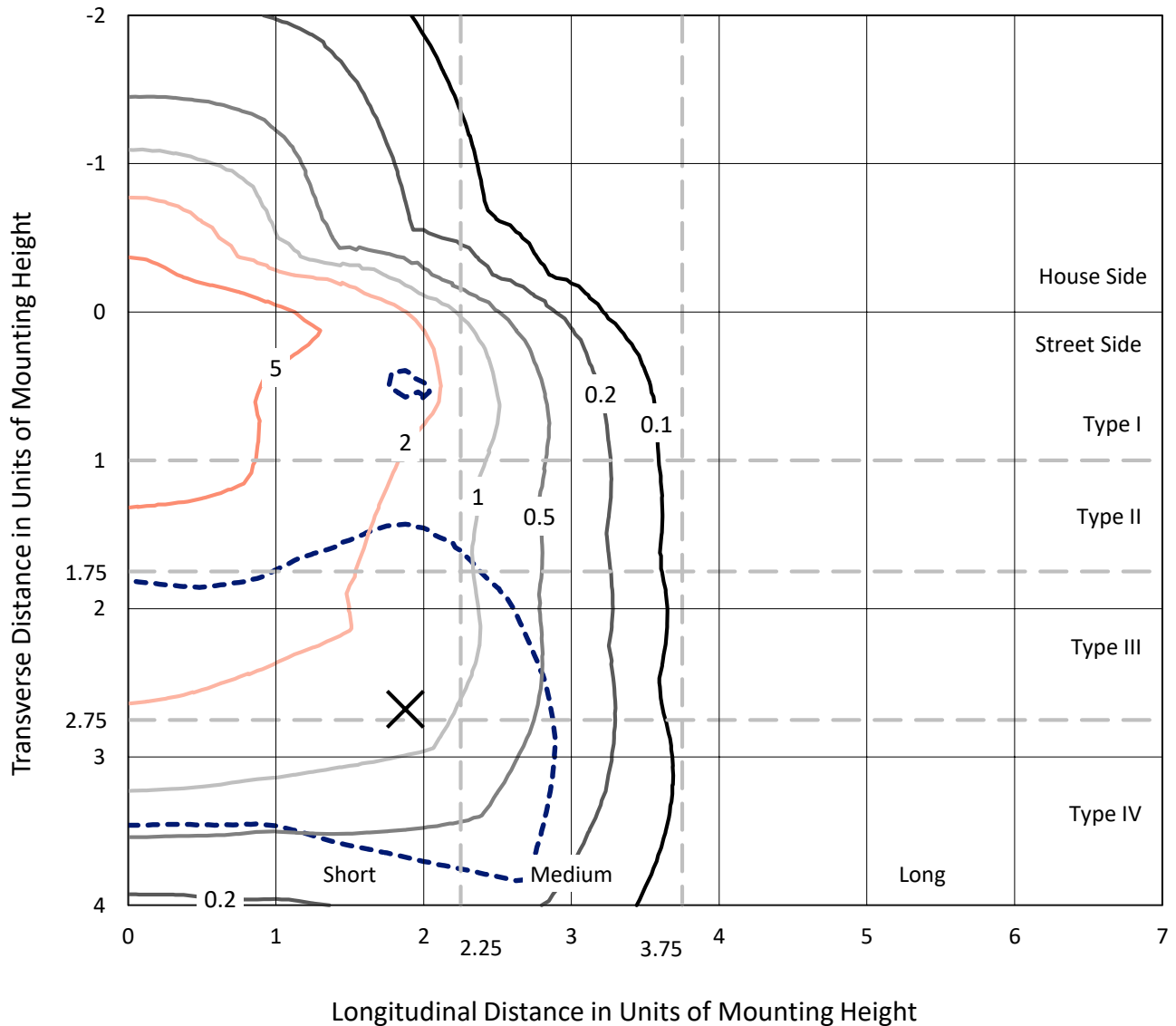


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

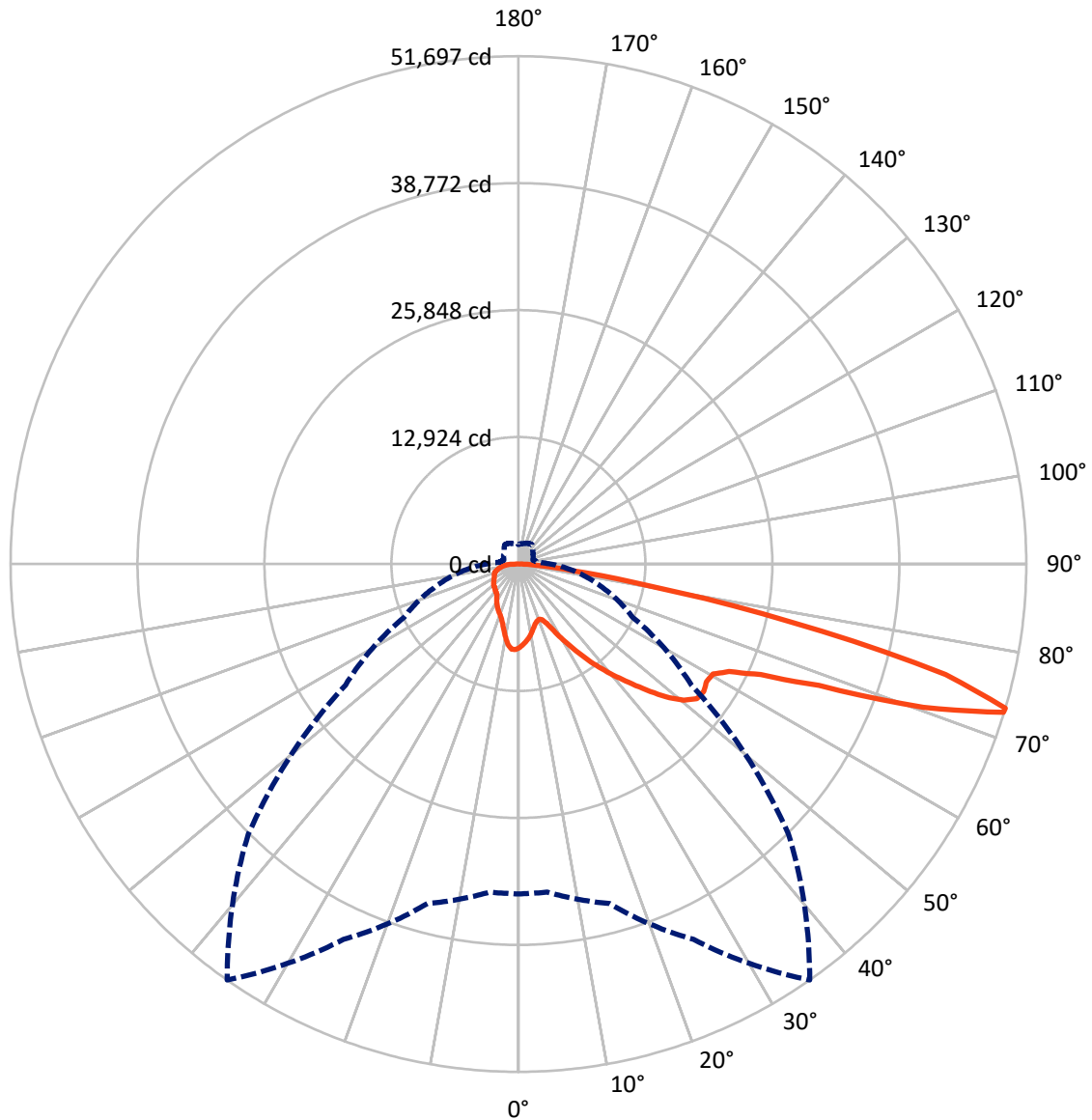


Based on 30 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - Non-Cutoff

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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	10774.2	0.0	10774.2
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	45715.9	0.0	45715.9
	% Fixture	80.9	0.0	80.9
Total	Lumens	56490.1	0.0	56490.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	771.9	1.4
10°-20°	1926.4	3.4
20°-30°	3114.4	5.5
30°-40°	5222.4	9.2
40°-50°	8050.0	14.3
50°-60°	10800.0	19.1
60°-70°	14387.8	25.5
70°-80°	10973.5	19.4
80°-90°	1243.8	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°	56490.1	100.0
0°-180°	56490.1	100.0

Coefficient of Utilization



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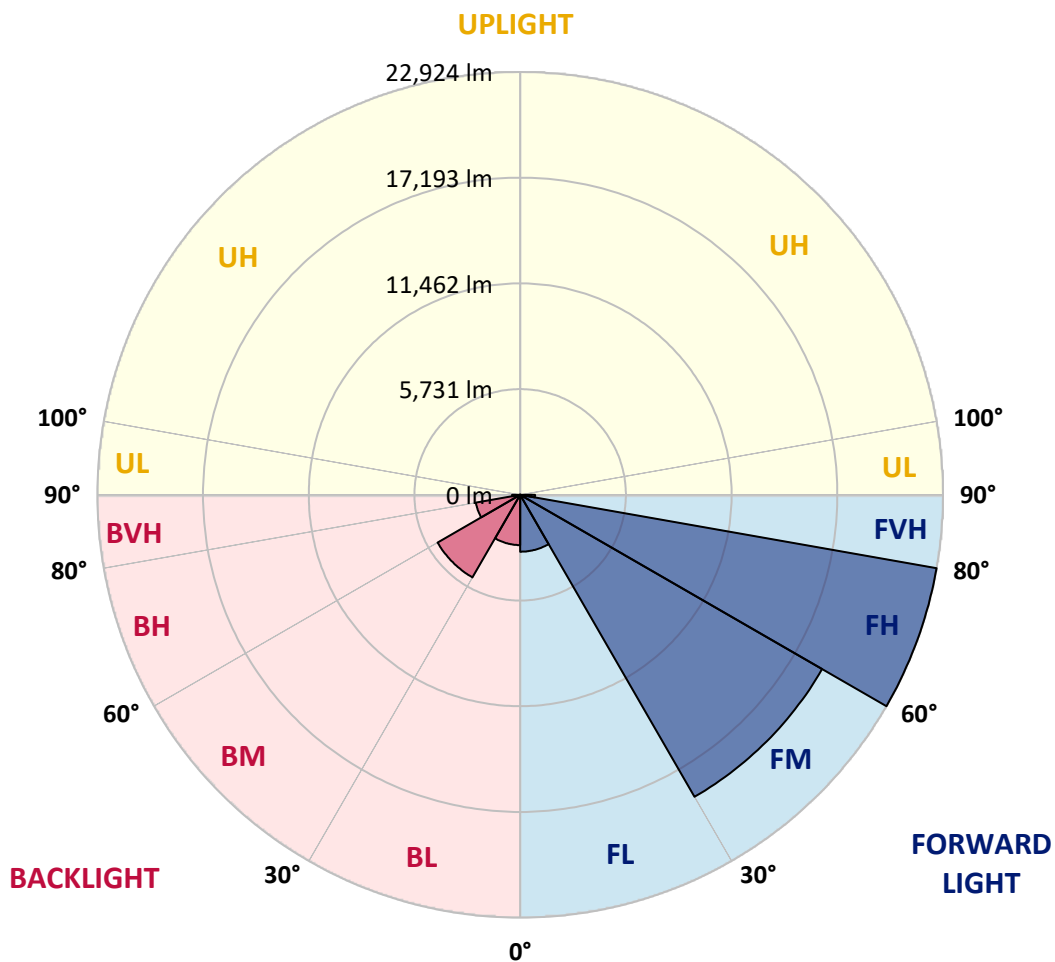
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3086.3	5.5			
FM	(30°-60°)	18902.0	33.5			
FH	(60°-80°)	22923.7	40.6			G5
FVH	(80°-90°)	804.0	1.4			G5
BL	(0°-30°)	2726.4	4.8	B4/5000		
BM	(30°-60°)	5170.4	9.2	B4/8500		
BH	(60°-80°)	2437.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	439.8	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°	8526.2	8526.2	8526.2	8526.2	8526.2	8526.2	8526.2	8526.2	8526.2	8526.2	8526.2
2.5°	8189.8	8205.9	8187.1	8211.4	8252.1	8295.6	8325.4	8368.8	8417.6	8485.4	8501.6
5°	7804.6	7829.0	7829.0	7872.3	7951.0	8021.5	8086.6	8157.1	8260.3	8377.0	8423.0
7.5°	7381.4	7394.8	7419.3	7484.4	7598.4	7698.7	7791.0	7904.9	8045.9	8200.5	8282.0
10°	6871.3	6890.3	6928.3	7020.6	7175.2	7313.6	7446.4	7603.9	7782.8	7975.4	8078.5
12.5°	6510.6	6505.2	6521.4	6589.2	6724.8	6893.1	7085.7	7286.4	7506.1	7731.4	7856.0
15°	6388.4	6358.7	6296.2	6280.1	6353.3	6521.4	6743.8	6990.7	7253.9	7525.1	7679.7
17.5°	6464.5	6412.9	6242.1	6117.2	6106.4	6233.9	6469.9	6746.6	7050.3	7381.4	7574.0
20°	6941.9	6819.8	6399.3	6109.1	6008.8	6071.0	6277.3	6570.3	6928.3	7367.8	7614.7
22.5°	8083.9	7904.9	7012.3	6472.6	6133.4	6057.5	6212.1	6524.1	6941.9	7536.1	7850.6
25°	9746.9	9491.9	8065.0	7378.7	6678.8	6274.5	6309.9	6629.9	7134.5	7926.6	8306.4
27.5°	11059.8	10894.4	9440.3	8656.3	7671.6	6860.4	6627.2	6895.7	7527.8	8566.7	8954.8
30°	11841.1	11740.7	10910.6	10104.9	8938.5	7793.6	7234.9	7394.8	8143.7	9453.9	9774.0
32.5°	12747.0	12687.4	12280.5	11539.9	10305.6	9019.8	8197.9	8140.9	8968.3	10520.1	10666.5
35°	13685.8	13666.8	13428.0	12896.3	11773.2	10636.7	9475.6	9090.4	9866.3	11626.8	11534.5
37.5°	14559.2	14526.8	14388.3	14079.0	13308.7	12372.7	10777.7	10064.3	10834.6	12684.7	12275.1
40°	16167.9	15912.8	15438.1	15204.8	14860.3	13834.9	11811.3	10972.9	11838.4	13693.9	12915.3
42.5°	18129.2	17714.1	16829.7	16509.7	16460.8	14987.9	12516.5	11854.7	12850.3	14694.8	13544.6
45°	19672.7	19282.1	18519.8	18115.6	18294.7	16032.2	13224.6	12795.9	13891.8	15744.8	14193.0
47.5°	21319.4	20706.3	19697.1	19819.2	20209.9	17019.6	13946.1	13807.8	15033.9	16919.2	14998.7
50°	21379.0	20909.8	20467.5	21197.2	21805.0	17928.5	14849.5	14868.4	16431.0	18397.7	16070.1
52.5°	20139.3	20038.9	20741.5	21889.0	22765.2	18647.3	15877.6	15964.4	18218.7	20096.0	17247.5
55°	19705.3	19591.3	20402.5	21647.6	22895.6	19241.4	16992.6	17149.9	20380.7	21886.3	18395.0
57.5°	20763.2	20511.0	20565.2	21533.7	22578.1	19892.4	18207.8	18525.2	22730.1	23451.6	19132.9
60°	23720.1	23180.4	22154.9	22130.5	22748.9	20869.1	19613.1	20001.0	25171.4	24200.2	18845.4
62.5°	27867.8	27328.1	25407.4	24157.0	24064.7	22480.4	21338.3	21441.5	26582.0	23185.8	17090.3
65°	32357.5	31874.6	29728.9	27962.8	27111.0	25149.8	23343.0	22084.3	26120.8	20394.3	14019.4
67.5°	37807.3	37289.3	35444.6	33814.2	32994.9	29457.6	24751.0	21468.6	23193.9	15798.9	10077.7
70°	41618.7	41089.7	40362.7	41683.8	43688.6	35672.5	24932.7	18964.7	17323.5	10500.9	6065.6
72.5°	36646.3	36399.4	37725.9	43289.9	51639.5	39443.0	22537.3	13807.8	10061.6	5574.6	3510.2
73°	33575.5	33521.2	35783.7	42163.9	51696.5	38862.7	21487.5	12833.9	8629.2	4931.8	3209.1
75°	15161.5	15598.2	20557.2	32205.6	44914.7	32023.8	15123.4	7362.4	4874.8	3407.2	2422.5
77.5°	3643.2	3795.1	6431.9	15294.5	28364.3	19084.0	6852.5	3640.6	3116.8	2406.2	1768.8
80°	1551.7	1603.2	2476.7	5650.6	13354.8	7685.2	3157.6	2438.8	2156.7	1679.2	1239.8
82.5°	862.6	916.9	1405.2	2563.6	5390.2	2620.4	1926.1	1698.2	1418.8	1011.9	805.7
85°	488.3	518.1	821.9	1432.3	2284.1	1052.5	1153.0	1128.5	800.3	520.8	396.1
87.5°	230.5	249.5	396.1	664.7	895.3	412.3	586.0	645.6	501.9	317.5	206.3
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°	8526.2	8526.2	8526.2	8526.2	8526.2	8526.2	8526.2	8526.2	8526.2	8526.2
2.5°	8520.8	8569.6	8626.6	8656.3	8683.5	8716.1	8748.6	8748.6	8754.1	8756.7
5°	8461.0	8561.3	8650.9	8688.9	8697.0	8697.0	8688.9	8645.5	8607.5	8623.8
7.5°	8336.2	8482.8	8558.7	8545.0	8442.0	8322.6	8222.2	8100.2	8037.9	8027.0
10°	8157.1	8325.4	8339.0	8203.3	7948.4	7693.4	7481.8	7275.6	7177.8	7153.5
12.5°	7959.2	8113.9	8027.0	7747.5	7338.0	6966.3	6697.8	6488.8	6396.7	6372.1
15°	7799.2	7904.9	7685.2	7245.6	6730.3	6337.0	6114.6	5959.9	5894.8	5875.8
17.5°	7715.1	7736.7	7335.2	6741.2	6193.2	5864.9	5726.5	5653.4	5628.9	5615.3
20°	7755.6	7603.9	7001.6	6271.8	5753.7	5523.0	5490.6	5471.5	5466.1	5458.0
22.5°	7959.2	7563.1	6695.0	5826.9	5368.5	5268.1	5295.2	5292.5	5287.2	5281.7
25°	8322.6	7598.4	6396.7	5403.8	5045.7	5024.0	5072.8	5072.8	5051.1	5051.1
27.5°	8802.9	7671.6	6063.0	5002.3	4752.8	4755.4	4793.4	4782.5	4758.1	4741.9
30°	9388.7	7717.7	5672.3	4641.5	4478.7	4467.9	4478.7	4432.5	4359.4	4353.9
32.5°	9988.3	7660.7	5219.3	4321.3	4188.4	4164.1	4155.9	4090.8	4006.7	3982.2
35°	10530.8	7451.9	4758.1	4066.4	3911.8	3857.5	3895.5	3873.9	3797.9	3778.8
37.5°	10927.0	7063.9	4343.0	3841.2	3713.8	3700.2	3724.6	3732.6	3643.2	3624.2
40°	11192.7	6537.7	3987.8	3651.3	3675.8	3624.2	3542.8	3485.9	3458.7	3450.6
42.5°	11407.0	5989.7	3689.2	3561.8	3683.9	3534.7	3358.4	3266.1	3314.9	3336.7
45°	11653.9	5455.2	3439.7	3450.6	3643.2	3431.6	3230.8	3141.4	3160.3	3165.7
47.5°	11993.0	4804.2	3171.1	3271.5	3507.5	3361.1	3152.2	3024.8	2935.2	2894.5
50°	12462.2	4033.7	2891.7	3070.9	3374.7	3309.5	3030.2	2894.5	2729.1	2691.1
52.5°	12787.8	3314.9	2661.1	2902.7	3255.3	3206.4	2932.4	2756.1	2582.4	2550.0
55°	12611.5	2753.5	2460.5	2715.4	3098.0	3078.9	2851.1	2615.1	2479.4	2452.4
57.5°	11729.9	2398.0	2305.8	2539.1	2905.4	2970.4	2742.5	2495.8	2398.0	2379.2
60°	10047.9	2175.7	2208.2	2419.8	2747.9	2861.9	2634.1	2430.6	2365.4	2351.9
62.5°	7796.4	2026.3	2134.9	2333.0	2625.9	2786.0	2574.5	2422.5	2398.0	2381.8
65°	5585.5	1907.0	2056.2	2246.1	2514.7	2715.4	2552.7	2411.6	2417.0	2403.4
67.5°	3795.1	1801.2	1961.3	2148.4	2406.2	2653.1	2522.8	2373.6	2441.5	2425.2
70°	2655.7	1698.2	1850.1	2023.7	2270.6	2566.3	2468.6	2316.6	2311.2	2246.1
72.5°	2072.5	1562.5	1698.2	1850.1	2097.0	2444.2	2360.0	2189.2	2099.7	2031.8
73°	1977.6	1530.0	1660.2	1812.2	2058.9	2414.4	2330.3	2153.9	2053.5	1991.2
75°	1635.8	1388.9	1508.3	1643.9	1896.2	2273.3	2183.8	1993.9	1866.4	1828.4
77.5°	1285.8	1188.2	1302.2	1424.3	1671.0	2067.1	1966.7	1785.0	1714.4	1681.8
80°	952.2	984.7	1085.2	1193.6	1448.5	1847.4	1757.9	1576.0	1890.8	1812.2
82.5°	670.0	746.0	838.3	935.9	1215.2	1633.1	1524.6	1337.3	1383.5	1150.2
85°	396.1	488.3	575.2	659.1	876.1	1353.7	1258.7	1066.1	873.5	832.8
87.5°	230.5	271.3	295.7	382.5	602.3	1019.9	887.0	789.4	453.0	306.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)