

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: P267116

Luminaire Tested: **GAN-AF-07-LED-U-T4FT-7027-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P267116
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-07-LED-U-T4FT-7027-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 36799.7 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 391
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

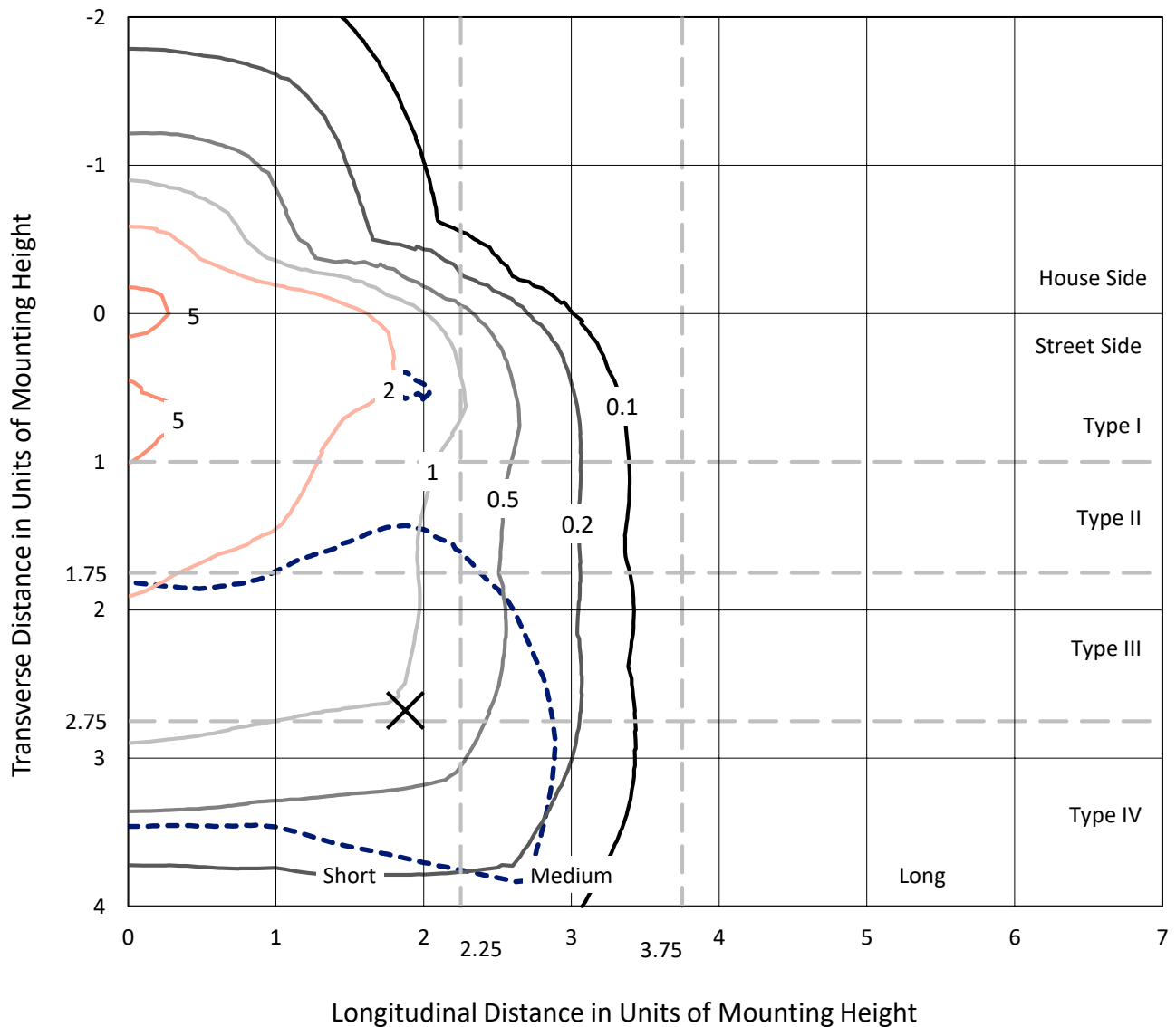


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

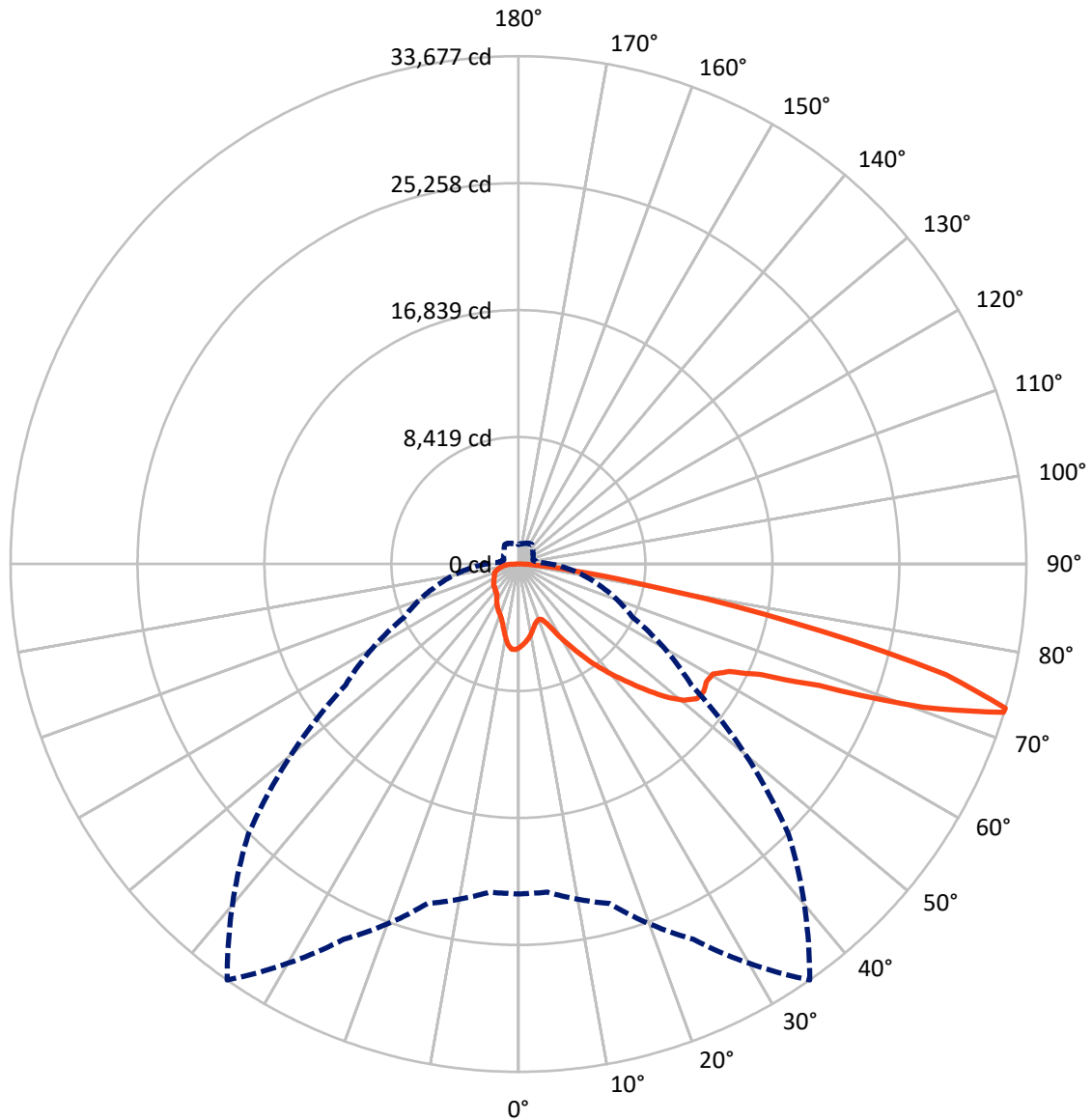


Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - Non-Cutoff

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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	7018.7	0.0	7018.7
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	29781.0	0.0	29781.0
	% Fixture	80.9	0.0	80.9
Total	Lumens	36799.7	0.0	36799.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.8	1.4
10°-20°	1255.0	3.4
20°-30°	2028.8	5.5
30°-40°	3402.0	9.2
40°-50°	5244.1	14.3
50°-60°	7035.5	19.1
60°-70°	9372.7	25.5
70°-80°	7148.5	19.4
80°-90°	810.3	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°	36799.7	100.0
0°-180°	36799.7	100.0

Coefficient of Utilization



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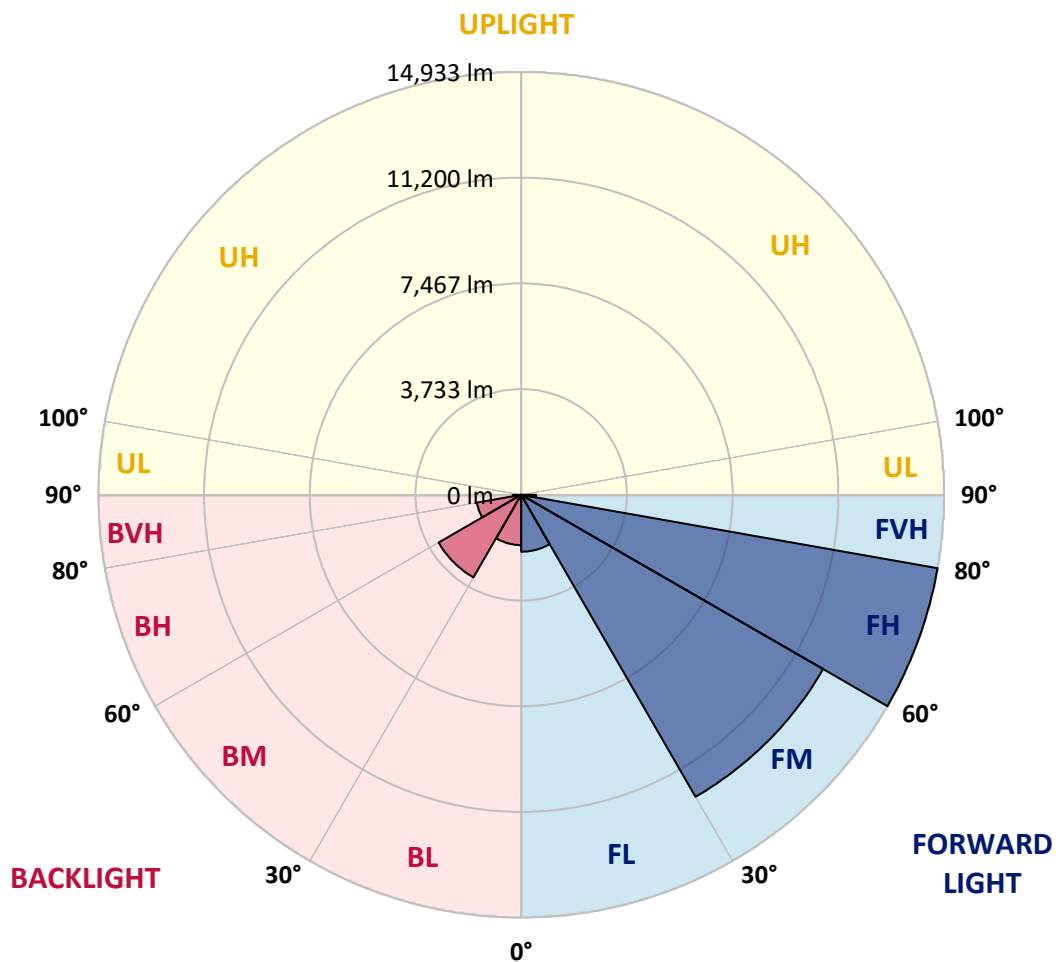
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2010.5	5.5			
FM	(30°-60°)	12313.4	33.5			
FH	(60°-80°)	14933.3	40.6			G5
FVH	(80°-90°)	523.8	1.4			G4/750
BL	(0°-30°)	1776.1	4.8	B3/2500		
BM	(30°-60°)	3368.2	9.2	B3/5000		
BH	(60°-80°)	1587.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	286.5	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5554.2	5554.2	5554.2	5554.2	5554.2	5554.2	5554.2	5554.2	5554.2	5554.2	5554.2
2.5°	5335.0	5345.6	5333.2	5349.1	5375.7	5404.1	5423.4	5451.8	5483.6	5527.7	5538.3
5°	5084.1	5100.0	5100.0	5128.3	5179.5	5225.5	5267.9	5313.8	5381.0	5457.1	5487.0
7.5°	4808.4	4817.3	4833.2	4875.6	4949.8	5015.2	5075.3	5149.5	5241.4	5342.1	5395.2
10°	4476.3	4488.7	4513.4	4573.5	4674.2	4764.3	4850.8	4953.3	5070.0	5195.4	5262.6
12.5°	4241.2	4237.7	4248.3	4292.5	4380.9	4490.4	4615.9	4746.6	4889.7	5036.4	5117.7
15°	4161.7	4142.3	4101.7	4091.1	4138.8	4248.3	4393.3	4554.0	4725.4	4902.1	5002.8
17.5°	4211.2	4177.6	4066.3	3985.1	3978.0	4061.0	4214.7	4395.0	4592.9	4808.4	4933.9
20°	4522.2	4442.7	4168.8	3979.8	3914.3	3954.9	4089.3	4280.1	4513.4	4799.6	4960.4
22.5°	5266.1	5149.5	4568.2	4216.5	3995.7	3946.1	4046.9	4250.1	4522.2	4909.1	5114.2
25°	6349.4	6183.4	5253.7	4806.7	4350.9	4087.5	4110.5	4319.1	4647.7	5163.6	5411.1
27.5°	7204.8	7097.0	6149.7	5639.0	4997.5	4469.2	4317.3	4492.2	4903.8	5580.7	5833.5
30°	7713.7	7648.3	7107.6	6582.7	5822.9	5077.1	4713.0	4817.3	5305.0	6158.6	6367.0
32.5°	8303.9	8265.0	7999.9	7517.6	6713.5	5875.9	5340.3	5303.2	5842.2	6853.1	6948.5
35°	8915.4	8903.0	8747.4	8401.0	7669.5	6929.0	6172.8	5921.7	6427.3	7574.1	7514.1
37.5°	9484.3	9463.1	9373.0	9171.6	8669.7	8060.0	7021.0	6556.2	7058.1	8263.2	7996.4
40°	10532.4	10366.3	10057.0	9905.0	9680.6	9012.5	7694.3	7148.3	7711.9	8920.7	8413.4
42.5°	11809.9	11539.5	10963.5	10755.0	10723.2	9763.6	8153.7	7722.5	8371.0	9572.8	8823.5
45°	12815.5	12561.0	12064.4	11801.2	11917.9	10444.0	8614.9	8335.7	9049.6	10256.7	9245.9
47.5°	13888.2	13488.8	12831.4	12910.9	13165.4	11087.2	9085.0	8994.9	9793.6	11021.8	9770.7
50°	13927.1	13621.3	13333.4	13808.7	14204.4	11679.3	9673.5	9685.9	10703.8	11984.9	10468.7
52.5°	13119.4	13054.1	13511.8	14259.2	14830.1	12147.5	10343.3	10399.8	11868.2	13091.2	11235.7
55°	12836.7	12762.5	13291.0	14102.0	14914.9	12534.5	11069.5	11172.0	13276.7	14257.4	11983.2
57.5°	13525.9	13361.6	13397.0	14027.8	14708.2	12958.7	11861.2	12068.0	14807.1	15277.1	12463.9
60°	15452.1	15100.5	14432.4	14416.5	14819.5	13594.8	12776.7	13029.3	16397.7	15765.0	12276.5
62.5°	18154.1	17802.5	16551.4	15736.7	15676.5	14644.4	13900.6	13967.7	17316.4	15104.0	11133.1
65°	21078.8	20764.2	19366.4	18216.0	17661.0	16383.4	15206.5	14386.5	17016.1	13285.6	9132.7
67.5°	24629.0	24291.4	23089.9	22027.8	21494.0	19189.8	16123.7	13985.4	15109.3	10292.1	6565.1
70°	27111.9	26767.3	26293.7	27154.3	28460.2	23238.3	16242.1	12354.3	11285.1	6840.8	3951.4
72.5°	23872.6	23711.9	24576.0	28200.5	33639.8	25694.6	14681.7	8994.9	6554.5	3631.6	2286.7
73°	21872.2	21836.9	23310.7	27467.1	33677.0	25316.5	13997.7	8360.4	5621.4	3212.7	2090.5
75°	9876.8	10161.2	13391.7	20979.8	29259.1	20861.3	9852.0	4796.1	3175.6	2219.5	1578.1
77.5°	2373.3	2472.2	4190.0	9963.3	18477.5	12432.1	4463.9	2371.5	2030.4	1567.5	1152.2
80°	1010.9	1044.4	1613.4	3681.1	8699.7	5006.4	2056.9	1588.7	1404.9	1093.9	807.5
82.5°	562.0	597.4	915.5	1669.9	3511.4	1707.0	1254.8	1106.3	924.3	659.1	524.9
85°	318.1	337.6	535.5	933.1	1488.0	685.6	751.1	735.2	521.3	339.3	258.1
87.5°	150.1	162.6	258.1	433.0	583.2	268.7	381.7	420.5	327.0	206.8	134.2
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°	5554.2	5554.2	5554.2	5554.2	5554.2	5554.2	5554.2	5554.2	5554.2	5554.2
2.5°	5550.6	5582.4	5619.5	5639.0	5656.6	5677.8	5699.1	5699.1	5702.7	5704.4
5°	5511.8	5577.1	5635.4	5660.2	5665.5	5665.5	5660.2	5632.0	5607.2	5617.8
7.5°	5430.6	5526.0	5575.4	5566.5	5499.5	5421.7	5356.4	5276.7	5236.1	5229.0
10°	5313.8	5423.4	5432.3	5343.8	5177.8	5011.7	4873.8	4739.5	4675.9	4660.0
12.5°	5184.8	5285.5	5229.0	5047.0	4780.2	4538.1	4363.2	4227.1	4167.0	4151.1
15°	5080.6	5149.5	5006.4	4720.1	4384.4	4128.2	3983.3	3882.5	3840.1	3827.7
17.5°	5025.8	5040.0	4778.4	4391.5	4034.5	3820.6	3730.5	3682.8	3666.9	3658.1
20°	5052.3	4953.3	4561.1	4085.8	3748.2	3597.9	3576.7	3564.4	3560.8	3555.5
22.5°	5184.8	4926.8	4361.5	3795.9	3497.2	3431.9	3449.5	3447.8	3444.2	3440.7
25°	5421.7	4949.8	4167.0	3520.2	3287.0	3272.7	3304.7	3304.7	3290.5	3290.5
27.5°	5734.5	4997.5	3949.6	3258.6	3096.1	3097.9	3122.6	3115.5	3099.6	3089.0
30°	6116.2	5027.6	3695.2	3023.7	2917.5	2910.5	2917.5	2887.5	2839.8	2836.3
32.5°	6506.8	4990.4	3400.1	2815.1	2728.5	2712.6	2707.3	2664.9	2610.1	2594.2
35°	6860.1	4854.4	3099.6	2649.0	2548.2	2512.9	2537.6	2523.5	2474.0	2461.6
37.5°	7118.2	4601.7	2829.2	2502.3	2419.2	2410.4	2426.3	2431.6	2373.3	2360.9
40°	7291.4	4258.9	2597.8	2378.6	2394.5	2360.9	2307.9	2270.8	2253.2	2247.9
42.5°	7431.0	3901.9	2403.3	2320.3	2399.8	2302.6	2187.7	2127.6	2159.4	2173.5
45°	7591.8	3553.8	2240.7	2247.9	2373.3	2235.4	2104.6	2046.3	2058.7	2062.2
47.5°	7812.6	3129.7	2065.8	2131.1	2285.0	2189.4	2053.4	1970.4	1912.1	1885.5
50°	8118.4	2627.8	1883.7	2000.4	2198.3	2155.9	1973.9	1885.5	1777.7	1753.0
52.5°	8330.4	2159.4	1733.5	1890.8	2120.5	2088.7	1910.3	1795.4	1682.3	1661.1
55°	8215.5	1793.6	1602.8	1768.9	2018.1	2005.7	1857.2	1703.5	1615.2	1597.5
57.5°	7641.3	1562.2	1502.1	1654.0	1892.5	1935.0	1786.5	1625.8	1562.2	1549.8
60°	6545.6	1417.3	1438.5	1576.3	1790.1	1864.3	1715.9	1583.4	1541.0	1532.1
62.5°	5078.8	1320.1	1390.8	1519.8	1710.6	1814.8	1677.0	1578.1	1562.2	1551.6
65°	3638.7	1242.4	1339.6	1463.2	1638.1	1768.9	1662.9	1571.0	1574.5	1565.7
67.5°	2472.2	1173.4	1277.7	1399.6	1567.5	1728.2	1643.4	1546.3	1590.4	1579.8
70°	1730.0	1106.3	1205.2	1318.4	1479.1	1671.7	1608.1	1509.2	1505.6	1463.2
72.5°	1350.2	1017.9	1106.3	1205.2	1366.1	1592.2	1537.4	1426.1	1367.8	1323.7
73°	1288.3	996.7	1081.5	1180.5	1341.3	1572.8	1518.0	1403.2	1337.8	1297.2
75°	1065.6	904.9	982.6	1070.9	1235.3	1480.9	1422.6	1298.9	1215.9	1191.1
77.5°	837.6	774.0	848.2	927.8	1088.6	1346.6	1281.3	1162.8	1116.9	1095.7
80°	620.3	641.5	706.8	777.6	943.7	1203.4	1145.1	1026.8	1231.8	1180.5
82.5°	436.4	486.0	546.1	609.7	791.6	1063.9	993.2	871.3	901.3	749.2
85°	258.1	318.1	374.7	429.4	570.9	881.9	820.0	694.5	569.0	542.5
87.5°	150.1	176.7	192.6	249.2	392.3	664.4	577.9	514.2	295.2	199.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)