

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: P193197

Luminaire Tested: **GAN-AF-09-LED-U-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193197
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-T3-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51477.5 lumens
Efficiency: N/A
Efficacy: 102.7 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

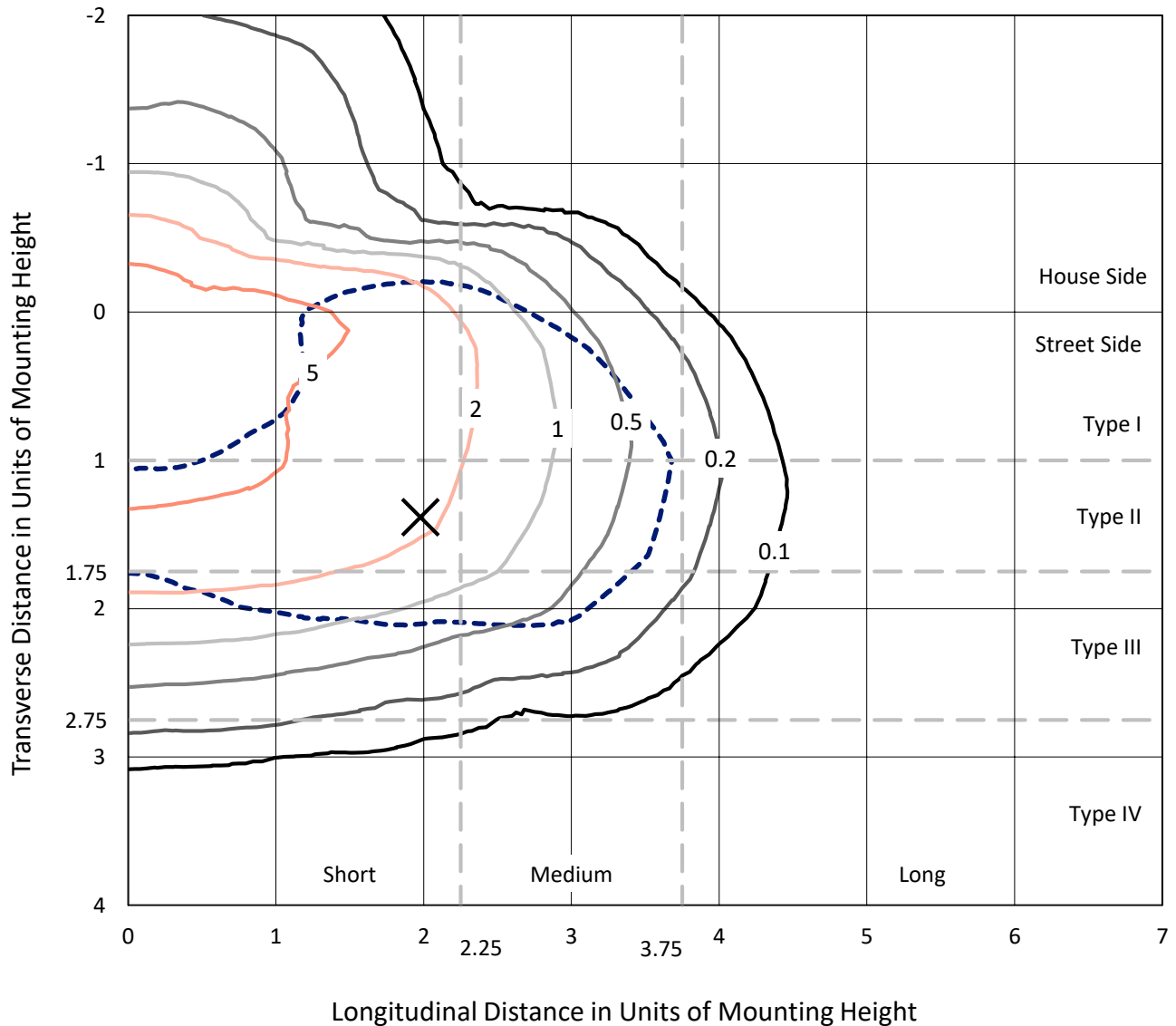
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P193197
 CATALOG NUMBER: GAN-AF-09-LED-U-T3-7030

Iso-Footcandle Lines of Horizontal Illumination

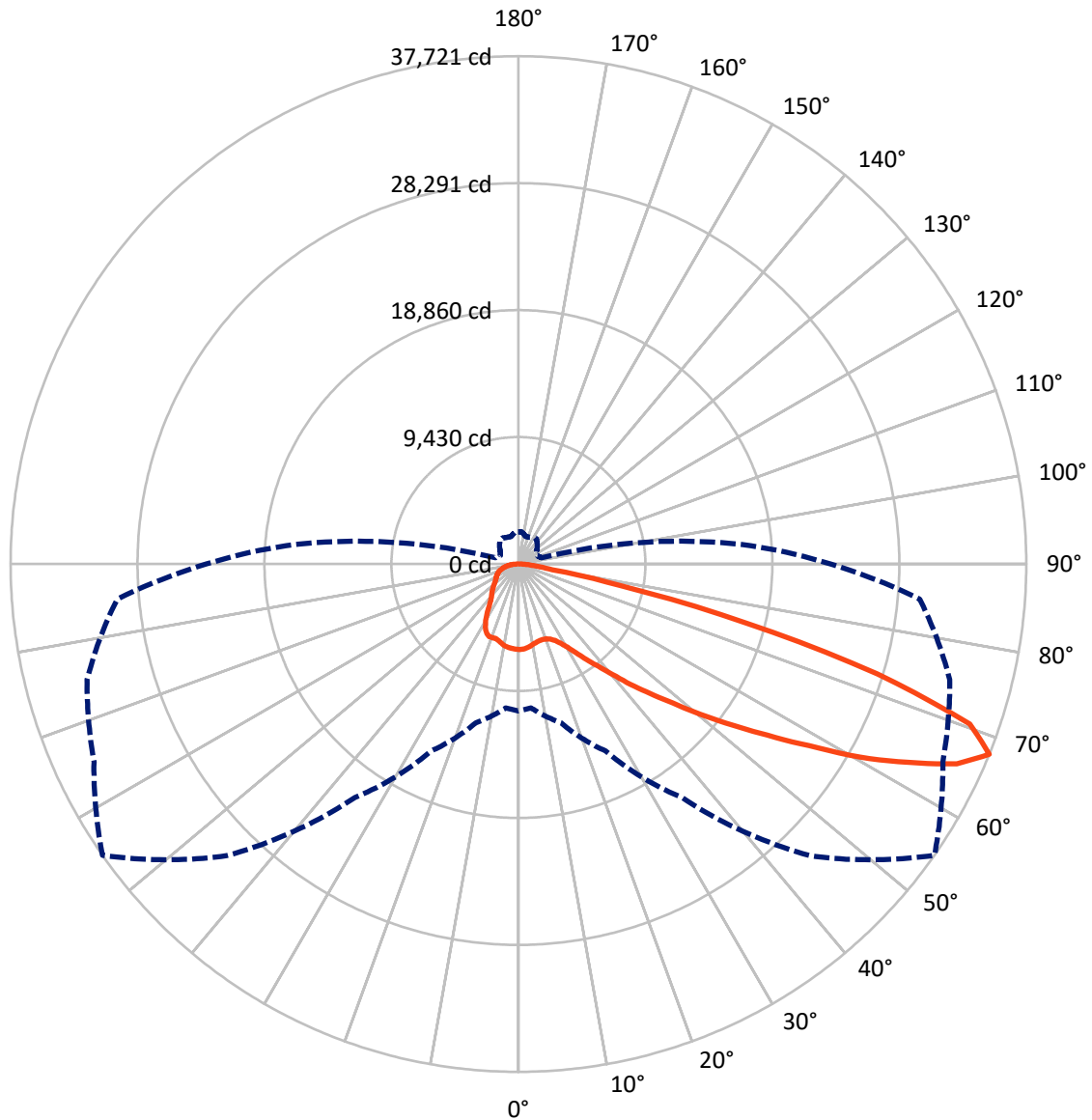
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P193197
CATALOG NUMBER: GAN-AF-09-LED-U-T3-7030

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	11120.2	0.0	11120.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	40357.3	0.0	40357.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	51477.5	0.0	51477.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.5	1.2
10°-20°	1678.0	3.3
20°-30°	2810.9	5.5
30°-40°	4622.4	9.0
40°-50°	7780.8	15.1
50°-60°	12246.5	23.8
60°-70°	14614.8	28.4
70°-80°	6275.9	12.2
80°-90°	855.7	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°	51477.5	100.0
0°-180°	51477.5	100.0

Coefficient of Utilization



REPORT NUMBER: P193197

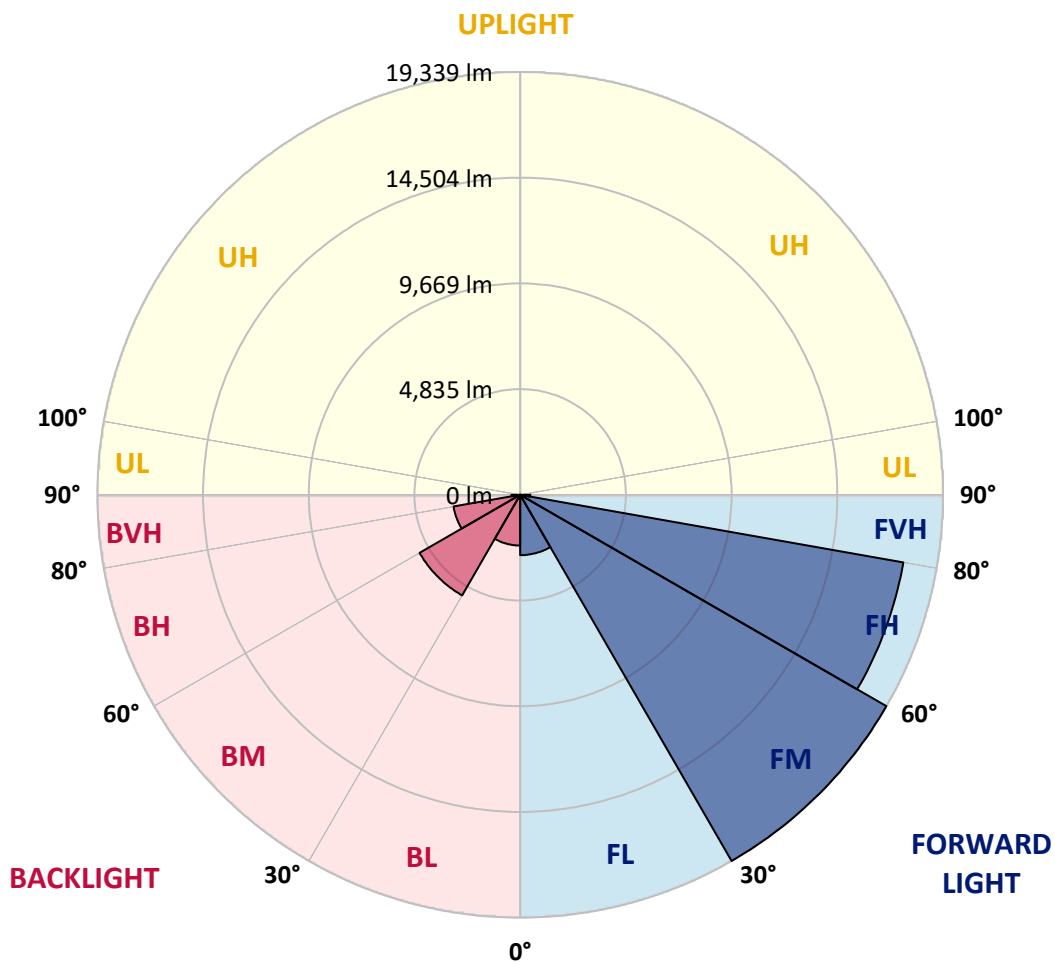
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2759.3	5.4			
FM	(30°-60°)	19338.8	37.6			
FH	(60°-80°)	17796.0	34.6			G5
FVH	(80°-90°)	463.2	0.9			G3/500
BL	(0°-30°)	2322.1	4.5	B3/2500		
BM	(30°-60°)	5310.9	10.3	B4/8500		
BH	(60°-80°)	3094.7	6.0	B4/5000		G4/5000
BVH	(80°-90°)	392.5	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





REPORT NUMBER: P193197

CATALOG NUMBER: GAN-AF-09-LED-U-T3-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6347.8	6347.8	6347.8	6347.8	6347.8	6347.8	6347.8	6347.8	6347.8	6347.8	6347.8
2.5°	6293.0	6295.5	6300.6	6320.4	6337.8	6332.7	6335.3	6325.3	6322.9	6308.0	6322.9
5°	6213.5	6220.9	6223.4	6255.7	6275.7	6280.7	6273.1	6260.7	6245.8	6230.8	6238.3
7.5°	6031.9	6051.9	6054.4	6099.1	6131.4	6173.7	6176.2	6178.6	6171.2	6161.2	6176.2
10°	5917.6	5922.6	5920.1	5952.5	5977.2	6024.5	6051.9	6099.1	6118.9	6124.0	6134.0
12.5°	5910.2	5905.1	5897.7	5897.7	5890.2	5910.2	5959.9	6027.0	6074.3	6089.1	6101.6
15°	5989.7	5987.2	5962.4	5925.0	5877.8	5862.9	5905.1	5979.8	6041.9	6074.3	6086.7
17.5°	6168.7	6153.8	6114.0	6029.5	5927.6	5887.8	5892.7	5954.8	6027.0	6069.3	6081.7
20°	6496.9	6496.9	6412.4	6253.2	6071.7	5977.2	5932.6	5969.8	6039.5	6096.6	6114.0
22.5°	7063.8	7068.7	6927.0	6666.0	6360.2	6158.7	6046.9	6039.5	6121.5	6186.2	6206.0
25°	7866.8	7847.0	7648.1	7275.1	6810.2	6477.0	6283.1	6238.3	6308.0	6380.0	6404.9
27.5°	8801.8	8729.7	8493.5	8043.4	7441.7	6954.5	6656.1	6584.0	6651.0	6733.1	6758.0
30°	9726.7	9652.2	9371.1	8878.9	8210.1	7593.4	7165.8	7048.9	7143.4	7260.3	7275.1
32.5°	10651.6	10651.6	10338.3	9764.1	9035.5	8356.7	7844.5	7705.3	7862.0	8003.7	8036.0
35°	11758.2	11763.1	11459.7	10768.5	9985.3	9266.8	8702.4	8600.5	8836.6	8936.1	9013.2
37.5°	13118.2	13145.5	12755.2	11919.7	11062.0	10306.1	9634.7	9495.5	9731.7	10002.6	10251.4
40°	14587.6	14622.3	14192.2	13162.9	12305.1	11514.4	10788.4	10537.3	10930.2	11447.3	11768.1
42.5°	15990.0	16169.0	15753.8	14694.5	13772.1	12954.1	12218.1	11852.6	12344.8	13125.7	13404.2
45°	18016.3	18145.7	17422.1	16462.3	15594.6	14679.6	13704.9	13319.6	14008.2	14992.9	15050.1
47.5°	19366.4	19269.5	18901.6	18304.8	17755.2	16900.0	15433.0	15010.2	15925.3	17084.0	16763.2
50°	20085.0	20114.8	20065.1	20099.9	20119.8	19582.7	17551.4	16972.0	18063.7	19463.5	18725.0
52.5°	20756.3	20557.4	20721.6	21537.0	22521.6	22322.8	19856.2	19252.0	20356.0	22103.9	20798.6
55°	20741.4	20438.0	20972.7	22412.3	24548.1	24776.8	22444.6	21748.4	22780.2	24935.9	22996.6
57.5°	20007.9	20022.9	20845.8	22730.6	25960.3	27084.2	25448.1	24403.8	25351.2	27805.3	25003.1
60°	18998.4	19135.2	20321.2	22678.3	27091.6	28976.3	29133.0	27265.6	27869.9	30413.4	26663.9
62.5°	17369.9	17514.0	19150.1	22136.3	26920.1	30798.9	32464.7	30513.0	30503.0	31994.8	27151.4
65°	14801.5	14759.2	16477.3	20109.8	25480.5	32146.5	35774.1	33320.0	32487.0	32019.6	26171.6
67.5°	10915.2	10726.3	12200.7	15316.1	21179.1	30637.2	37720.8	34782.0	33163.4	29913.6	23178.0
70°	5664.0	5475.0	6668.5	8943.5	13928.7	23911.6	35565.2	34026.2	31669.2	25075.2	18158.1
72.5°	2421.7	2389.4	2874.3	3923.5	6738.1	13792.1	27887.4	29451.3	27173.7	18682.7	12484.2
75°	1628.6	1618.6	1800.1	2138.3	3030.9	5596.8	17452.0	20905.5	19881.2	11584.1	7021.5
77.5°	1278.0	1265.5	1372.6	1536.6	1964.3	2207.9	7745.1	11223.5	10388.2	5042.5	3073.1
80°	999.5	989.6	1056.7	1146.2	1412.2	1392.4	2548.6	4465.5	3456.1	1931.9	1494.3
82.5°	788.2	788.2	842.9	845.3	1002.0	949.8	1330.2	1966.7	1725.5	1126.4	914.9
85°	721.0	721.0	778.3	631.5	653.9	599.2	825.5	1166.2	1094.0	462.5	397.8
87.5°	363.0	353.0	653.9	559.4	355.5	318.3	402.8	564.5	606.7	256.1	199.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P193197

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6347.8	6347.8	6347.8	6347.8	6347.8	6347.8	6347.8	6347.8	6347.8	6347.8
2.5°	6317.9	6315.4	6320.4	6322.9	6342.7	6370.2	6382.6	6400.0	6409.9	6404.9
5°	6243.3	6248.3	6268.2	6283.1	6317.9	6362.6	6387.6	6407.4	6424.8	6417.4
7.5°	6181.2	6193.6	6223.4	6235.9	6255.7	6268.2	6265.7	6273.1	6288.1	6270.6
10°	6146.4	6161.2	6183.6	6166.3	6118.9	6051.9	5989.7	5957.4	5967.3	5954.8
12.5°	6111.5	6131.4	6114.0	6031.9	5900.2	5813.1	5765.9	5770.8	5793.3	5798.3
15°	6091.6	6099.1	6024.5	5870.4	5736.1	5723.6	5748.5	5743.5	5746.1	5746.1
17.5°	6091.6	6071.7	5932.6	5778.4	5721.2	5698.8	5621.7	5524.7	5482.5	5467.6
20°	6124.0	6071.7	5902.6	5800.7	5676.4	5485.0	5281.0	5102.1	5022.5	5000.1
22.5°	6220.9	6131.4	5987.2	5810.6	5457.6	5136.9	4813.6	4599.9	4455.6	4430.7
25°	6417.4	6317.9	6153.8	5678.9	5109.5	4652.0	4284.0	4045.4	3901.1	3881.2
27.5°	6760.5	6695.9	6243.3	5388.0	4647.1	4157.2	3816.7	3632.7	3525.7	3518.2
30°	7277.6	7245.3	6198.6	4957.8	4077.7	3677.3	3513.2	3406.3	3326.8	3324.3
32.5°	8103.1	7842.1	6051.9	4433.2	3558.0	3336.8	3269.6	3204.9	3142.9	3142.9
35°	9164.7	8324.5	5773.4	3871.3	3242.3	3147.8	3063.2	2961.3	2879.2	2874.3
37.5°	10413.0	8622.7	5273.6	3418.8	3093.0	3020.9	2896.7	2744.9	2600.8	2575.9
40°	11673.6	8712.4	4570.0	3140.3	2998.6	2894.2	2742.5	2563.4	2424.3	2416.9
42.5°	12829.8	8540.7	3824.1	2948.8	2904.1	2764.8	2605.8	2446.7	2337.2	2334.8
45°	13799.5	8095.7	3197.5	2767.3	2804.6	2648.0	2506.3	2376.9	2292.5	2275.0
47.5°	14712.0	7466.6	2757.3	2575.9	2705.2	2583.3	2464.1	2342.2	2260.1	2247.7
50°	15771.1	6787.8	2449.0	2389.4	2618.2	2560.9	2498.9	2372.0	2235.2	2220.3
52.5°	17054.1	6201.0	2207.9	2225.3	2550.9	2590.9	2588.4	2456.5	2217.9	2198.0
55°	18486.2	5549.6	2026.4	2091.0	2523.7	2645.5	2610.8	2536.1	2232.8	2202.8
57.5°	19896.0	4788.8	1899.6	1989.1	2483.9	2640.6	2503.7	2396.8	2267.5	2225.3
60°	20952.7	3766.8	1802.7	1899.6	2396.8	2558.6	2386.9	2245.2	2260.1	2227.8
62.5°	21022.3	2911.5	1685.8	1822.6	2265.1	2476.5	2309.8	2178.1	2292.5	2262.6
65°	19786.7	2200.5	1573.9	1730.5	2123.4	2424.3	2235.2	2140.8	2359.6	2327.2
67.5°	16658.8	1770.3	1479.4	1636.0	1981.6	2314.8	2168.1	2106.0	2419.2	2362.0
70°	12026.6	1509.2	1387.4	1521.7	1854.9	2190.5	2108.4	2043.8	2257.7	2168.1
72.5°	7404.5	1307.9	1282.9	1370.0	1757.9	2061.1	2018.9	1926.9	2033.9	1961.7
75°	3697.3	1133.8	1166.2	1220.9	1621.1	1914.5	1869.8	1777.7	1792.7	1777.7
77.5°	1770.3	969.6	1029.3	1071.7	1444.6	1747.9	1700.7	1606.2	1588.8	1591.3
80°	1121.3	810.6	867.7	897.6	1290.5	1554.0	1506.8	1412.2	1611.1	1494.3
82.5°	701.1	659.0	673.8	728.5	1123.8	1352.6	1290.5	1205.9	1452.0	1148.8
85°	387.9	460.0	479.8	527.0	865.3	1131.3	1069.1	962.2	862.8	847.9
87.5°	231.2	273.4	281.1	315.8	581.8	818.1	723.6	686.2	569.4	566.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)