

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: P318391

Luminaire Tested: **GAN-SA7A-740-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32970 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

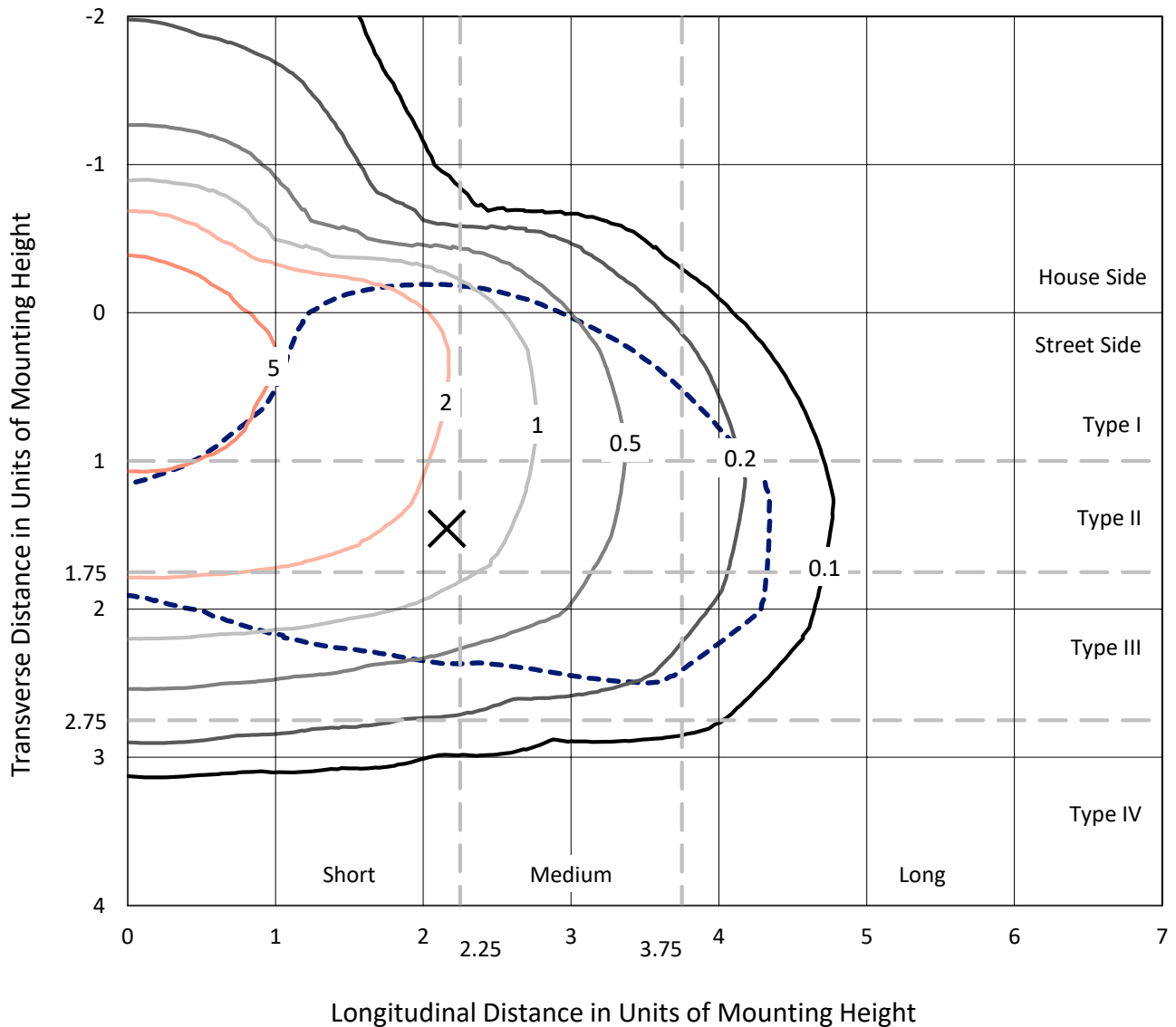
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

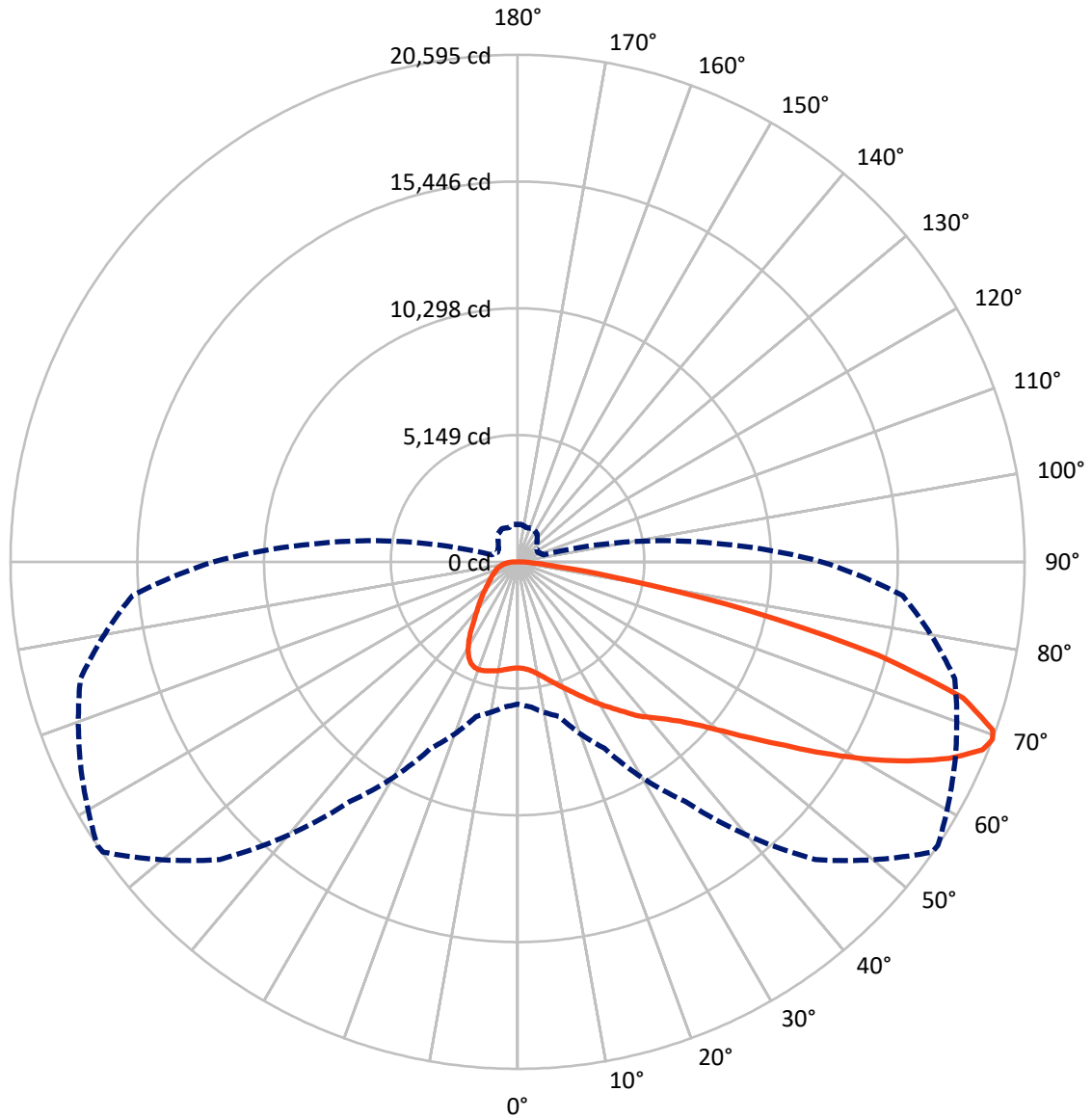
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7342.4	0.0	7342.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	25627.6	0.0	25627.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	32970.0	0.0	32970.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.3	1.3
10°-20°	1361.3	4.1
20°-30°	2376.3	7.2
30°-40°	3413.5	10.4
40°-50°	4724.1	14.3
50°-60°	6921.4	21.0
60°-70°	8438.5	25.6
70°-80°	4665.4	14.2
80°-90°	646.2	2.0
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°	32970.0	100.0
0°-180°	32970.0	100.0

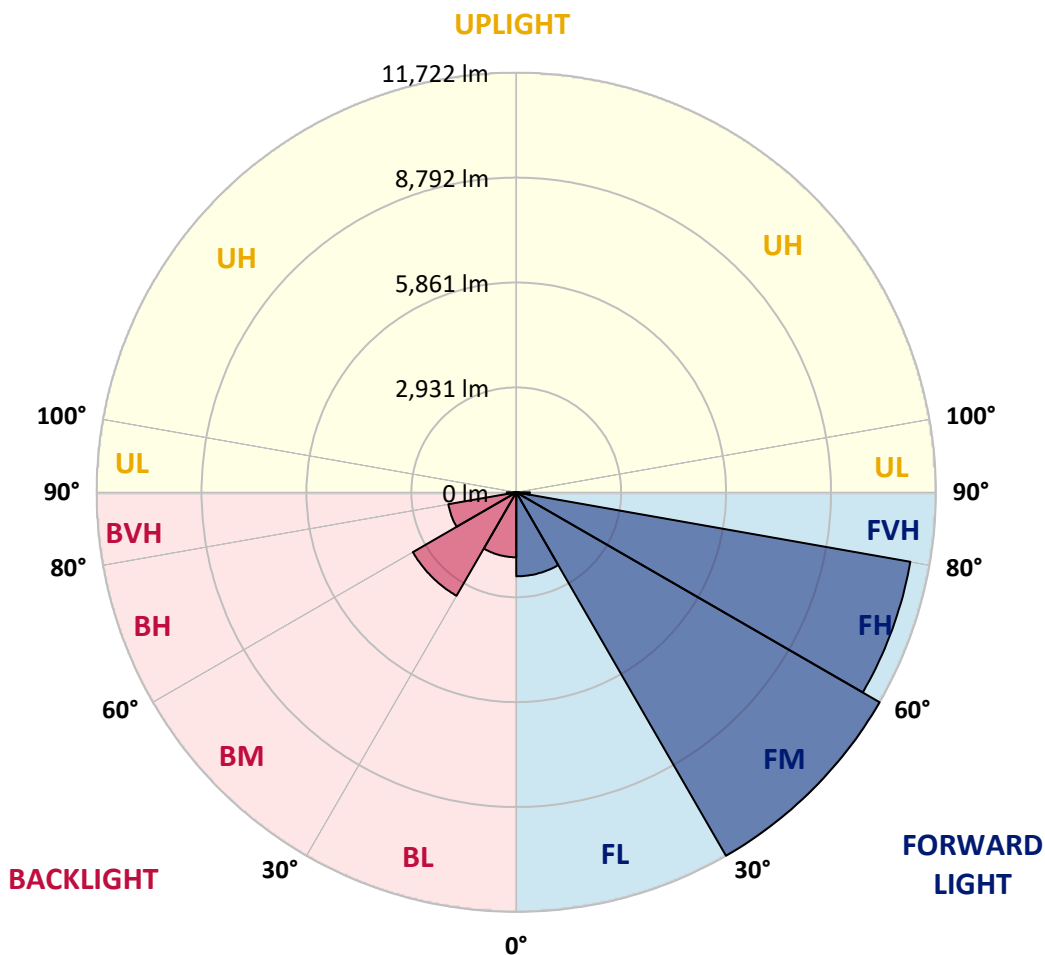


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2346.5	7.1			
FM (30°-60°)	11722.1	35.6			
FH (60°-80°)	11178.5	33.9			G4/12000
FVH (80°-90°)	380.6	1.2			G3/500
BL (0°-30°)	1814.5	5.5	B3/2500		
BM (30°-60°)	3336.9	10.1	B3/5000		
BH (60°-80°)	1925.4	5.8	B3/2500		G3/2500
BVH (80°-90°)	265.6	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4310.3	4310.3	4310.3	4310.3	4310.3	4310.3	4310.3	4310.3	4310.3	4310.3	4310.3
2.5°	4337.6	4342.1	4338.7	4347.8	4337.6	4344.4	4338.7	4338.7	4335.3	4325.1	4313.7
5°	4405.7	4414.8	4409.1	4418.2	4405.7	4408.0	4397.8	4397.8	4387.6	4366.0	4343.3
7.5°	4512.5	4522.7	4518.2	4527.3	4510.2	4510.2	4496.6	4495.5	4475.0	4439.8	4413.7
10°	4639.7	4653.3	4648.8	4662.4	4648.8	4653.3	4639.7	4639.7	4612.5	4562.5	4529.5
12.5°	4824.8	4841.9	4829.4	4828.3	4822.6	4831.7	4820.3	4818.0	4793.0	4724.9	4679.5
15°	5072.4	5090.6	5064.5	5062.2	5030.4	5027.0	5027.0	5023.6	5007.7	4925.9	4851.0
17.5°	5357.5	5363.2	5340.5	5304.1	5263.3	5237.1	5233.7	5242.8	5242.8	5147.4	5028.2
20°	5636.9	5647.2	5629.0	5588.1	5535.9	5497.2	5470.0	5488.1	5487.0	5373.4	5204.2
22.5°	5941.3	5965.2	5937.9	5885.7	5824.3	5781.2	5733.5	5749.4	5750.5	5610.8	5376.8
25°	6335.4	6313.9	6296.8	6223.0	6135.5	6091.3	6047.0	6062.9	6058.3	5866.4	5555.2
27.5°	6684.1	6688.7	6666.0	6587.6	6486.5	6388.8	6386.6	6396.8	6379.7	6132.1	5723.3
30°	7089.6	7091.9	7060.1	6989.7	6879.5	6753.4	6723.9	6740.9	6704.6	6384.3	5900.4
32.5°	7492.8	7504.2	7469.0	7383.8	7295.2	7141.9	7082.8	7094.2	7003.3	6642.1	6083.3
35°	7846.1	7862.0	7850.6	7793.8	7697.3	7565.5	7495.1	7488.3	7375.8	6957.9	6325.2
37.5°	8206.1	8220.9	8208.4	8160.7	8122.0	7982.3	7944.9	7944.9	7749.5	7280.4	6633.0
40°	8576.4	8599.1	8584.3	8518.4	8485.5	8421.9	8332.2	8310.6	8099.3	7667.7	7135.0
42.5°	8920.5	8950.0	9009.1	8970.5	8903.5	8912.6	8732.0	8720.6	8566.1	8240.2	7765.4
45°	9408.9	9452.1	9552.0	9522.5	9508.9	9458.9	9244.2	9234.0	9174.9	9010.2	8548.0
47.5°	9941.6	10000.6	10181.2	10186.9	10333.4	10239.2	9947.3	9912.1	9925.7	9932.5	9503.2
50°	10432.3	10497.0	10793.4	10933.1	11278.4	11298.9	10832.0	10800.2	10853.6	11010.4	10616.2
52.5°	10824.1	10905.9	11276.1	11707.7	12299.5	12467.6	11921.3	11897.4	11937.2	12207.5	11874.7
55°	11111.5	11200.0	11603.3	12389.2	13334.2	13630.6	13175.2	13152.5	13177.5	13521.6	13243.3
57.5°	11178.5	11200.0	11785.0	12848.1	14207.6	14919.8	14709.6	14664.2	14541.5	14841.4	14753.9
60°	10863.9	10950.2	11635.1	13009.4	14883.4	16190.7	16313.4	16256.6	15912.4	16157.8	16087.4
62.5°	10225.5	10380.0	11075.1	12764.0	15148.1	17228.8	17886.5	17818.3	17225.4	17384.4	17046.0
65°	9182.9	9248.8	9979.1	11917.9	14811.9	17893.3	19289.2	19255.1	18508.9	18260.1	17223.2
67.5°	7317.9	7441.7	8061.9	10149.4	13436.4	17814.9	20373.8	20370.4	19347.1	18585.0	16595.1
69°	5781.2	5909.5	6500.1	8360.6	11889.5	17098.2	20555.6	20595.3	19583.3	18387.3	15697.8
70°	4609.0	4757.8	5163.3	7041.9	10516.3	16153.2	20404.5	20476.1	19537.9	18061.4	14869.8
72.5°	1961.5	2081.9	2370.4	3630.0	6409.3	12062.1	18656.5	18926.8	18485.0	16530.3	12289.3
75°	856.4	893.9	1024.5	1479.9	2845.2	6564.9	14615.4	15115.1	15805.7	13972.5	9154.5
77.5°	627.0	642.9	714.4	868.9	1276.6	2479.4	9398.7	9689.4	11398.8	10167.6	5615.4
80°	485.0	496.3	552.0	638.3	833.7	1002.9	4286.5	4536.4	6409.3	5222.4	2338.6
82.5°	386.2	394.1	432.7	470.2	575.8	607.6	1423.1	1578.8	2365.9	1442.5	619.0
85°	358.9	368.0	381.6	343.0	369.1	356.6	615.6	644.0	714.4	566.8	259.0
87.5°	162.4	191.9	378.2	266.9	196.5	156.7	252.1	263.5	296.4	297.6	114.7
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°	4310.3	4310.3	4310.3	4310.3	4310.3	4310.3	4310.3	4310.3	4310.3	4310.3	4310.3
2.5°	4320.6	4317.1	4322.8	4309.2	4326.2	4325.1	4319.4	4321.7	4333.0	4331.9	4333.0
5°	4346.7	4344.4	4351.2	4341.0	4361.4	4368.3	4369.4	4379.6	4392.1	4395.5	4395.5
7.5°	4412.6	4412.6	4416.0	4402.3	4416.0	4414.8	4409.1	4419.4	4431.9	4433.0	4431.9
10°	4526.1	4527.3	4521.6	4486.4	4475.0	4444.4	4416.0	4417.1	4433.0	4445.5	4448.9
12.5°	4669.2	4664.7	4639.7	4575.0	4527.3	4464.8	4435.3	4434.1	4450.0	4460.3	4463.7
15°	4832.8	4820.3	4755.6	4649.9	4565.9	4504.6	4456.8	4445.5	4436.4	4425.0	4426.2
17.5°	4987.3	4958.9	4851.0	4704.5	4615.9	4534.1	4442.1	4368.3	4317.1	4287.6	4278.5
20°	5144.0	5088.3	4932.7	4755.6	4643.1	4494.3	4317.1	4167.2	4074.1	4030.9	4023.0
22.5°	5287.1	5197.4	5008.8	4808.9	4621.5	4360.3	4082.0	3864.0	3734.5	3676.6	3681.1
25°	5426.8	5301.9	5088.3	4846.4	4512.5	4124.1	3754.9	3486.9	3337.0	3272.2	3269.9
27.5°	5549.5	5407.5	5174.7	4815.8	4309.2	3787.9	3367.6	3106.4	2981.5	2925.8	2916.7
30°	5690.3	5540.4	5289.4	4698.8	4011.6	3399.4	2989.4	2805.4	2716.8	2661.2	2650.9
32.5°	5861.8	5721.0	5383.7	4486.4	3631.1	2993.9	2694.1	2565.8	2485.1	2422.6	2411.3
35°	6111.7	5959.5	5407.5	4182.0	3213.2	2673.7	2477.2	2345.4	2236.4	2155.7	2147.8
37.5°	6425.2	6258.2	5353.0	3787.9	2807.7	2465.8	2296.6	2134.2	1992.2	1878.6	1860.4
40°	6877.2	6625.1	5201.9	3333.5	2509.0	2305.7	2120.5	1935.4	1759.3	1626.5	1600.3
42.5°	7420.1	7055.5	4970.2	2881.5	2289.8	2143.2	1945.6	1716.2	1548.1	1453.8	1440.2
45°	8110.7	7503.0	4648.8	2486.2	2074.0	1980.8	1757.1	1545.8	1441.3	1372.0	1360.7
47.5°	8898.9	8005.1	4311.5	2164.8	1891.1	1828.6	1606.0	1469.7	1386.8	1332.3	1322.1
50°	9867.8	8571.8	3953.7	1901.3	1707.1	1645.8	1534.5	1427.7	1361.8	1319.8	1309.6
52.5°	10960.4	9211.3	3695.9	1693.5	1554.9	1510.6	1497.0	1405.0	1351.6	1319.8	1309.6
55°	12137.1	9862.1	3417.6	1518.6	1423.1	1435.6	1472.0	1407.2	1370.9	1332.3	1317.5
57.5°	13314.9	10534.5	3107.5	1370.9	1318.7	1380.0	1454.9	1411.8	1381.1	1343.6	1330.0
60°	14246.2	10960.4	2627.1	1247.1	1235.7	1318.7	1414.1	1377.7	1338.0	1339.1	1336.8
62.5°	14681.2	10937.7	2096.7	1136.9	1152.8	1235.7	1348.2	1324.3	1291.4	1335.7	1339.1
65°	14437.1	10392.5	1632.1	1037.0	1064.2	1149.4	1280.0	1298.2	1309.6	1394.8	1406.1
67.5°	13412.6	9331.7	1264.1	949.5	983.6	1090.4	1286.9	1414.1	1428.8	1518.6	1517.4
69°	12352.9	8336.7	1098.3	904.1	943.8	1105.1	1375.4	1487.9	1432.2	1527.6	1514.0
70°	11464.7	7549.6	1009.7	873.4	925.7	1131.2	1434.5	1486.8	1415.2	1497.0	1474.3
72.5°	8829.6	5431.4	856.4	816.6	864.3	1082.4	1451.5	1453.8	1375.4	1391.3	1352.7
75°	6056.0	3432.4	747.4	739.4	771.2	975.6	1397.0	1389.1	1272.1	1249.4	1217.6
77.5°	3339.2	1743.4	634.9	665.6	687.2	864.3	1269.8	1258.5	1161.9	1114.2	1102.9
80°	1288.0	763.3	536.1	591.7	605.4	748.5	1113.1	1102.9	1022.2	960.9	943.8
82.5°	486.1	399.8	443.0	512.2	507.7	617.9	942.7	937.0	858.7	768.9	741.7
85°	224.9	239.7	351.0	422.5	389.6	457.7	754.2	764.4	669.0	562.2	562.2
87.5°	95.4	134.0	248.7	319.2	262.4	308.9	553.1	528.1	485.0	336.2	315.8
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)