

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: P382651

Luminaire Tested: **GAN-SA0B-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382651
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-SA0B-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 53008.8 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

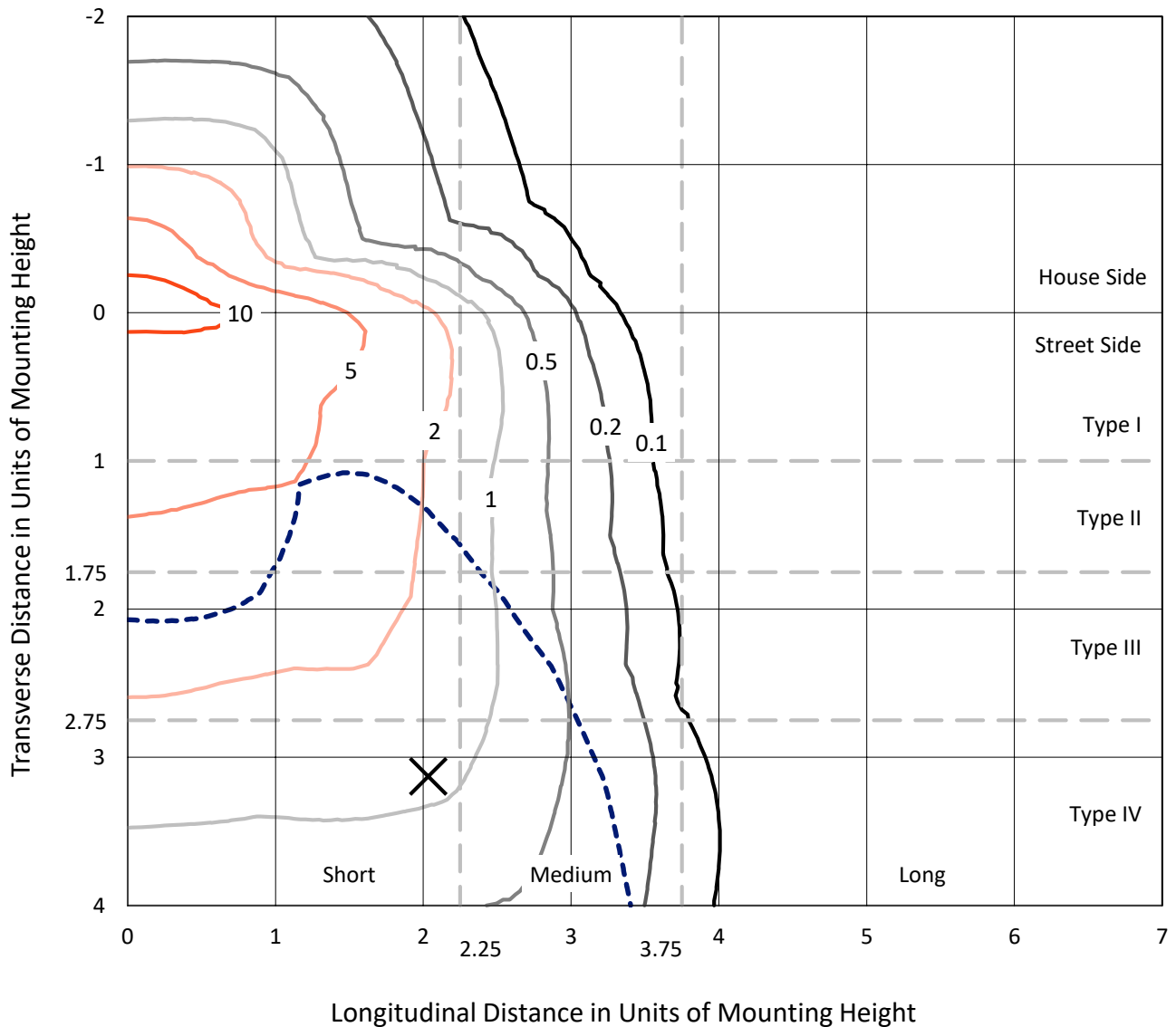
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

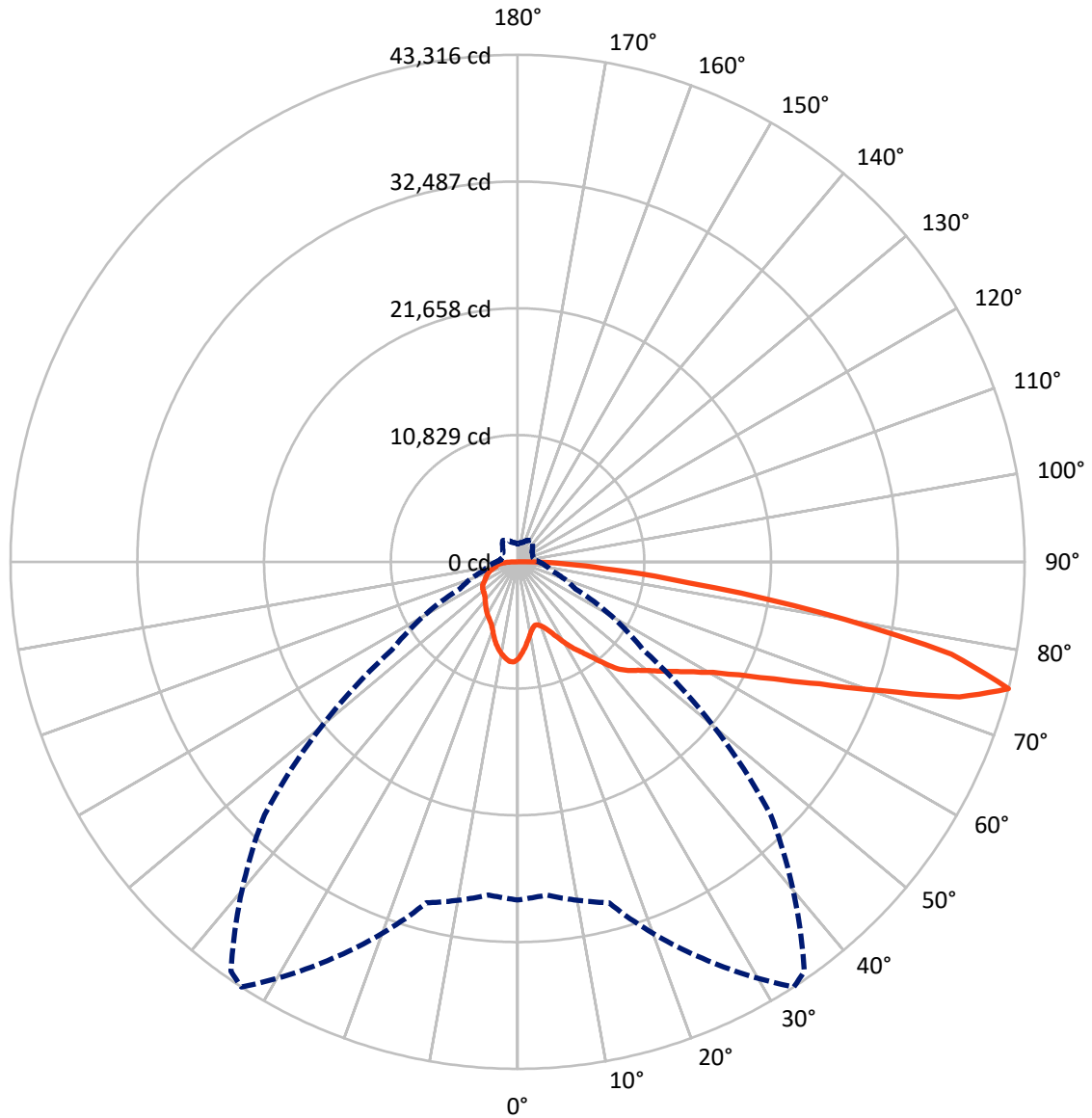
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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	11382.4	0.0	11382.4
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	41626.4	0.0	41626.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	53008.8	0.0	53008.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	749.3	1.4
10°-20°	2029.5	3.8
20°-30°	3314.5	6.3
30°-40°	4936.0	9.3
40°-50°	7079.6	13.4
50°-60°	9719.1	18.3
60°-70°	12167.9	23.0
70°-80°	11007.8	20.8
80°-90°	2005.1	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°	53008.8	100.0
0°-180°	53008.8	100.0

Coefficient of Utilization



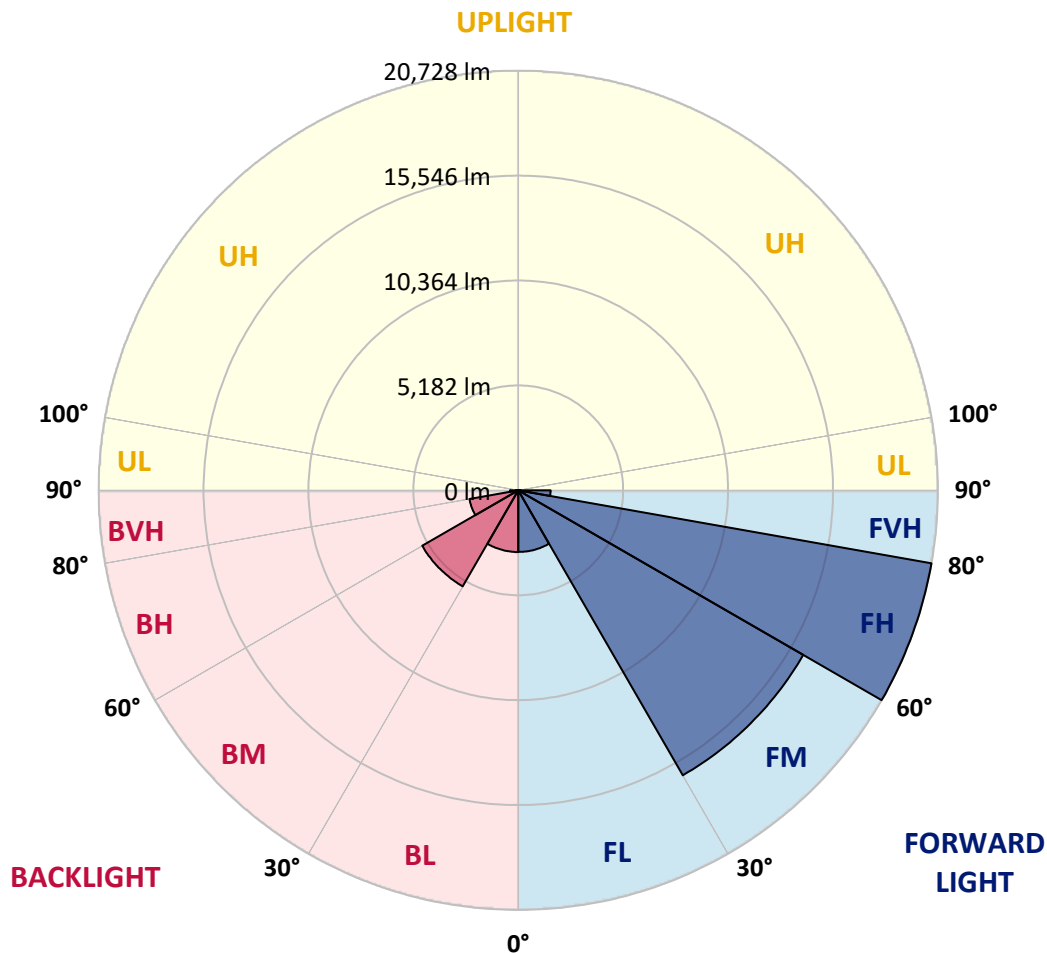
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3044.5	5.7			
FM (30°-60°)	16256.7	30.7			
FH (60°-80°)	20728.3	39.1			G5
FVH (80°-90°)	1596.9	3.0			G5
BL (0°-30°)	3048.7	5.8	B4/5000		
BM (30°-60°)	5478.0	10.3	B4/8500		
BH (60°-80°)	2447.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	408.2	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°	33°	35°	45°	55°	65°	75°	85°
0°	8285.6	8285.6	8285.6	8285.6	8285.6	8285.6	8285.6	8285.6	8285.6	8285.6	8285.6
2.5°	7694.1	7664.9	7719.7	7727.1	7774.7	7793.0	7858.9	7961.5	8045.7	8142.8	8230.6
5°	6996.5	6976.4	7053.3	7108.2	7212.6	7256.5	7412.1	7630.0	7824.2	8043.9	8243.5
7.5°	6333.7	6322.7	6408.8	6533.2	6654.1	6714.5	6983.7	7300.4	7624.5	7979.8	8285.6
10°	5775.2	5771.5	5853.9	5976.6	6154.2	6222.0	6569.8	6987.4	7441.5	7930.4	8357.0
12.5°	5462.0	5474.9	5513.4	5615.8	5780.7	5848.4	6234.8	6725.5	7287.7	7913.9	8461.3
15°	5539.0	5559.1	5493.1	5489.5	5606.7	5659.8	6022.4	6538.7	7177.8	7941.4	8613.4
17.5°	5866.7	5870.4	5696.4	5586.6	5658.0	5685.4	5956.5	6432.5	7113.7	8003.6	8803.8
20°	6328.2	6319.0	6011.4	5828.3	5866.7	5874.1	6049.8	6434.4	7108.2	8111.6	9050.9
22.5°	6939.8	6872.0	6458.1	6209.1	6200.0	6189.0	6289.7	6569.8	7188.8	8287.4	9345.8
25°	7738.1	7674.0	7104.5	6764.0	6690.7	6663.3	6677.9	6859.2	7348.0	8476.0	9675.3
27.5°	8626.1	8514.4	7965.1	7483.6	7331.6	7293.2	7205.2	7267.5	7522.1	8657.2	10067.2
30°	9369.6	9309.1	8829.4	8258.1	8078.7	8023.7	7793.0	7725.2	7772.8	8904.5	10561.6
32.5°	9785.3	9744.9	9453.8	8992.3	8825.8	8748.8	8422.9	8287.4	8175.7	9294.5	11231.8
35°	10288.8	10263.1	10087.4	9752.3	9505.0	9424.5	9171.8	9030.8	8743.3	9831.0	12097.8
37.5°	10929.7	10902.2	10905.8	10634.8	10340.0	10264.9	10098.3	9950.0	9479.4	10536.0	13039.1
40°	11654.7	11601.6	11581.5	11568.7	11381.9	11339.8	11251.9	11050.5	10402.3	11378.2	13967.3
42.5°	12746.1	12557.4	12154.6	12306.6	12491.5	12469.5	12541.0	12251.6	11427.7	12374.3	14873.7
45°	13798.9	13489.5	12793.7	12826.6	13231.2	13353.9	13888.6	13683.6	12539.1	13465.6	15811.3
47.5°	14278.7	14044.3	13452.9	13454.6	13855.7	14110.2	15282.0	15135.6	13707.4	14705.3	16955.7
50°	14815.1	14580.8	14049.8	14249.3	14599.1	14870.1	16627.9	16552.9	14818.8	16062.1	18327.2
52.5°	15401.1	15003.8	14666.8	15023.9	15514.6	15829.6	17975.6	17770.5	15838.7	17428.0	19903.7
55°	15408.4	15300.4	15556.8	15818.6	16552.9	16939.2	19387.3	18845.3	16670.0	18770.2	21187.2
57.5°	16285.5	16109.7	16653.6	16774.4	17733.9	18169.6	20791.8	19781.0	17516.0	19799.3	21879.4
60°	17446.4	17296.2	17741.2	18059.8	19195.1	19777.3	22291.4	20742.3	18180.6	20575.7	21846.5
62.5°	19451.4	19281.1	19275.6	19722.4	21251.3	21928.8	23974.1	21685.3	18444.4	20729.4	20914.5
65°	22386.6	22115.6	21604.7	21817.1	24091.3	24767.0	25854.6	22368.3	18096.4	19905.5	18513.9
67.5°	25243.1	25233.9	24605.9	25041.7	27841.3	28383.3	27997.0	22436.0	17010.6	17036.2	14254.8
70°	28090.4	28127.0	28020.8	29537.0	32907.9	33471.9	30278.5	21526.0	14569.8	12302.9	8540.1
72.5°	30346.3	30337.1	30871.8	34781.1	39483.3	39357.0	32201.1	18768.4	10460.9	6641.3	4081.5
75°	28885.1	28566.5	30159.5	37377.5	43315.7	42698.6	30565.9	13092.2	5429.2	3023.1	2197.2
77.5°	18839.8	19142.0	21480.2	30877.3	37888.4	37137.6	22425.1	6108.4	2558.0	1983.1	1593.0
80°	6822.6	7141.2	10058.0	17490.4	26103.6	25981.0	11043.1	2510.4	1730.3	1497.8	1160.9
82.5°	2347.4	2464.6	3967.9	7767.3	14738.2	15287.5	4154.7	1426.4	1258.0	1062.1	794.7
85°	921.0	1054.7	1814.6	3737.2	7434.1	7489.1	1682.7	853.3	875.3	695.8	435.8
87.5°	349.7	424.8	867.9	1735.8	3394.8	3118.3	602.4	406.5	498.0	413.8	206.9
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°	8285.6	8285.6	8285.6	8285.6	8285.6	8285.6	8285.6	8285.6	8285.6	8285.6	8285.6
2.5°	8298.4	8336.9	8417.4	8472.3	8530.9	8547.4	8554.8	8569.4	8584.0	8578.5	8580.4
5°	8349.6	8424.7	8554.8	8609.6	8635.3	8606.0	8549.3	8503.4	8470.5	8452.2	8446.7
7.5°	8433.9	8540.1	8679.2	8670.1	8611.5	8481.5	8335.0	8225.1	8133.6	8100.6	8082.3
10°	8545.6	8670.1	8767.2	8662.7	8492.5	8267.3	8047.5	7877.3	7739.9	7686.9	7677.6
12.5°	8688.4	8814.8	8833.0	8611.5	8329.5	8021.9	7723.5	7498.2	7293.2	7227.2	7212.6
15°	8873.4	8992.3	8878.9	8521.8	8128.1	7714.2	7327.9	7022.1	6806.1	6725.5	6696.2
17.5°	9067.4	9181.0	8888.0	8373.5	7864.4	7349.9	6864.7	6551.6	6304.3	6211.0	6200.0
20°	9300.0	9351.2	8849.5	8161.1	7501.8	6877.5	6366.6	6071.8	5940.0	5874.1	5866.7
22.5°	9587.5	9532.5	8761.7	7873.6	7042.3	6331.8	5916.2	5778.9	5745.9	5731.3	5736.7
25°	9891.5	9722.9	8631.6	7498.2	6461.9	5786.1	5586.6	5625.1	5668.9	5663.5	5663.5
27.5°	10226.5	9917.1	8432.1	7000.2	5819.1	5339.4	5363.2	5504.1	5570.1	5568.2	5566.5
30°	10656.8	10136.8	8177.5	6401.4	5218.5	5024.5	5169.1	5341.2	5430.9	5427.3	5429.2
32.5°	11186.0	10378.5	7831.4	5733.0	4784.6	4791.9	4958.5	5128.8	5233.2	5224.0	5225.9
35°	11804.9	10649.5	7362.7	5073.9	4497.1	4607.0	4738.8	4857.8	4956.7	4943.9	4931.1
37.5°	12478.7	10914.9	6740.1	4484.3	4262.8	4434.8	4544.7	4564.9	4610.6	4577.6	4553.9
40°	13119.5	11118.2	5938.2	4000.9	4026.5	4288.4	4359.7	4279.2	4196.8	4185.8	4152.8
42.5°	13678.1	11186.0	5127.0	3614.5	3777.5	4134.6	4178.5	4010.0	3861.7	3792.1	3762.8
45°	14267.7	11209.8	4370.7	3290.4	3537.6	3997.2	4044.8	3819.6	3610.9	3460.7	3411.2
47.5°	15038.5	11381.9	3783.0	3050.5	3354.5	3905.7	3973.4	3667.6	3396.6	3182.4	3136.6
50°	16047.5	11722.5	3305.0	2867.5	3235.5	3845.2	3922.2	3519.3	3220.8	2962.7	2916.9
52.5°	17168.0	12035.6	2918.7	2719.1	3120.1	3739.0	3856.2	3413.1	3056.0	2759.4	2710.0
55°	17951.8	11795.7	2607.4	2565.3	2970.0	3587.0	3764.7	3323.4	2819.8	2561.7	2517.7
57.5°	18101.9	10975.4	2371.3	2406.0	2788.7	3396.6	3623.7	3123.8	2691.7	2475.6	2429.8
60°	17691.8	9832.9	2195.5	2259.6	2594.6	3156.7	3360.0	2982.8	2569.0	2384.0	2345.6
62.5°	16660.8	8662.7	2065.4	2127.7	2413.4	2913.2	3195.2	2834.5	2444.5	2279.7	2241.2
65°	14578.9	7273.0	1941.0	2010.5	2244.8	2702.6	3046.9	2697.2	2321.8	2195.5	2158.9
67.5°	11004.7	5447.4	1823.8	1886.0	2094.8	2519.6	2885.7	2561.7	2202.7	2122.2	2078.3
70°	6480.1	3411.2	1690.1	1756.0	1937.2	2329.1	2713.6	2413.4	2054.4	2017.8	1961.1
72.5°	3015.8	2052.7	1538.1	1602.2	1739.5	2074.6	2492.1	2219.2	1878.7	1798.1	1721.2
75°	1799.9	1501.5	1358.7	1415.4	1512.5	1803.6	2213.7	2021.5	1712.1	1605.8	1525.3
77.5°	1345.8	1148.0	1160.9	1221.4	1300.1	1578.4	1961.1	1865.9	1583.9	1501.5	1446.5
80°	968.6	871.6	946.6	1012.6	1094.9	1435.5	1878.7	1724.9	1431.9	1322.1	1270.7
82.5°	646.4	626.2	712.3	780.1	860.6	1256.1	1765.2	1510.6	1223.1	1083.9	970.5
85°	357.1	377.2	479.7	509.0	578.6	884.4	1446.5	1214.0	921.0	741.6	708.6
87.5°	148.3	173.9	258.2	249.0	307.6	527.3	952.1	732.4	585.9	437.6	340.6
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)