

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: P194797

Luminaire Tested: **GAN-AF-09-LED-U-T3-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194797
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-T3-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53225 lumens
Efficiency: N/A
Efficacy: 106.2 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

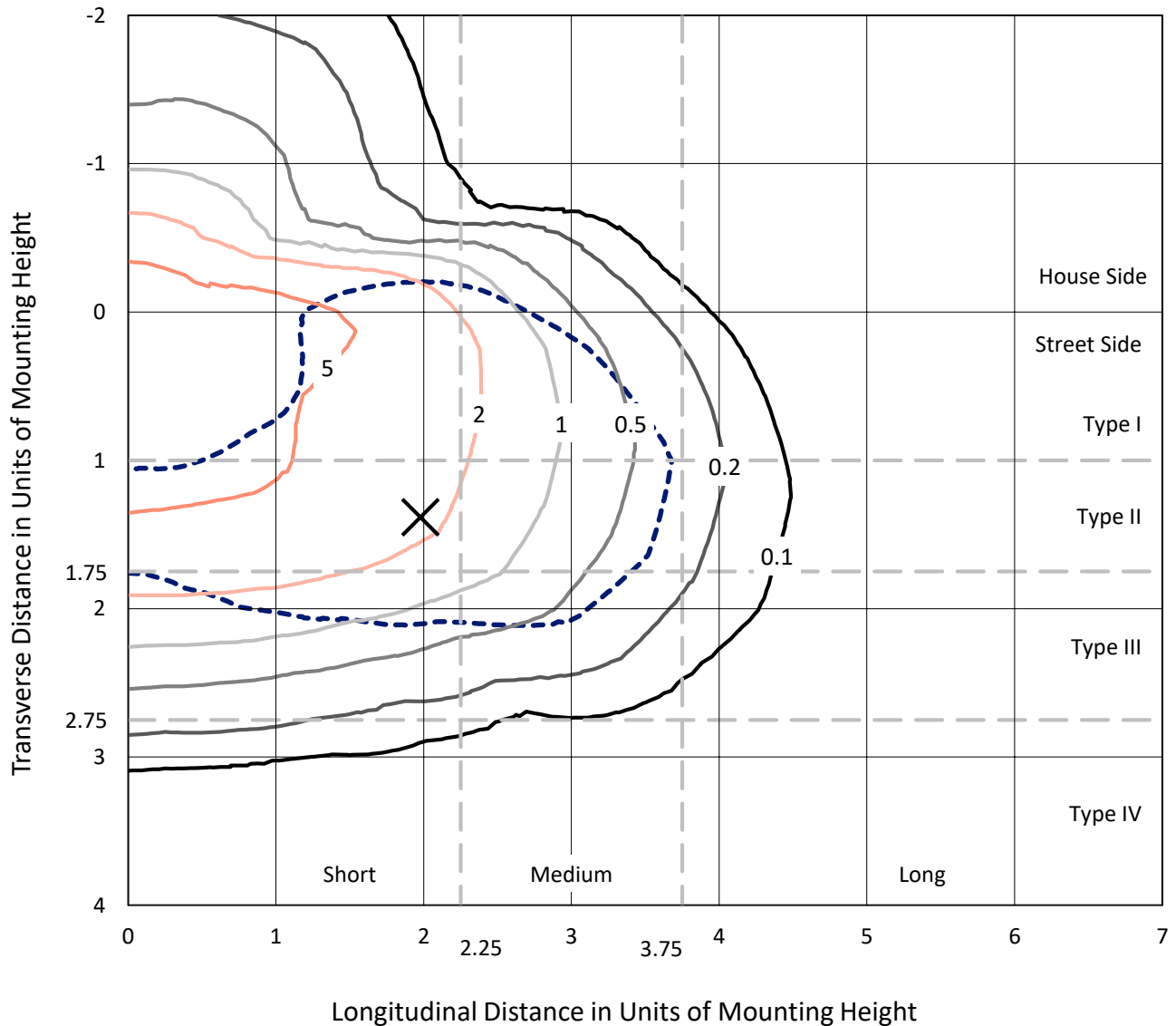
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

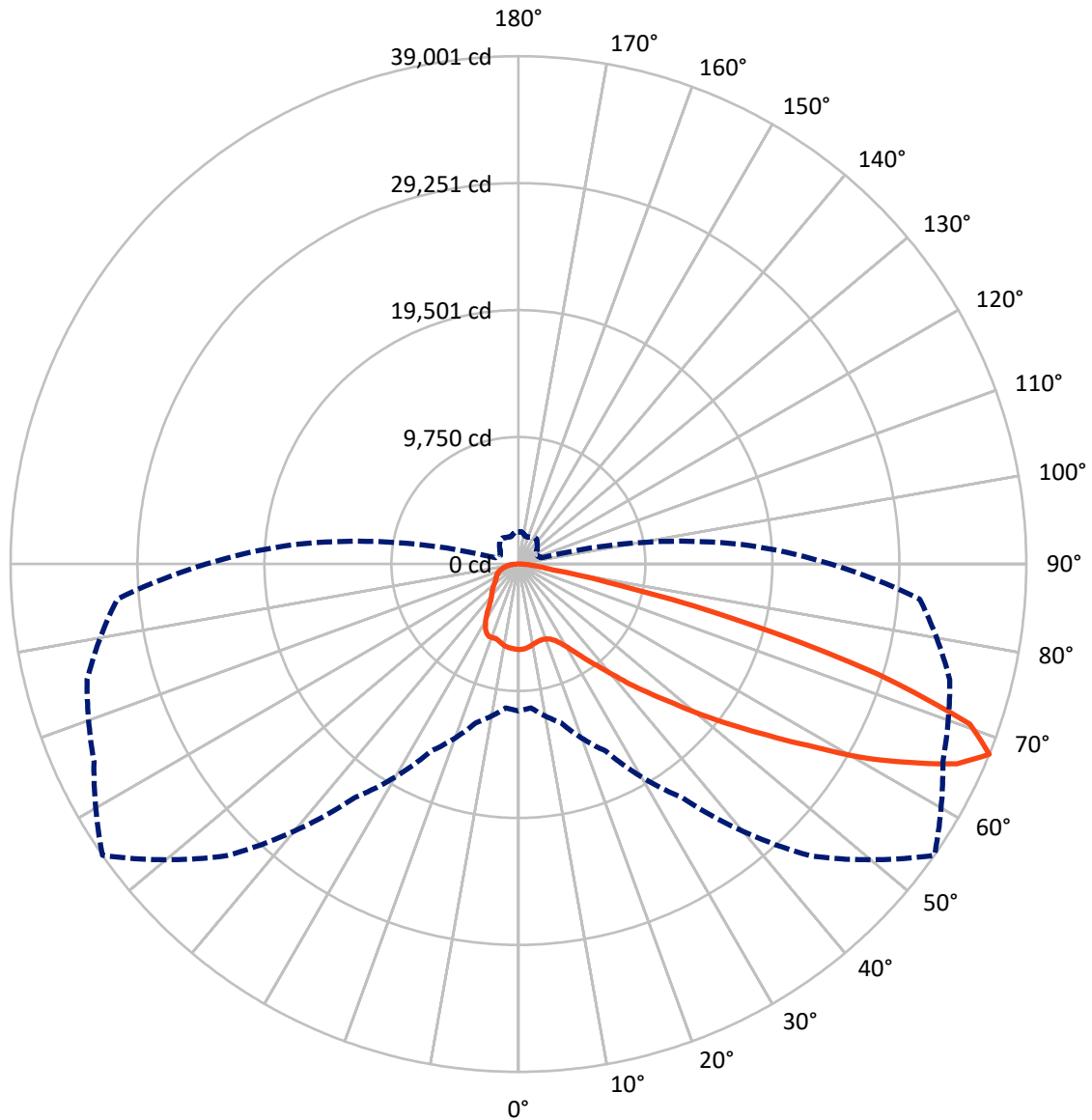
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 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	11497.7	0.0	11497.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	41727.3	0.0	41727.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	53225.0	0.0	53225.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.6	1.2
10°-20°	1735.0	3.3
20°-30°	2906.3	5.5
30°-40°	4779.3	9.0
40°-50°	8045.0	15.1
50°-60°	12662.2	23.8
60°-70°	15111.0	28.4
70°-80°	6488.9	12.2
80°-90°	884.7	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°	53225.0	100.0
0°-180°	53225.0	100.0



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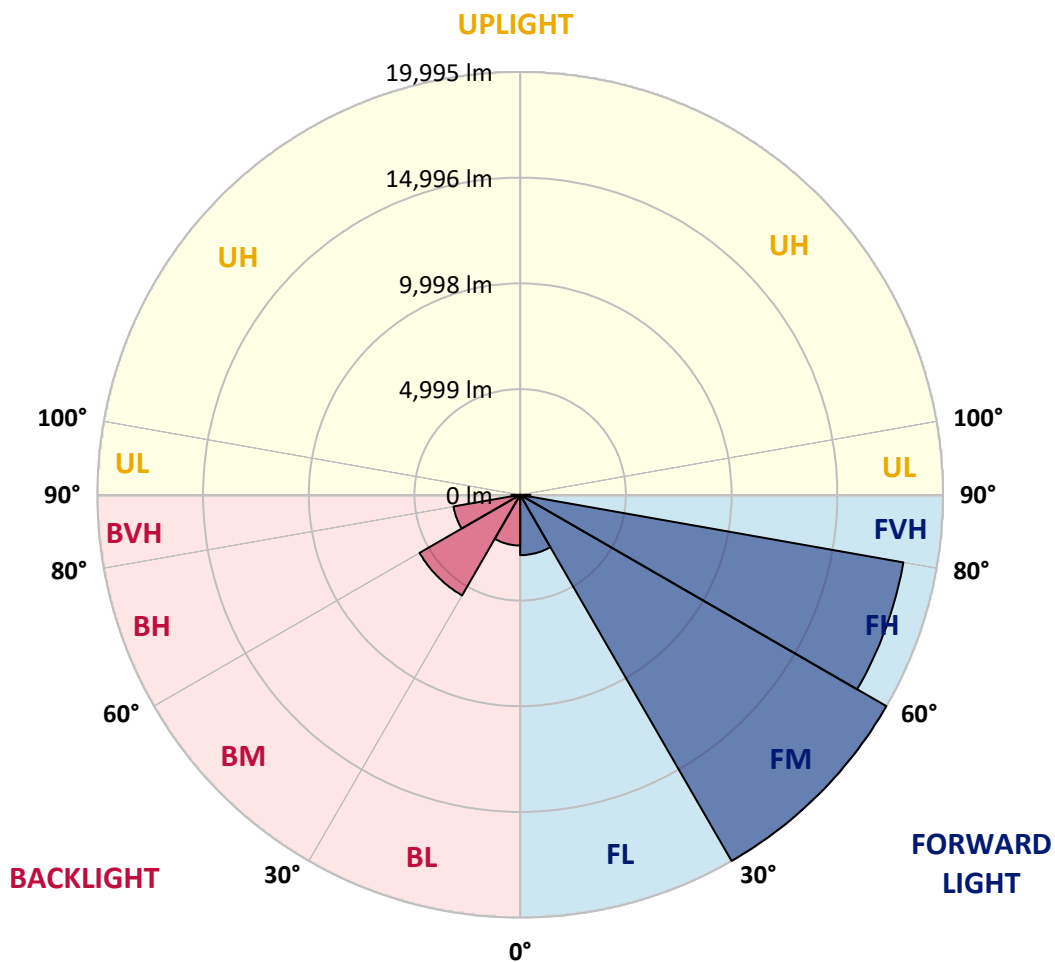
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2853.0	5.4			
FM	(30°-60°)	19995.2	37.6			
FH	(60°-80°)	18400.1	34.6			G5
FVH	(80°-90°)	478.9	0.9			G3/500
BL	(0°-30°)	2401.0	4.5	B3/2500		
BM	(30°-60°)	5491.2	10.3	B4/8500		
BH	(60°-80°)	3199.8	6.0	B4/5000		G4/5000
BVH	(80°-90°)	405.8	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°	6563.2	6563.2	6563.2	6563.2	6563.2	6563.2	6563.2	6563.2	6563.2	6563.2	6563.2
2.5°	6506.7	6509.2	6514.4	6534.9	6552.9	6547.8	6550.4	6540.1	6537.5	6522.1	6537.5
5°	6424.4	6432.1	6434.7	6468.1	6488.7	6493.8	6486.1	6473.2	6457.8	6442.4	6450.1
7.5°	6236.7	6257.3	6259.9	6306.1	6339.6	6383.3	6385.8	6388.4	6380.7	6370.4	6385.8
10°	6118.5	6123.6	6121.0	6154.5	6180.2	6229.0	6257.3	6306.1	6326.7	6331.9	6342.1
12.5°	6110.8	6105.6	6097.9	6097.9	6090.2	6110.8	6162.2	6231.6	6280.4	6295.9	6308.7
15°	6193.0	6190.5	6164.8	6126.2	6077.3	6061.9	6105.6	6182.7	6247.0	6280.4	6293.3
17.5°	6378.1	6362.7	6321.6	6234.2	6128.8	6087.6	6092.8	6157.0	6231.6	6275.3	6288.1
20°	6717.5	6717.5	6630.1	6465.5	6277.9	6180.2	6133.9	6172.5	6244.4	6303.6	6321.6
22.5°	7303.6	7308.8	7162.2	6892.3	6576.1	6367.8	6252.2	6244.4	6329.3	6396.1	6416.7
25°	8134.0	8113.4	7907.7	7522.1	7041.4	6696.9	6496.4	6450.1	6522.1	6596.6	6622.4
27.5°	9100.6	9026.0	8781.8	8316.5	7694.4	7190.5	6882.0	6807.4	6876.9	6961.7	6987.4
30°	10056.9	9979.8	9689.3	9180.3	8488.7	7851.2	7409.0	7288.2	7385.9	7506.7	7522.1
32.5°	11013.3	11013.3	10689.3	10095.5	9342.2	8640.4	8110.8	7966.9	8128.8	8275.4	8308.8
35°	12157.3	12162.4	11848.8	11134.1	10324.3	9581.3	8997.8	8892.4	9136.6	9239.4	9319.1
37.5°	13563.5	13591.8	13188.1	12324.4	11437.4	10655.9	9961.8	9817.8	10062.1	10342.3	10599.4
40°	15082.8	15118.8	14674.1	13609.8	12722.8	11905.3	11154.7	10895.0	11301.2	11835.9	12167.5
42.5°	16532.7	16717.8	16288.5	15193.4	14239.6	13393.8	12632.9	12255.0	12764.0	13571.2	13859.1
45°	18627.9	18761.6	18013.5	17021.2	16124.0	15177.9	14170.2	13771.7	14483.8	15501.9	15561.0
47.5°	20023.9	19923.6	19543.1	18926.1	18358.0	17473.7	15956.9	15519.9	16465.9	17663.9	17332.3
50°	20766.8	20797.7	20746.3	20782.3	20802.8	20247.5	18147.2	17548.2	18676.8	20124.1	19360.6
52.5°	21460.9	21255.3	21425.0	22268.2	23286.2	23080.5	20530.3	19905.6	21047.0	22854.3	21504.6
55°	21445.5	21131.9	21684.6	23173.1	25381.4	25617.9	23206.5	22486.7	23553.6	25782.4	23777.2
57.5°	20687.1	20702.6	21553.5	23502.2	26841.6	28003.6	26312.0	25232.3	26211.8	28749.1	25851.9
60°	19643.4	19784.8	21011.1	23448.2	28011.3	29960.0	30121.9	28191.3	28816.0	31445.9	27569.1
62.5°	17959.5	18108.6	19800.2	22887.7	27833.9	31844.4	33566.8	31548.7	31538.4	33080.9	28073.0
65°	15303.9	15260.2	17036.6	20792.5	26345.4	33237.7	36988.5	34451.1	33589.9	33106.6	27060.1
67.5°	11285.8	11090.4	12614.9	15836.1	21898.0	31677.3	39001.4	35962.8	34289.2	30929.2	23964.9
70°	5856.3	5660.9	6894.9	9247.1	14401.6	24723.3	36772.6	35181.2	32744.1	25926.4	18774.5
72.5°	2503.9	2470.5	2971.8	4056.7	6966.8	14260.2	28834.0	30451.0	28096.2	19316.9	12907.9
75°	1683.9	1673.6	1861.3	2210.9	3133.8	5786.8	18044.4	21615.2	20556.0	11977.3	7259.9
77.5°	1321.4	1308.5	1419.1	1588.7	2030.9	2282.9	8008.0	11604.5	10740.8	5213.6	3177.5
80°	1033.5	1023.2	1092.6	1185.1	1460.2	1439.6	2635.1	4617.1	3573.4	1997.5	1545.0
82.5°	814.9	814.9	871.5	874.1	1036.0	982.0	1375.4	2033.5	1784.1	1164.6	946.1
85°	745.5	745.5	804.7	653.0	676.1	619.6	853.5	1205.7	1131.1	478.2	411.3
87.5°	375.3	365.1	676.1	578.4	367.6	329.1	416.5	583.6	627.3	264.8	205.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6563.2	6563.2	6563.2	6563.2	6563.2	6563.2	6563.2	6563.2	6563.2	6563.2
2.5°	6532.4	6529.8	6534.9	6537.5	6558.1	6586.4	6599.2	6617.2	6627.5	6622.4
5°	6455.3	6460.4	6481.0	6496.4	6532.4	6578.6	6604.4	6624.9	6642.9	6635.2
7.5°	6391.0	6403.8	6434.7	6447.5	6468.1	6481.0	6478.4	6486.1	6501.5	6483.5
10°	6355.0	6370.4	6393.6	6375.6	6326.7	6257.3	6193.0	6159.6	6169.9	6157.0
12.5°	6319.0	6339.6	6321.6	6236.7	6100.5	6010.5	5961.7	5966.8	5989.9	5995.1
15°	6298.4	6306.1	6229.0	6069.6	5930.8	5918.0	5943.7	5938.5	5941.1	5941.1
17.5°	6298.4	6277.9	6133.9	5974.5	5915.4	5892.2	5812.6	5712.3	5668.6	5653.2
20°	6331.9	6277.9	6103.1	5997.7	5869.1	5671.2	5460.4	5275.3	5193.0	5169.9
22.5°	6432.1	6339.6	6190.5	6007.9	5642.9	5311.2	4977.0	4756.0	4606.9	4581.1
25°	6635.2	6532.4	6362.7	5871.7	5283.0	4809.9	4429.5	4182.7	4033.6	4013.0
27.5°	6990.0	6923.1	6455.3	5570.9	4804.8	4298.4	3946.2	3755.9	3645.4	3637.7
30°	7524.7	7491.3	6409.0	5126.2	4216.1	3802.2	3632.5	3522.0	3439.7	3437.1
32.5°	8378.2	8108.3	6257.3	4583.7	3678.8	3450.0	3380.6	3313.7	3249.5	3249.5
35°	9475.9	8607.0	5969.4	4002.7	3352.3	3254.6	3167.2	3061.8	2977.0	2971.8
37.5°	10766.5	8915.5	5452.6	3534.8	3198.1	3123.5	2995.0	2838.2	2689.0	2663.3
40°	12069.9	9008.0	4725.1	3246.9	3100.4	2992.4	2835.6	2650.5	2506.5	2498.8
42.5°	13265.3	8830.7	3953.9	3049.0	3002.7	2858.7	2694.2	2529.7	2416.5	2414.0
45°	14267.9	8370.5	3306.0	2861.3	2899.8	2737.9	2591.4	2457.7	2370.3	2352.3
47.5°	15211.4	7720.1	2851.0	2663.3	2797.0	2671.0	2547.7	2421.7	2336.8	2324.0
50°	16306.5	7018.3	2532.2	2470.5	2707.0	2647.9	2583.6	2452.5	2311.1	2295.7
52.5°	17633.0	6411.5	2282.9	2300.9	2637.6	2678.8	2676.2	2539.9	2293.1	2272.6
55°	19113.8	5738.0	2095.2	2162.0	2609.4	2735.3	2699.3	2622.2	2308.6	2277.7
57.5°	20571.5	4951.3	1964.1	2056.6	2568.2	2730.2	2588.8	2478.2	2344.6	2300.9
60°	21664.0	3894.7	1863.8	1964.1	2478.2	2645.3	2468.0	2321.4	2336.8	2303.4
62.5°	21736.0	3010.4	1743.0	1884.4	2342.0	2560.5	2388.3	2252.0	2370.3	2339.4
65°	20458.3	2275.1	1627.3	1789.3	2195.5	2506.5	2311.1	2213.4	2439.7	2406.3
67.5°	17224.3	1830.4	1529.6	1691.6	2048.9	2393.4	2241.7	2177.5	2501.4	2442.2
70°	12434.9	1560.5	1434.5	1573.3	1917.8	2264.9	2180.0	2113.2	2334.3	2241.7
72.5°	7655.8	1352.2	1326.5	1416.5	1817.5	2131.2	2087.5	1992.4	2102.9	2028.4
75°	3822.8	1172.3	1205.7	1262.3	1676.2	1979.5	1933.2	1838.1	1853.5	1838.1
77.5°	1830.4	1002.6	1064.3	1108.0	1493.6	1807.3	1758.4	1660.7	1642.7	1645.3
80°	1159.4	838.1	897.2	928.1	1334.2	1606.7	1557.9	1460.2	1665.9	1545.0
82.5°	725.0	681.3	696.7	753.2	1162.0	1398.5	1334.2	1246.8	1501.3	1187.7
85°	401.0	475.6	496.2	545.0	894.6	1169.7	1105.4	994.9	892.1	876.6
87.5°	239.1	282.8	290.5	326.5	601.6	845.8	748.1	709.5	588.7	586.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)