

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: P191457

Luminaire Tested: **GAN-AF-09-LED-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54446.5 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 501
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

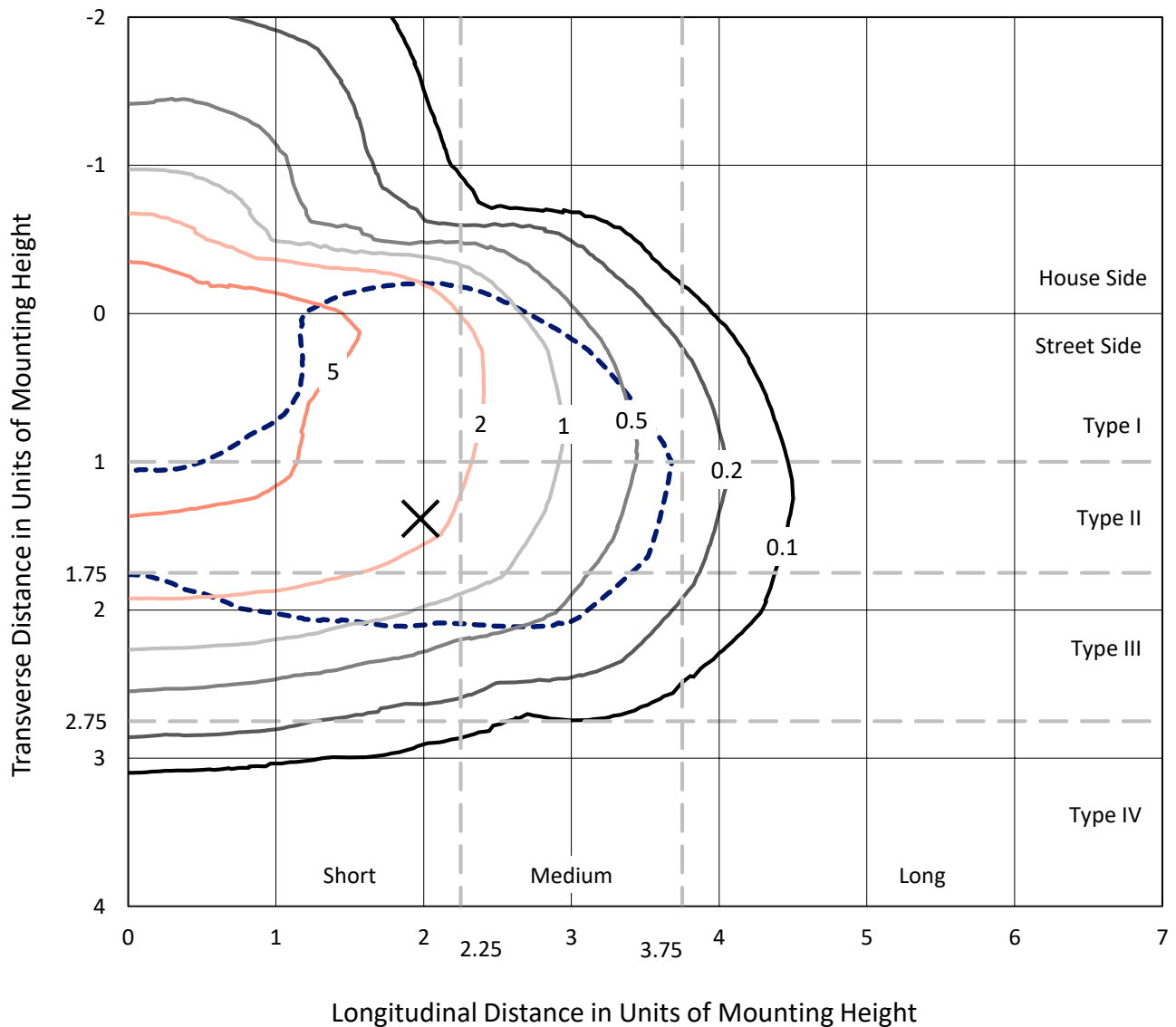


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

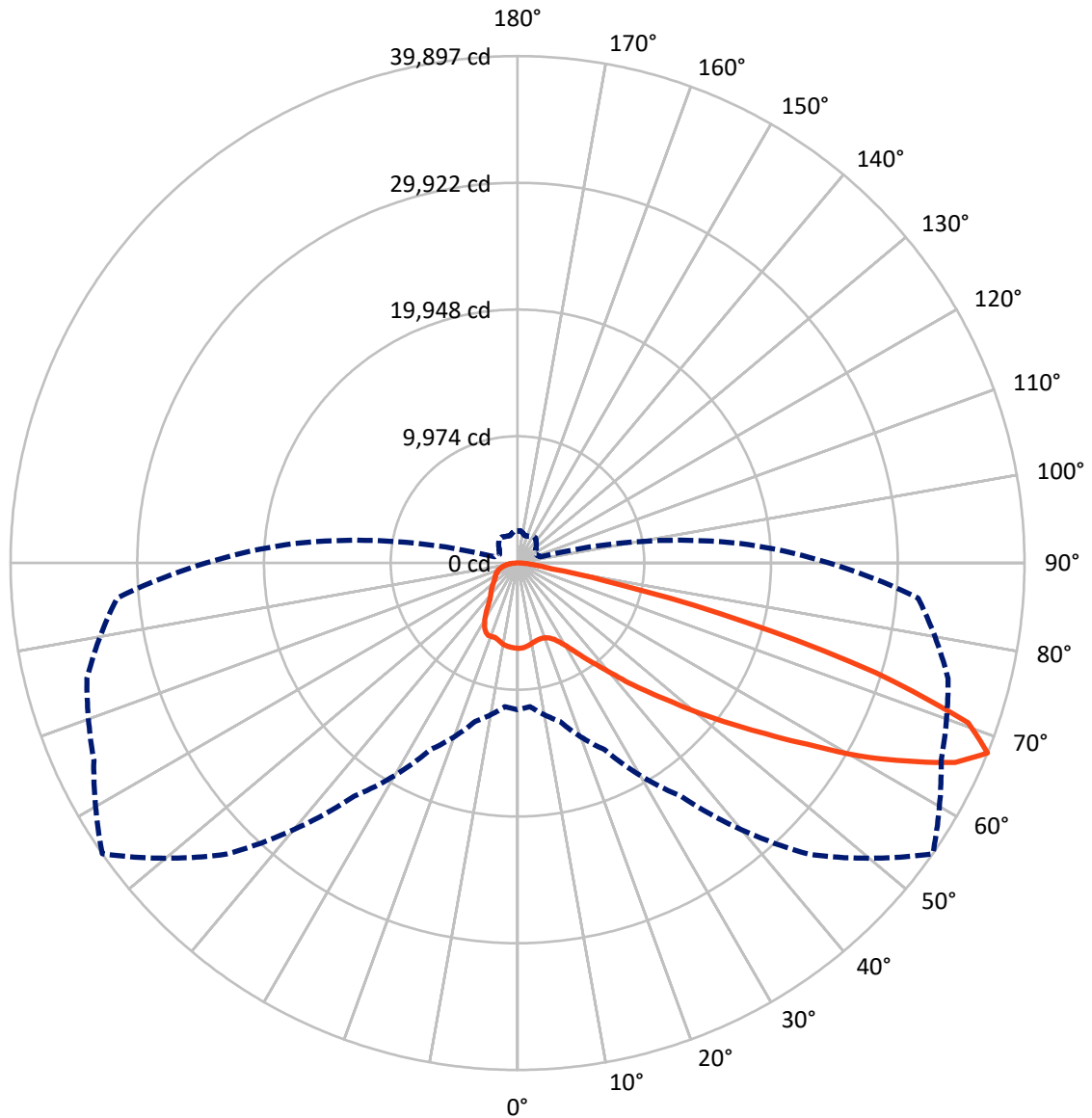


Based on 30 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11761.6	0.0	11761.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	42684.9	0.0	42684.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	54446.5	0.0	54446.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	626.7	1.2
10°-20°	1774.8	3.3
20°-30°	2973.0	5.5
30°-40°	4889.0	9.0
40°-50°	8229.6	15.1
50°-60°	12952.8	23.8
60°-70°	15457.8	28.4
70°-80°	6637.9	12.2
80°-90°	905.0	1.7
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°	54446.5	100.0
0°-180°	54446.5	100.0



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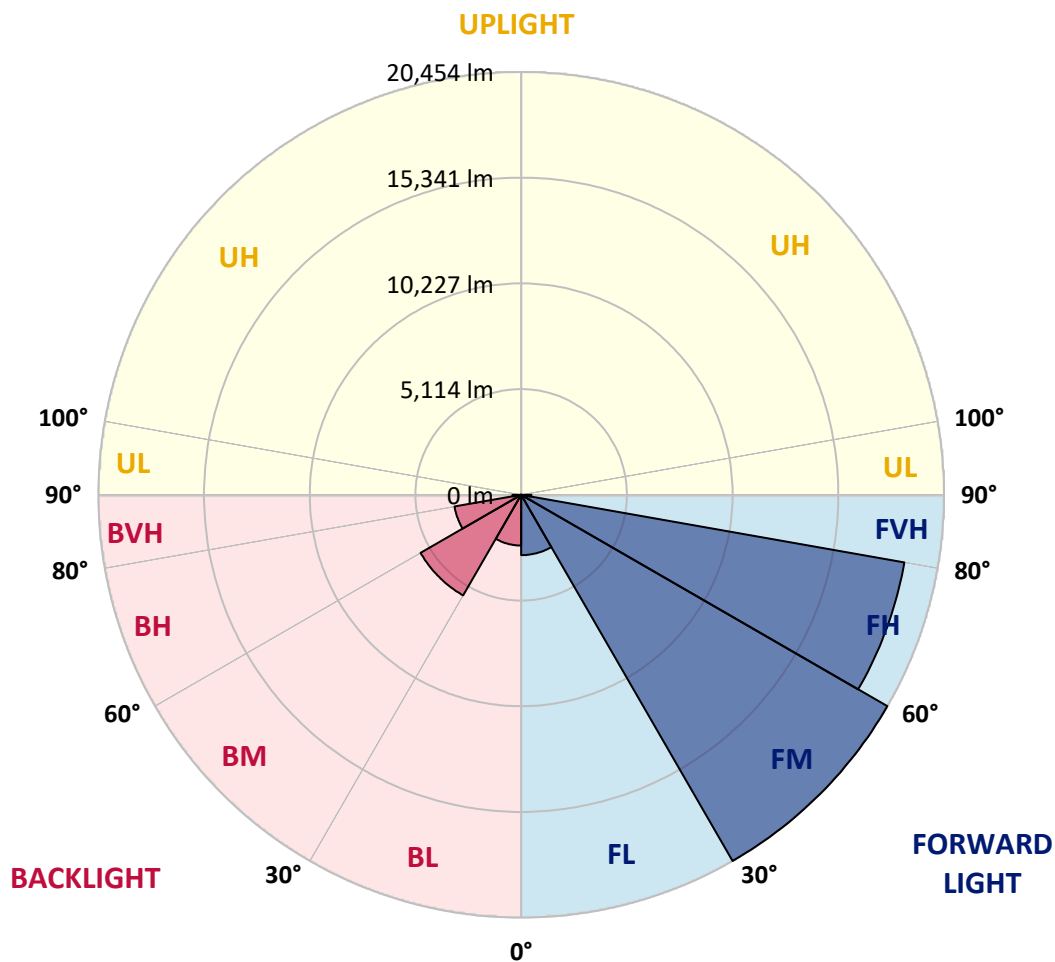
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2918.5	5.4			
FM	(30°-60°)	20454.1	37.6			
FH	(60°-80°)	18822.4	34.6			G5
FVH	(80°-90°)	489.9	0.9			G3/500
BL	(0°-30°)	2456.1	4.5	B3/2500		
BM	(30°-60°)	5617.2	10.3	B4/8500		
BH	(60°-80°)	3273.2	6.0	B4/5000		G4/5000
BVH	(80°-90°)	415.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6713.8	6713.8	6713.8	6713.8	6713.8	6713.8	6713.8	6713.8	6713.8	6713.8	6713.8
2.5°	6656.0	6658.6	6663.9	6684.9	6703.3	6698.1	6700.7	6690.2	6687.5	6671.8	6687.5
5°	6571.8	6579.7	6582.4	6616.5	6637.6	6642.8	6635.0	6621.8	6606.0	6590.3	6598.1
7.5°	6379.8	6400.9	6403.6	6450.8	6485.1	6529.8	6532.4	6535.0	6527.1	6516.6	6532.4
10°	6258.9	6264.1	6261.5	6295.8	6322.0	6372.0	6400.9	6450.8	6471.9	6477.2	6487.7
12.5°	6251.0	6245.7	6237.9	6237.9	6230.0	6251.0	6303.6	6374.6	6424.5	6440.4	6453.5
15°	6335.1	6332.6	6306.3	6266.8	6216.8	6201.0	6245.7	6324.6	6390.4	6424.5	6437.7
17.5°	6524.5	6508.7	6466.7	6377.3	6269.5	6227.3	6232.6	6298.3	6374.6	6419.3	6432.4
20°	6871.7	6871.7	6782.3	6613.9	6422.0	6322.0	6274.7	6314.2	6387.7	6448.3	6466.7
22.5°	7471.2	7476.5	7326.6	7050.5	6727.0	6513.9	6395.7	6387.7	6474.6	6542.9	6564.0
25°	8320.7	8299.6	8089.2	7694.7	7203.0	6850.6	6645.5	6598.1	6671.8	6748.0	6774.4
27.5°	9309.5	9233.2	8983.3	8507.4	7871.0	7355.5	7039.9	6963.6	7034.7	7121.5	7147.8
30°	10287.7	10208.8	9911.7	9391.0	8683.5	8031.4	7579.0	7455.5	7555.4	7679.0	7694.7
32.5°	11266.1	11266.1	10934.6	10327.2	9556.6	8838.7	8296.9	8149.7	8315.4	8465.3	8499.5
35°	12436.3	12441.5	12120.7	11389.6	10561.3	9801.2	9204.3	9096.5	9346.3	9451.5	9533.0
37.5°	13874.8	13903.7	13490.8	12607.3	11699.9	10900.5	10190.4	10043.1	10293.0	10579.7	10842.7
40°	15429.0	15465.8	15010.9	13922.2	13014.8	12178.5	11410.7	11145.0	11560.6	12107.5	12446.8
42.5°	16912.1	17101.5	16662.3	15542.1	14566.4	13701.2	12922.8	12536.3	13056.9	13882.7	14177.2
45°	19055.4	19192.2	18426.9	17411.9	16494.1	15526.2	14495.4	14087.8	14816.2	15857.7	15918.1
47.5°	20483.5	20380.9	19991.6	19360.5	18779.3	17874.7	16323.1	15876.1	16843.8	18069.3	17730.1
50°	21243.4	21275.0	21222.4	21259.3	21280.2	20712.2	18563.7	17950.9	19105.4	20586.0	19804.9
52.5°	21953.4	21743.1	21916.7	22779.3	23820.6	23610.2	21001.5	20362.4	21530.0	23378.8	21998.1
55°	21937.7	21616.9	22182.3	23704.9	25963.9	26205.9	23739.1	23002.8	24094.2	26374.1	24322.9
57.5°	21161.9	21177.7	22048.2	24041.6	27457.6	28646.3	26915.9	25811.4	26813.4	29408.9	26445.2
60°	20094.2	20238.9	21493.3	23986.4	28654.2	30647.6	30813.2	28838.3	29477.4	32167.6	28201.8
62.5°	18371.7	18524.2	20254.6	23413.0	28472.7	32575.3	34337.2	32272.8	32262.2	33840.1	28717.3
65°	15655.1	15610.4	17427.6	21269.7	26950.0	34000.5	37837.4	35241.8	34360.8	33866.4	27681.2
67.5°	11544.8	11344.9	12904.4	16199.6	22400.6	32404.3	39896.5	36788.2	35076.2	31639.1	24514.9
70°	5990.7	5790.8	7053.1	9459.3	14732.1	25290.7	37616.6	35988.6	33495.6	26521.4	19205.4
72.5°	2561.4	2527.2	3040.0	4149.8	7126.7	14587.5	29495.8	31149.9	28741.0	19760.2	13204.1
75°	1722.5	1712.0	1904.0	2261.6	3205.7	5919.6	18458.5	22111.3	21027.8	12252.2	7426.5
77.5°	1351.7	1338.5	1451.7	1625.2	2077.5	2335.3	8191.8	11870.8	10987.3	5333.3	3250.4
80°	1057.2	1046.7	1117.7	1212.3	1493.7	1472.6	2695.6	4723.1	3655.4	2043.3	1580.5
82.5°	833.6	833.6	891.5	894.2	1059.8	1004.5	1407.0	2080.2	1825.0	1191.3	967.8
85°	762.6	762.6	823.2	668.0	691.6	633.8	873.1	1233.4	1157.1	489.2	420.7
87.5°	383.9	373.5	691.6	591.7	376.0	336.7	426.1	597.0	641.7	270.9	210.4
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°	6713.8	6713.8	6713.8	6713.8	6713.8	6713.8	6713.8	6713.8	6713.8	6713.8
2.5°	6682.3	6679.7	6684.9	6687.5	6708.6	6737.6	6750.7	6769.1	6779.6	6774.4
5°	6603.5	6608.7	6629.7	6645.5	6682.3	6729.6	6756.0	6776.9	6795.4	6787.5
7.5°	6537.7	6550.8	6582.4	6595.5	6616.5	6629.7	6627.1	6635.0	6650.7	6632.3
10°	6500.9	6516.6	6540.3	6521.9	6471.9	6400.9	6335.1	6301.0	6311.5	6298.3
12.5°	6464.0	6485.1	6466.7	6379.8	6240.5	6148.4	6098.5	6103.7	6127.4	6132.7
15°	6443.0	6450.8	6372.0	6208.9	6066.9	6053.8	6080.1	6074.8	6077.5	6077.5
17.5°	6443.0	6422.0	6274.7	6111.6	6051.2	6027.4	5946.0	5843.4	5798.7	5782.9
20°	6477.2	6422.0	6243.2	6135.4	6003.8	5801.4	5585.7	5396.4	5312.2	5288.6
22.5°	6579.7	6485.1	6332.6	6145.8	5772.4	5433.1	5091.2	4865.2	4712.6	4686.2
25°	6787.5	6682.3	6508.7	6006.5	5404.2	4920.3	4531.2	4278.7	4126.2	4105.1
27.5°	7150.4	7082.0	6603.5	5698.8	4915.1	4397.1	4036.8	3842.1	3729.1	3721.2
30°	7697.4	7663.2	6556.1	5243.9	4312.9	3889.5	3715.9	3602.8	3518.6	3516.0
32.5°	8570.5	8294.4	6400.9	4688.9	3763.2	3529.2	3458.2	3389.8	3324.1	3324.1
35°	9693.4	8804.5	6106.4	4094.6	3429.2	3329.3	3239.9	3132.1	3045.3	3040.0
37.5°	11013.6	9120.1	5577.7	3615.9	3271.5	3195.2	3063.7	2903.3	2750.7	2724.4
40°	12346.9	9214.7	4833.5	3321.4	3171.6	3061.1	2900.7	2711.3	2564.0	2556.1
42.5°	13569.7	9033.4	4044.6	3119.0	3071.6	2924.3	2756.0	2587.8	2472.0	2469.4
45°	14595.4	8562.6	3381.9	2927.0	2966.4	2800.7	2650.9	2514.1	2424.7	2406.3
47.5°	15560.5	7897.3	2916.4	2724.4	2861.2	2732.3	2606.2	2477.3	2390.4	2377.3
50°	16680.7	7179.4	2590.3	2527.2	2769.1	2708.7	2642.9	2508.8	2364.1	2348.4
52.5°	18037.7	6558.6	2335.3	2353.7	2698.1	2740.3	2737.6	2598.2	2345.7	2324.8
55°	19552.5	5869.7	2143.3	2211.6	2669.3	2798.1	2761.3	2682.4	2361.6	2330.0
57.5°	21043.6	5064.9	2009.2	2103.8	2627.1	2792.9	2648.2	2535.1	2398.4	2353.7
60°	22161.2	3984.1	1906.6	2009.2	2535.1	2706.0	2524.6	2374.7	2390.4	2356.3
62.5°	22234.9	3079.5	1783.0	1927.6	2395.8	2619.3	2443.1	2303.7	2424.7	2393.1
65°	20927.8	2327.3	1664.6	1830.4	2245.9	2564.0	2364.1	2264.2	2495.7	2461.5
67.5°	17619.6	1872.4	1564.7	1730.4	2095.9	2448.3	2293.1	2227.5	2558.8	2498.3
70°	12720.3	1596.3	1467.4	1609.4	1961.8	2316.9	2230.0	2161.7	2387.9	2293.1
72.5°	7831.5	1383.2	1356.9	1449.0	1859.2	2180.1	2135.4	2038.1	2151.2	2075.0
75°	3910.5	1199.2	1233.4	1291.3	1714.7	2024.9	1977.6	1880.3	1896.0	1880.3
77.5°	1872.4	1025.6	1088.7	1133.4	1527.9	1848.8	1798.8	1698.8	1680.4	1683.1
80°	1186.0	857.3	917.8	949.4	1364.8	1643.6	1593.7	1493.7	1704.1	1580.5
82.5°	741.6	696.9	712.7	770.5	1188.7	1430.6	1364.8	1275.4	1535.8	1215.0
85°	410.2	486.5	507.6	557.5	915.1	1196.5	1130.8	1017.7	912.6	896.7
87.5°	244.6	289.3	297.2	334.0	615.4	865.2	765.3	725.8	602.2	599.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)