

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: P383547

Luminaire Tested: **GAN-SA8B-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA 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: 42920.1 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

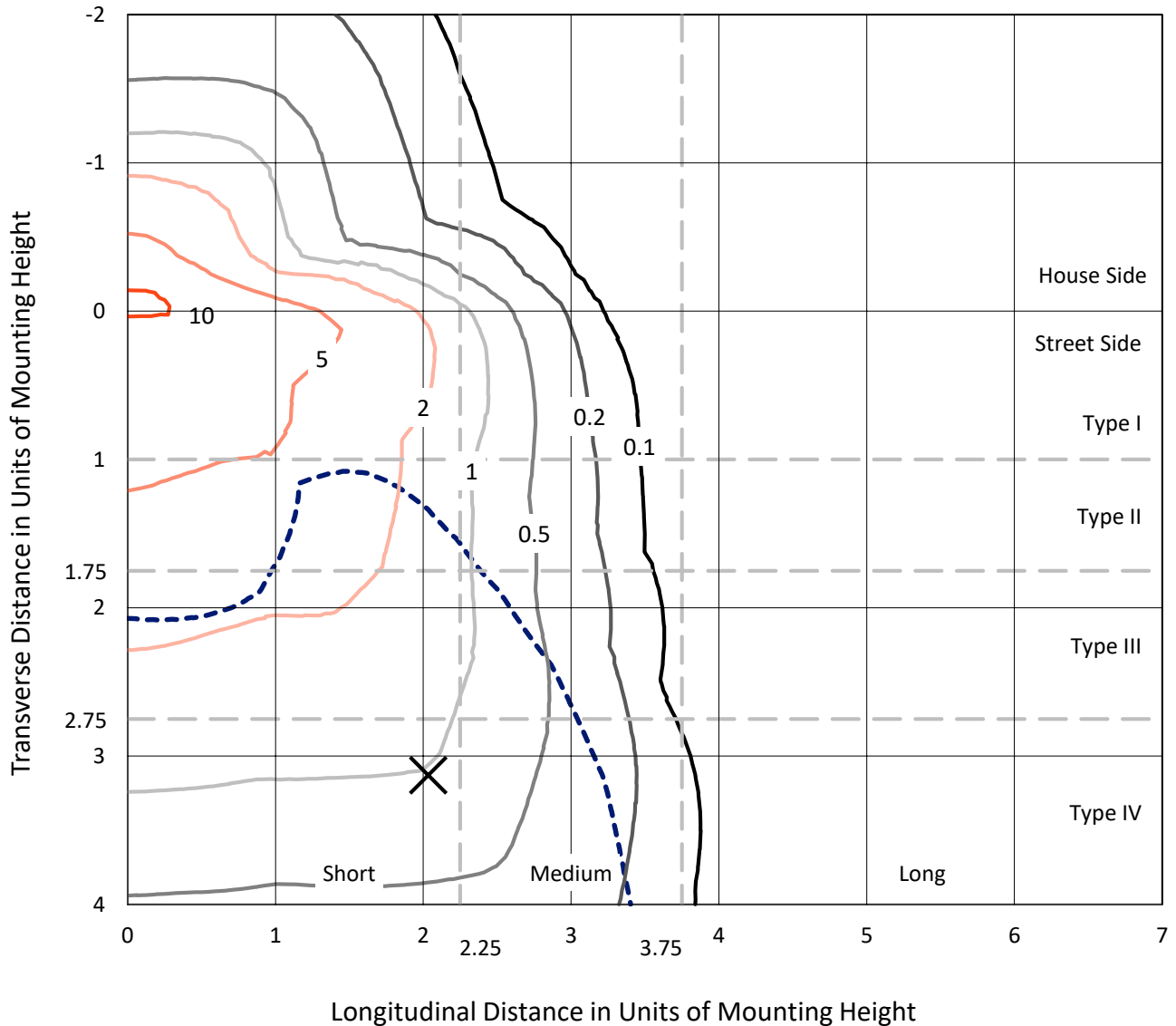
Input Watts (W): 334
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

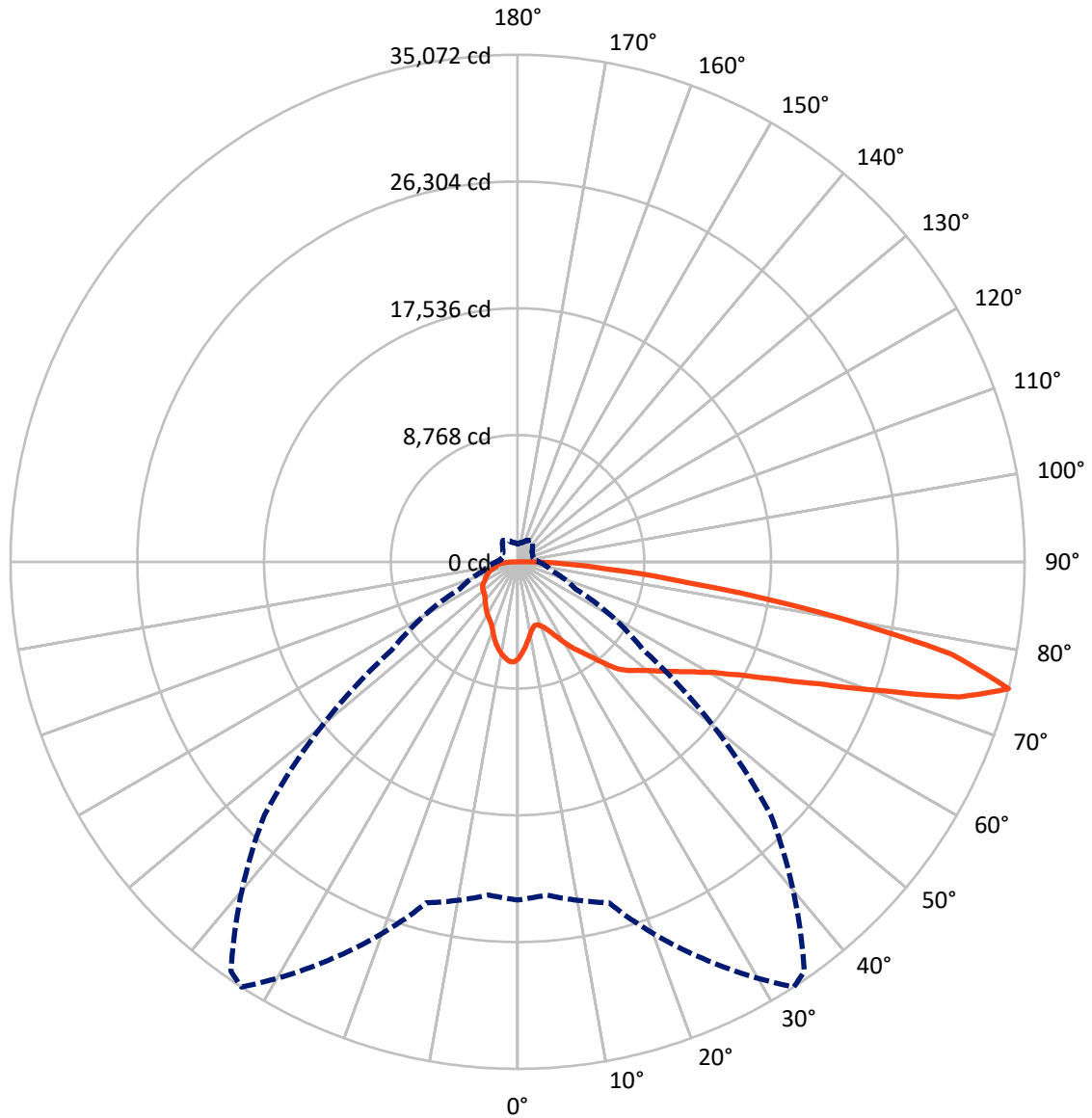
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9216.1	0.0	9216.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	33704.1	0.0	33704.1
	% Fixture	78.5	0.0	78.5
Total	Lumens	42920.1	0.0	42920.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.7	1.4
10°-20°	1643.2	3.8
20°-30°	2683.6	6.3
30°-40°	3996.6	9.3
40°-50°	5732.2	13.4
50°-60°	7869.4	18.3
60°-70°	9852.1	23.0
70°-80°	8912.7	20.8
80°-90°	1623.5	3.8
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°	42920.1	100.0
0°-180°	42920.1	100.0

Coefficient of Utilization

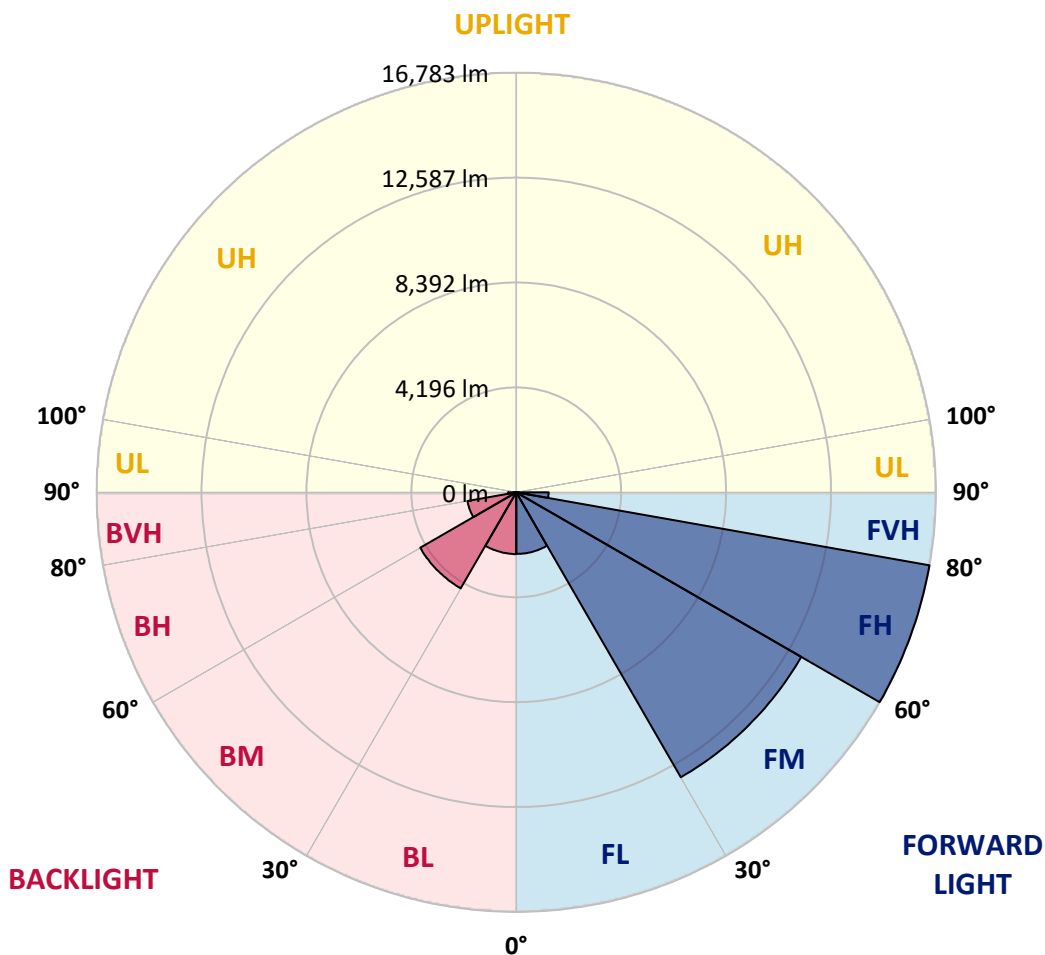


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2465.1	5.7			
FM (30°-60°)	13162.7	30.7			
FH (60°-80°)	16783.3	39.1			G5
FVH (80°-90°)	1293.0	3.0			G5
BL (0°-30°)	2468.5	5.8	B3/2500		
BM (30°-60°)	4435.4	10.3	B3/5000		
BH (60°-80°)	1981.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	330.5	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°	33°	35°	45°	55°	65°	75°	85°
0°	6708.6	6708.6	6708.6	6708.6	6708.6	6708.6	6708.6	6708.6	6708.6	6708.6	6708.6
2.5°	6229.8	6206.1	6250.5	6256.5	6295.0	6309.8	6363.2	6446.2	6514.4	6593.0	6664.2
5°	5664.9	5648.6	5710.9	5755.4	5839.9	5875.5	6001.5	6177.9	6335.1	6512.9	6674.5
7.5°	5128.3	5119.3	5189.0	5289.8	5387.7	5436.6	5654.6	5911.0	6173.5	6461.0	6708.6
10°	4676.1	4673.1	4739.8	4839.1	4982.9	5037.8	5319.5	5657.5	6025.2	6421.1	6766.5
12.5°	4422.5	4432.9	4464.1	4547.1	4680.5	4735.3	5048.1	5445.5	5900.6	6407.7	6851.0
15°	4484.7	4501.1	4447.8	4444.8	4539.6	4582.7	4876.2	5294.3	5811.7	6429.9	6974.0
17.5°	4750.1	4753.1	4612.3	4523.3	4581.2	4603.4	4822.8	5208.3	5759.9	6480.3	7128.2
20°	5123.8	5116.3	4867.3	4719.0	4750.1	4756.1	4898.4	5209.8	5755.4	6567.8	7328.4
22.5°	5619.0	5564.1	5229.1	5027.4	5020.0	5011.1	5092.7	5319.5	5820.6	6710.1	7567.1
25°	6265.4	6213.5	5752.4	5476.7	5417.3	5395.1	5407.0	5553.7	5949.6	6862.8	7833.9
27.5°	6984.4	6894.0	6449.2	6059.3	5936.2	5905.1	5833.9	5884.3	6090.5	7009.6	8151.2
30°	7586.3	7537.4	7149.0	6686.5	6541.1	6496.6	6309.8	6255.0	6293.5	7209.8	8551.5
32.5°	7922.9	7890.3	7654.5	7281.0	7146.0	7083.8	6819.9	6710.1	6619.7	7525.6	9094.1
35°	8330.6	8309.9	8167.5	7896.2	7696.1	7630.8	7426.2	7312.1	7079.3	7960.0	9795.4
37.5°	8849.5	8827.3	8830.2	8610.8	8372.1	8311.4	8176.4	8056.3	7675.3	8530.7	10557.4
40°	9436.6	9393.6	9377.3	9366.9	9215.7	9181.6	9110.4	8947.3	8422.5	9212.7	11309.1
42.5°	10320.2	10167.5	9841.3	9964.4	10114.1	10096.3	10154.1	9920.0	9252.8	10019.3	12043.0
45°	11172.7	10922.1	10358.7	10385.5	10713.1	10812.4	11245.4	11079.3	10152.7	10902.8	12802.1
47.5°	11561.2	11371.4	10892.5	10894.0	11218.6	11424.7	12373.6	12255.0	11098.6	11906.6	13728.7
50°	11995.5	11805.8	11375.8	11537.4	11820.6	12040.0	13463.3	13402.5	11998.5	13005.1	14839.1
52.5°	12470.0	12148.2	11875.5	12164.5	12561.8	12816.9	14554.4	14388.4	12824.2	14111.2	16115.6
55°	12475.8	12388.4	12595.9	12807.9	13402.5	13715.3	15697.5	15258.7	13497.4	15197.9	17154.9
57.5°	13186.1	13043.7	13484.1	13581.9	14358.8	14711.6	16834.6	16016.3	14182.3	16031.1	17715.3
60°	14126.0	14004.4	14364.7	14622.7	15541.8	16013.3	18048.9	16794.6	14720.5	16659.7	17688.6
62.5°	15749.4	15611.5	15607.1	15968.9	17206.8	17755.3	19411.4	17558.2	14934.0	16784.3	16934.0
65°	18126.0	17906.6	17492.9	17664.9	19506.2	20053.3	20934.0	18111.1	14652.3	16117.1	14990.4
67.5°	20438.8	20431.4	19922.8	20275.7	22542.5	22981.4	22668.6	18166.0	13773.1	13793.9	11541.9
70°	22744.2	22773.8	22687.8	23915.4	26644.9	27101.5	24515.9	17429.2	11796.8	9961.4	6914.7
72.5°	24570.7	24563.3	24996.2	28161.5	31968.8	31866.5	26072.6	15196.4	8469.9	5377.3	3304.7
75°	23387.6	23129.7	24419.5	30263.8	35071.8	34572.2	24748.6	10600.5	4395.9	2447.7	1779.1
77.5°	15254.2	15498.8	17392.1	25000.7	30677.4	30069.6	18157.1	4945.9	2071.2	1605.6	1289.8
80°	5524.1	5782.0	8143.8	14161.6	21135.6	21036.3	8941.5	2032.6	1401.0	1212.8	939.9
82.5°	1900.6	1995.6	3212.7	6289.1	11933.2	12378.0	3364.0	1154.9	1018.6	859.9	643.4
85°	745.7	853.9	1469.2	3025.9	6019.3	6063.7	1362.5	690.8	708.6	563.4	352.9
87.5°	283.2	343.9	702.8	1405.5	2748.7	2524.9	487.8	329.1	403.3	335.1	167.5
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°	6708.6	6708.6	6708.6	6708.6	6708.6	6708.6	6708.6	6708.6	6708.6	6708.6	6708.6
2.5°	6719.1	6750.2	6815.4	6859.9	6907.3	6920.7	6926.6	6938.4	6950.3	6945.9	6947.4
5°	6760.5	6821.4	6926.6	6971.1	6991.8	6968.1	6922.1	6885.1	6858.4	6843.6	6839.1
7.5°	6828.7	6914.7	7027.4	7020.0	6972.5	6867.3	6748.7	6659.7	6585.6	6558.9	6544.1
10°	6919.2	7020.0	7098.6	7014.1	6876.2	6693.8	6515.9	6378.0	6266.9	6223.9	6216.4
12.5°	7034.9	7137.1	7152.0	6972.5	6744.2	6495.1	6253.5	6071.2	5905.1	5851.7	5839.9
15°	7184.6	7281.0	7189.0	6899.9	6581.2	6246.1	5933.3	5685.7	5510.8	5445.5	5421.8
17.5°	7341.7	7433.7	7196.4	6779.8	6367.7	5951.1	5558.2	5304.7	5104.5	5028.9	5020.0
20°	7530.0	7571.5	7165.3	6607.8	6074.2	5568.5	5154.9	4916.2	4809.5	4756.1	4750.1
22.5°	7762.8	7718.2	7094.1	6375.0	5702.0	5126.8	4790.2	4679.0	4652.3	4640.5	4644.9
25°	8008.9	7872.5	6988.8	6071.2	5232.0	4684.9	4523.3	4554.4	4590.0	4585.6	4585.6
27.5°	8280.2	8029.7	6827.2	5667.9	4711.6	4323.2	4342.5	4456.6	4510.0	4508.5	4507.0
30°	8628.6	8207.6	6621.2	5183.1	4225.3	4068.2	4185.4	4324.7	4397.3	4394.4	4395.9
32.5°	9057.1	8403.2	6341.0	4641.9	3873.9	3879.9	4014.8	4152.7	4237.2	4229.8	4231.3
35°	9558.1	8622.7	5961.4	4108.2	3641.2	3730.2	3837.0	3933.3	4013.3	4003.0	3992.6
37.5°	10103.8	8837.6	5457.4	3630.8	3451.5	3590.8	3679.8	3696.1	3733.1	3706.4	3687.2
40°	10622.6	9002.2	4808.0	3239.5	3260.2	3472.2	3530.0	3464.8	3398.1	3389.2	3362.5
42.5°	11074.8	9057.1	4151.3	2926.6	3058.6	3347.7	3383.2	3246.8	3126.7	3070.4	3046.7
45°	11552.2	9076.3	3538.9	2664.2	2864.3	3236.5	3275.0	3092.6	2923.7	2802.1	2762.0
47.5°	12176.4	9215.7	3063.0	2470.0	2716.1	3162.3	3217.2	2969.6	2750.2	2576.8	2539.7
50°	12993.3	9491.4	2676.1	2321.7	2619.7	3113.4	3175.6	2849.5	2607.9	2398.8	2361.8
52.5°	13900.6	9745.0	2363.2	2201.6	2526.3	3027.4	3122.3	2763.5	2474.4	2234.2	2194.2
55°	14535.2	9550.8	2111.2	2077.1	2404.7	2904.4	3048.2	2690.9	2283.1	2074.1	2038.5
57.5°	14656.8	8886.6	1919.9	1948.1	2258.0	2750.2	2934.0	2529.2	2179.4	2004.4	1967.3
60°	14324.7	7961.5	1777.6	1829.5	2100.8	2556.0	2720.5	2415.1	2080.1	1930.4	1899.1
62.5°	13489.9	7014.1	1672.3	1722.7	1954.0	2358.8	2587.1	2295.1	1979.3	1845.8	1814.7
65°	11804.3	5888.8	1571.5	1627.9	1817.6	2188.3	2467.0	2183.8	1879.9	1777.6	1748.0
67.5°	8910.3	4410.7	1476.7	1527.1	1696.1	2040.0	2336.5	2074.1	1783.5	1718.3	1682.7
70°	5246.8	2762.0	1368.4	1421.8	1568.5	1885.8	2197.1	1954.0	1663.5	1633.8	1587.8
72.5°	2441.8	1662.0	1245.4	1297.3	1408.4	1679.8	2017.8	1796.9	1521.1	1455.9	1393.6
75°	1457.4	1215.7	1100.1	1146.0	1224.6	1460.3	1792.4	1636.7	1386.2	1300.3	1235.0
77.5°	1089.7	929.6	939.9	988.8	1052.6	1278.0	1587.8	1510.8	1282.5	1215.7	1171.2
80°	784.3	705.7	766.5	819.9	886.6	1162.4	1521.1	1396.6	1159.4	1070.4	1028.9
82.5°	523.3	507.0	576.7	631.6	696.8	1017.1	1429.2	1223.1	990.3	877.7	785.8
85°	289.1	305.5	388.5	412.1	468.5	716.1	1171.2	983.0	745.7	600.5	573.7
87.5°	120.1	140.8	209.0	201.6	249.1	427.0	770.9	593.0	474.4	354.4	275.7
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)