

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: P318431

Luminaire Tested: **GAN-SA7A-750-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318431
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-750-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32969 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

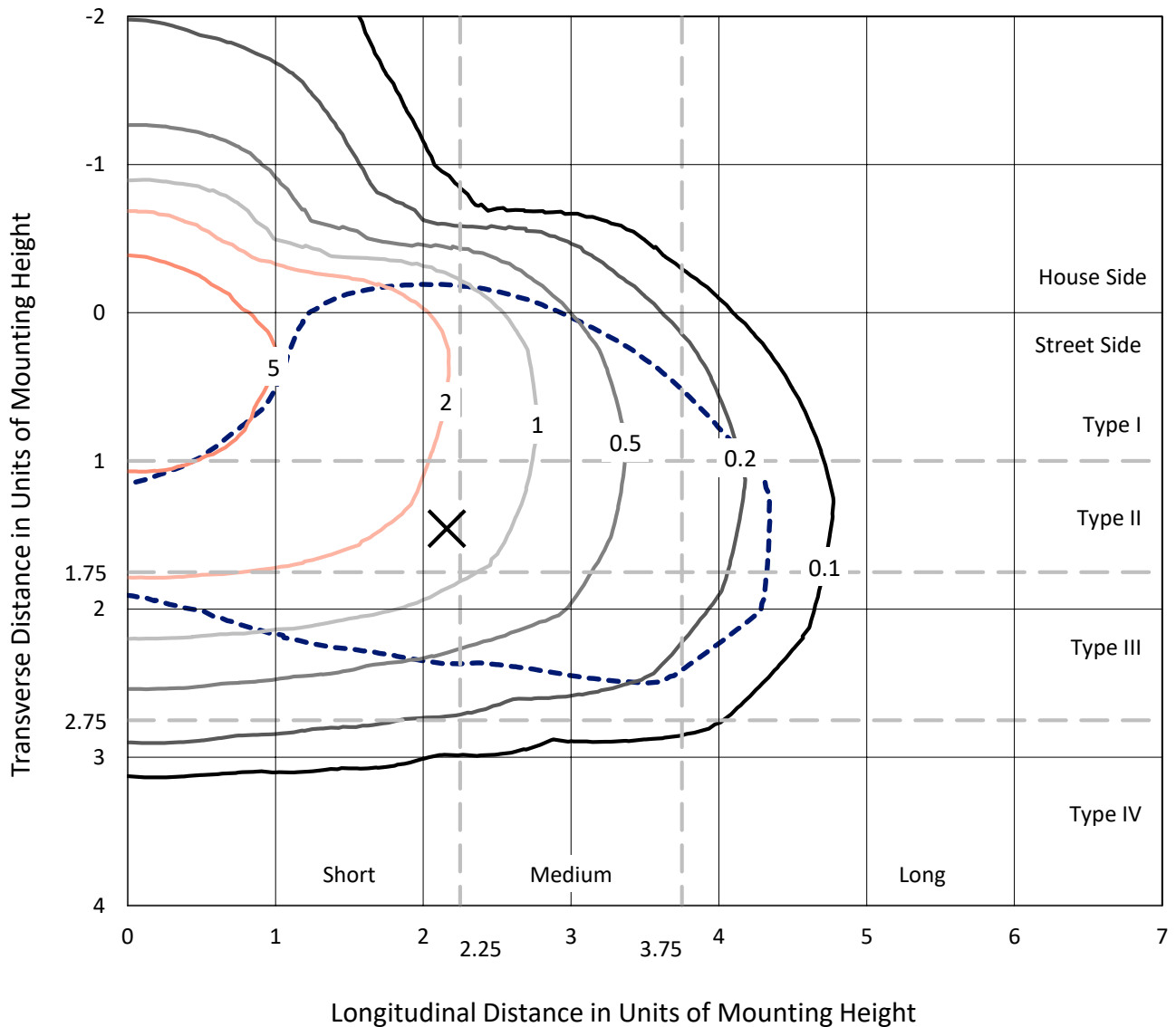
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

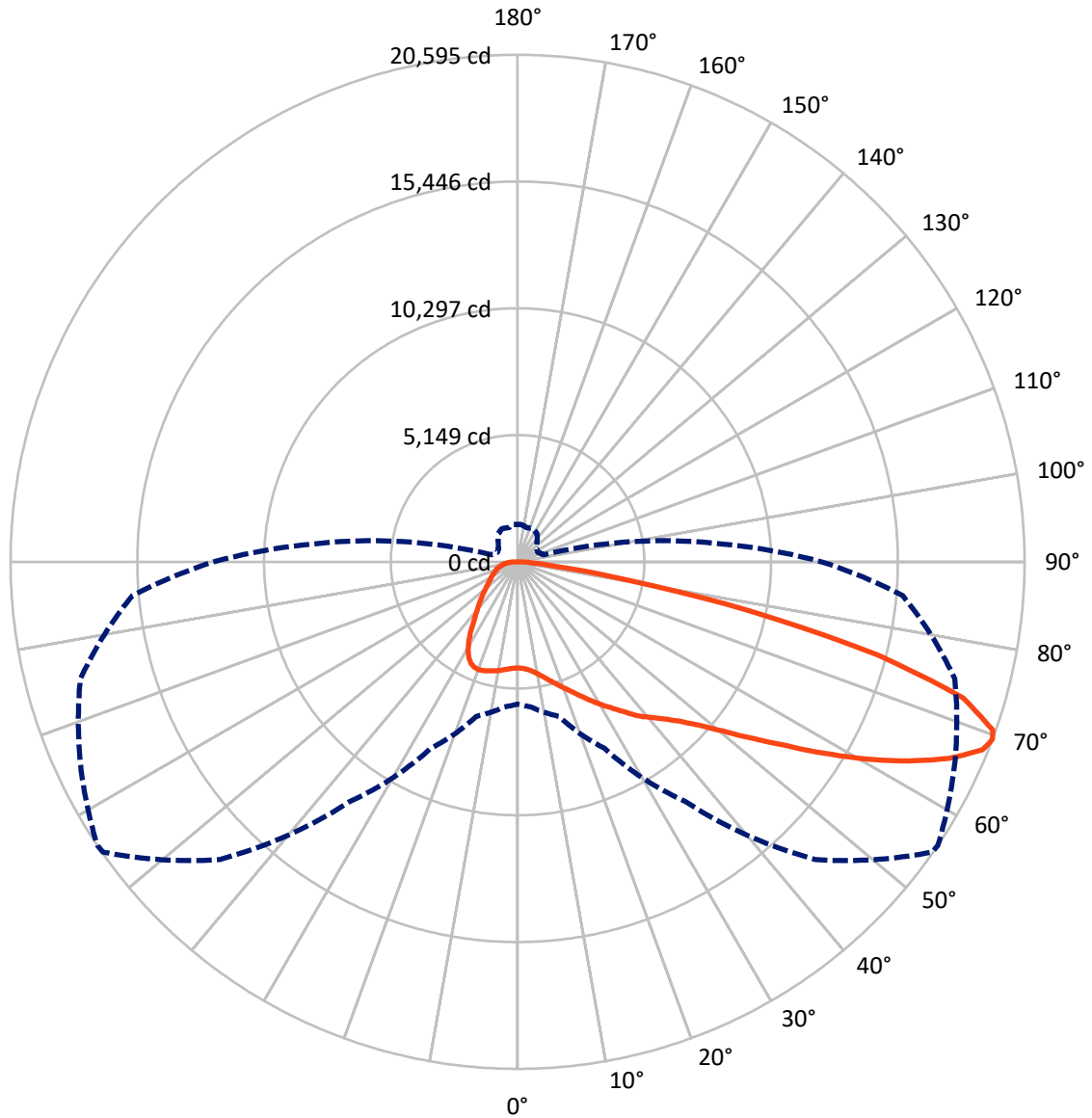
✕ Max cd
 - - - 1/2 Max cd



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	7342.1	0.0	7342.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	25626.9	0.0	25626.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	32969.0	0.0	32969.0
	% 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°	2376.2	7.2
30°-40°	3413.4	10.4
40°-50°	4723.9	14.3
50°-60°	6921.2	21.0
60°-70°	8438.3	25.6
70°-80°	4665.2	14.2
80°-90°	646.1	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°	32969.0	100.0
0°-180°	32969.0	100.0

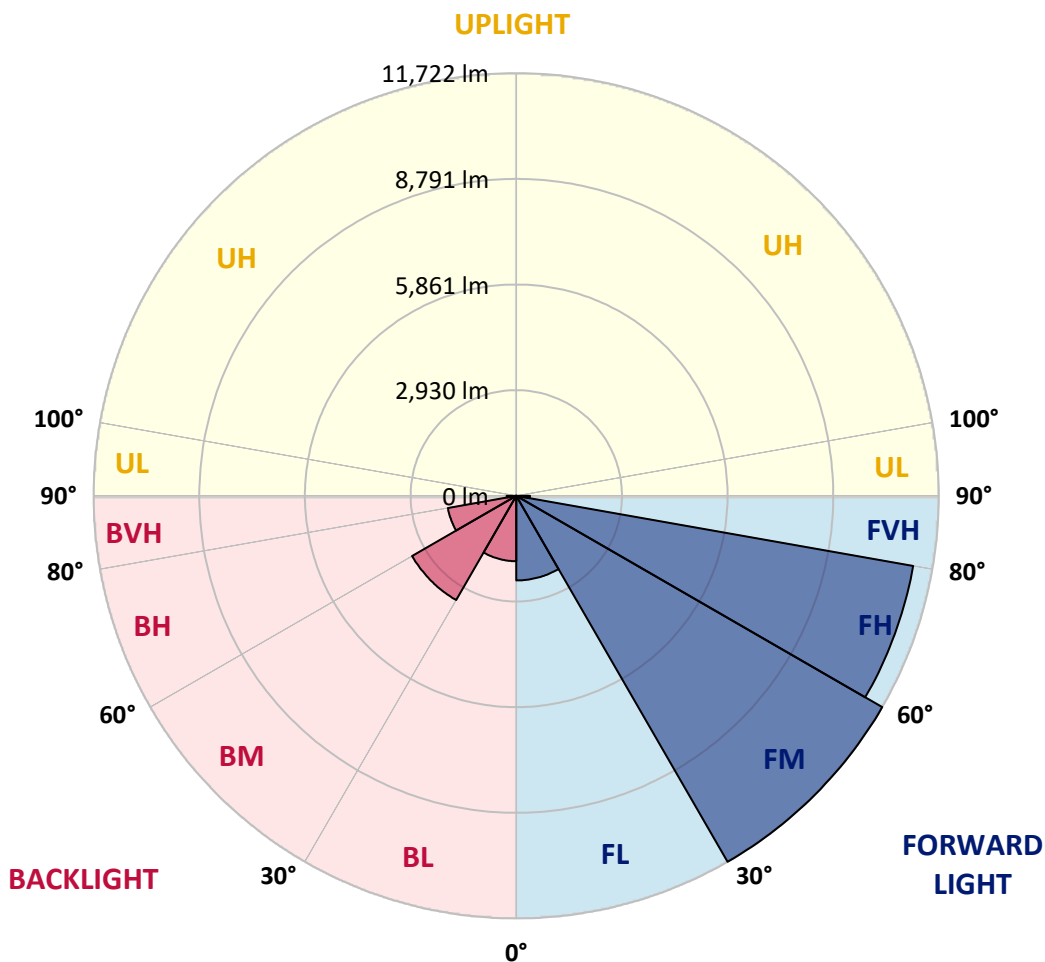


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2346.4	7.1			
FM	(30°-60°)	11721.7	35.6			
FH	(60°-80°)	11178.1	33.9			G4/12000
FVH	(80°-90°)	380.6	1.2			G3/500
BL	(0°-30°)	1814.4	5.5	B3/2500		
BM	(30°-60°)	3336.8	10.1	B3/5000		
BH	(60°-80°)	1925.4	5.8	B3/2500		G3/2500
BVH	(80°-90°)	265.5	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4310.2	4310.2	4310.2	4310.2	4310.2	4310.2	4310.2	4310.2	4310.2	4310.2	4310.2
2.5°	4337.5	4342.0	4338.6	4347.7	4337.5	4344.3	4338.6	4338.6	4335.2	4325.0	4313.6
5°	4405.6	4414.7	4409.0	4418.1	4405.6	4407.9	4397.7	4397.7	4387.4	4365.9	4343.1
7.5°	4512.4	4522.6	4518.0	4527.1	4510.1	4510.1	4496.5	4495.3	4474.9	4439.7	4413.6
10°	4639.6	4653.2	4648.7	4662.3	4648.7	4653.2	4639.6	4639.6	4612.3	4562.3	4529.4
12.5°	4824.7	4841.7	4829.2	4828.1	4822.4	4831.5	4820.2	4817.9	4792.9	4724.8	4679.3
15°	5072.3	5090.5	5064.3	5062.1	5030.3	5026.9	5026.9	5023.5	5007.6	4925.8	4850.8
17.5°	5357.4	5363.0	5340.3	5304.0	5263.1	5237.0	5233.6	5242.7	5242.7	5147.3	5028.0
20°	5636.8	5647.0	5628.8	5587.9	5535.7	5497.1	5469.8	5488.0	5486.8	5373.3	5204.0
22.5°	5941.1	5965.0	5937.7	5885.5	5824.2	5781.0	5733.3	5749.2	5750.3	5610.6	5376.7
25°	6335.3	6313.7	6296.6	6222.8	6135.4	6091.1	6046.8	6062.7	6058.1	5866.2	5555.0
27.5°	6683.9	6688.5	6665.8	6587.4	6486.3	6388.6	6386.4	6396.6	6379.6	6132.0	5723.1
30°	7089.4	7091.7	7059.9	6989.5	6879.3	6753.2	6723.7	6740.7	6704.4	6384.1	5900.3
32.5°	7492.6	7504.0	7468.7	7383.6	7295.0	7141.6	7082.6	7093.9	7003.1	6641.9	6083.1
35°	7845.8	7861.7	7850.4	7793.6	7697.0	7565.3	7494.9	7488.1	7375.6	6957.7	6325.0
37.5°	8205.8	8220.6	8208.1	8160.4	8121.8	7982.1	7944.6	7944.6	7749.3	7280.2	6632.8
40°	8576.1	8598.8	8584.1	8518.2	8485.2	8421.6	8331.9	8310.3	8099.1	7667.5	7134.8
42.5°	8920.2	8949.8	9008.8	8970.2	8903.2	8912.3	8731.7	8720.3	8565.9	8239.9	7765.2
45°	9408.6	9451.8	9551.7	9522.2	9508.6	9458.6	9243.9	9233.7	9174.7	9010.0	8547.7
47.5°	9941.3	10000.3	10180.9	10186.6	10333.1	10238.9	9947.0	9911.8	9925.4	9932.2	9502.9
50°	10431.9	10496.7	10793.1	10932.8	11278.1	11298.5	10831.7	10799.9	10853.3	11010.0	10615.9
52.5°	10823.8	10905.5	11275.8	11707.4	12299.1	12467.2	11920.9	11897.1	11936.8	12207.1	11874.3
55°	11111.1	11199.7	11602.9	12388.8	13333.8	13630.2	13174.8	13152.1	13177.1	13521.2	13242.9
57.5°	11178.1	11199.7	11784.6	12847.7	14207.2	14919.3	14709.2	14663.8	14541.1	14840.9	14753.5
60°	10863.5	10949.8	11634.7	13009.0	14883.0	16190.2	16312.9	16256.1	15912.0	16157.3	16086.9
62.5°	10225.2	10379.7	11074.8	12763.6	15147.6	17228.3	17885.9	17817.8	17224.9	17383.9	17045.5
65°	9182.6	9248.5	9978.8	11917.5	14811.4	17892.7	19288.6	19254.5	18508.3	18259.6	17222.6
67.5°	7317.7	7441.5	8061.6	10149.1	13436.0	17814.4	20373.2	20369.8	19346.5	18584.4	16594.6
69°	5781.0	5909.3	6499.9	8360.3	11889.1	17097.7	20554.9	20594.7	19582.7	18386.8	15697.3
70°	4608.9	4757.7	5163.2	7041.7	10516.0	16152.7	20403.9	20475.4	19537.3	18060.8	14869.3
72.5°	1961.5	2081.8	2370.3	3629.9	6409.1	12061.7	18656.0	18926.3	18484.5	16529.8	12288.9
75°	856.4	893.8	1024.5	1479.9	2845.1	6564.7	14614.9	15114.7	15805.2	13972.1	9154.2
77.5°	626.9	642.8	714.4	868.9	1276.6	2479.4	9398.4	9689.1	11398.5	10167.3	5615.2
80°	485.0	496.3	552.0	638.3	833.6	1002.9	4286.3	4536.2	6409.1	5222.2	2338.5
82.5°	386.2	394.1	432.7	470.2	575.8	607.6	1423.1	1578.7	2365.8	1442.4	619.0
85°	358.9	368.0	381.6	343.0	369.1	356.6	615.6	644.0	714.4	566.7	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°	4310.2	4310.2	4310.2	4310.2	4310.2	4310.2	4310.2	4310.2	4310.2	4310.2	4310.2
2.5°	4320.4	4317.0	4322.7	4309.1	4326.1	4325.0	4319.3	4321.6	4332.9	4331.8	4332.9
5°	4346.5	4344.3	4351.1	4340.9	4361.3	4368.1	4369.3	4379.5	4392.0	4395.4	4395.4
7.5°	4412.4	4412.4	4415.8	4402.2	4415.8	4414.7	4409.0	4419.2	4431.7	4432.9	4431.7
10°	4526.0	4527.1	4521.5	4486.2	4474.9	4444.2	4415.8	4417.0	4432.9	4445.4	4448.8
12.5°	4669.1	4664.6	4639.6	4574.8	4527.1	4464.7	4435.1	4434.0	4449.9	4460.1	4463.5
15°	4832.6	4820.2	4755.4	4649.8	4565.7	4504.4	4456.7	4445.4	4436.3	4424.9	4426.0
17.5°	4987.1	4958.7	4850.8	4704.3	4615.7	4533.9	4441.9	4368.1	4317.0	4287.5	4278.4
20°	5143.8	5088.2	4932.6	4755.4	4643.0	4494.2	4317.0	4167.1	4074.0	4030.8	4022.9
22.5°	5287.0	5197.2	5008.7	4808.8	4621.4	4360.2	4081.9	3863.8	3734.4	3676.4	3681.0
25°	5426.7	5301.7	5088.2	4846.3	4512.4	4123.9	3754.8	3486.8	3336.9	3272.1	3269.8
27.5°	5549.3	5407.3	5174.5	4815.6	4309.1	3787.8	3367.5	3106.3	2981.4	2925.7	2916.6
30°	5690.1	5540.2	5289.2	4698.6	4011.5	3399.3	2989.3	2805.3	2716.7	2661.1	2650.9
32.5°	5861.6	5720.8	5383.5	4486.2	3631.0	2993.9	2694.0	2565.7	2485.0	2422.6	2411.2
35°	6111.5	5959.3	5407.3	4181.9	3213.1	2673.6	2477.1	2345.3	2236.3	2155.7	2147.7
37.5°	6425.0	6258.0	5352.8	3787.8	2807.6	2465.7	2296.5	2134.1	1992.1	1878.5	1860.4
40°	6877.0	6624.9	5201.8	3333.4	2508.9	2305.6	2120.5	1935.3	1759.3	1626.4	1600.3
42.5°	7419.9	7055.3	4970.1	2881.4	2289.7	2143.2	1945.6	1716.1	1548.0	1453.8	1440.1
45°	8110.4	7502.8	4648.7	2486.2	2073.9	1980.8	1757.0	1545.8	1441.3	1372.0	1360.6
47.5°	8898.7	8004.8	4311.3	2164.8	1891.0	1828.6	1606.0	1469.7	1386.8	1332.2	1322.0
50°	9867.5	8571.6	3953.6	1901.3	1707.0	1645.7	1534.4	1427.6	1361.8	1319.8	1309.5
52.5°	10960.1	9211.0	3695.8	1693.4	1554.9	1510.6	1496.9	1404.9	1351.6	1319.8	1309.5
55°	12136.7	9861.8	3417.5	1518.5	1423.1	1435.6	1471.9	1407.2	1370.9	1332.2	1317.5
57.5°	13314.5	10534.2	3107.4	1370.9	1318.6	1379.9	1454.9	1411.7	1381.1	1343.6	1330.0
60°	14245.8	10960.1	2627.0	1247.1	1235.7	1318.6	1414.0	1377.7	1337.9	1339.1	1336.8
62.5°	14680.8	10937.3	2096.6	1136.9	1152.8	1235.7	1348.1	1324.3	1291.4	1335.7	1339.1
65°	14436.6	10392.2	1632.1	1036.9	1064.2	1149.4	1280.0	1298.2	1309.5	1394.7	1406.1
67.5°	13412.2	9331.4	1264.1	949.5	983.6	1090.3	1286.8	1414.0	1428.8	1518.5	1517.4
69°	12352.5	8336.5	1098.3	904.1	943.8	1105.1	1375.4	1487.8	1432.2	1527.6	1514.0
70°	11464.3	7549.4	1009.7	873.4	925.6	1131.2	1434.5	1486.7	1415.2	1496.9	1474.2
72.5°	8829.4	5431.2	856.4	816.6	864.3	1082.4	1451.5	1453.8	1375.4	1391.3	1352.7
75°	6055.9	3432.3	747.3	739.4	771.2	975.6	1397.0	1389.0	1272.0	1249.3	1217.5
77.5°	3339.1	1743.4	634.9	665.6	687.1	864.3	1269.8	1258.4	1161.9	1114.2	1102.8
80°	1287.9	763.2	536.1	591.7	605.4	748.5	1113.0	1102.8	1022.2	960.9	943.8
82.5°	486.1	399.8	442.9	512.2	507.7	617.9	942.7	937.0	858.6	768.9	741.6
85°	224.9	239.6	350.9	422.5	389.6	457.7	754.1	764.4	669.0	562.2	562.2
87.5°	95.4	134.0	248.7	319.1	262.4	308.9	553.1	528.1	485.0	336.2	315.7
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)