

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: P267346

Luminaire Tested: **GAN-AF-10-LED-U-T3-7027-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P267346
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-10-LED-U-T3-7027-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41365.5 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - 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: 28.75 FT

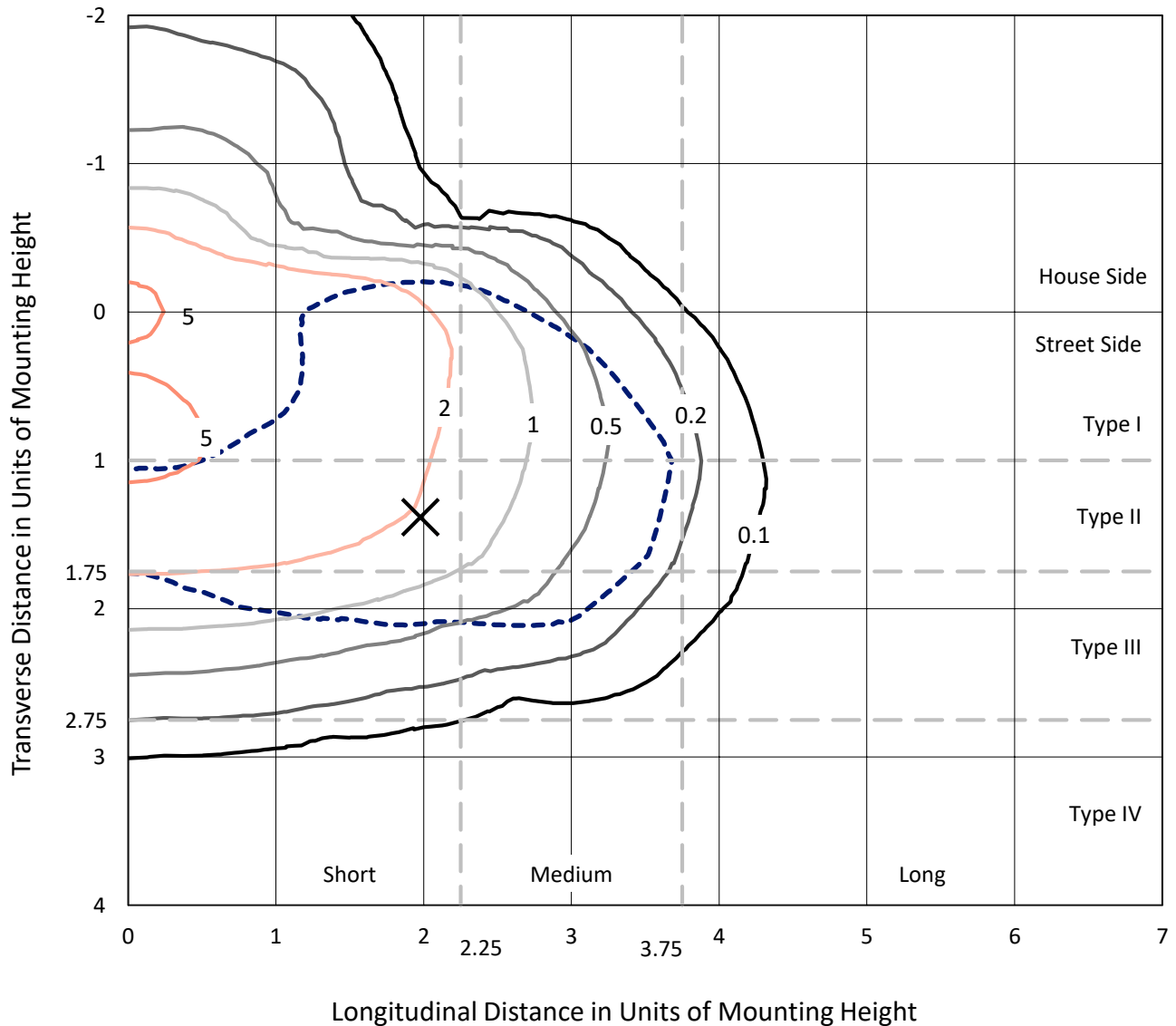


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

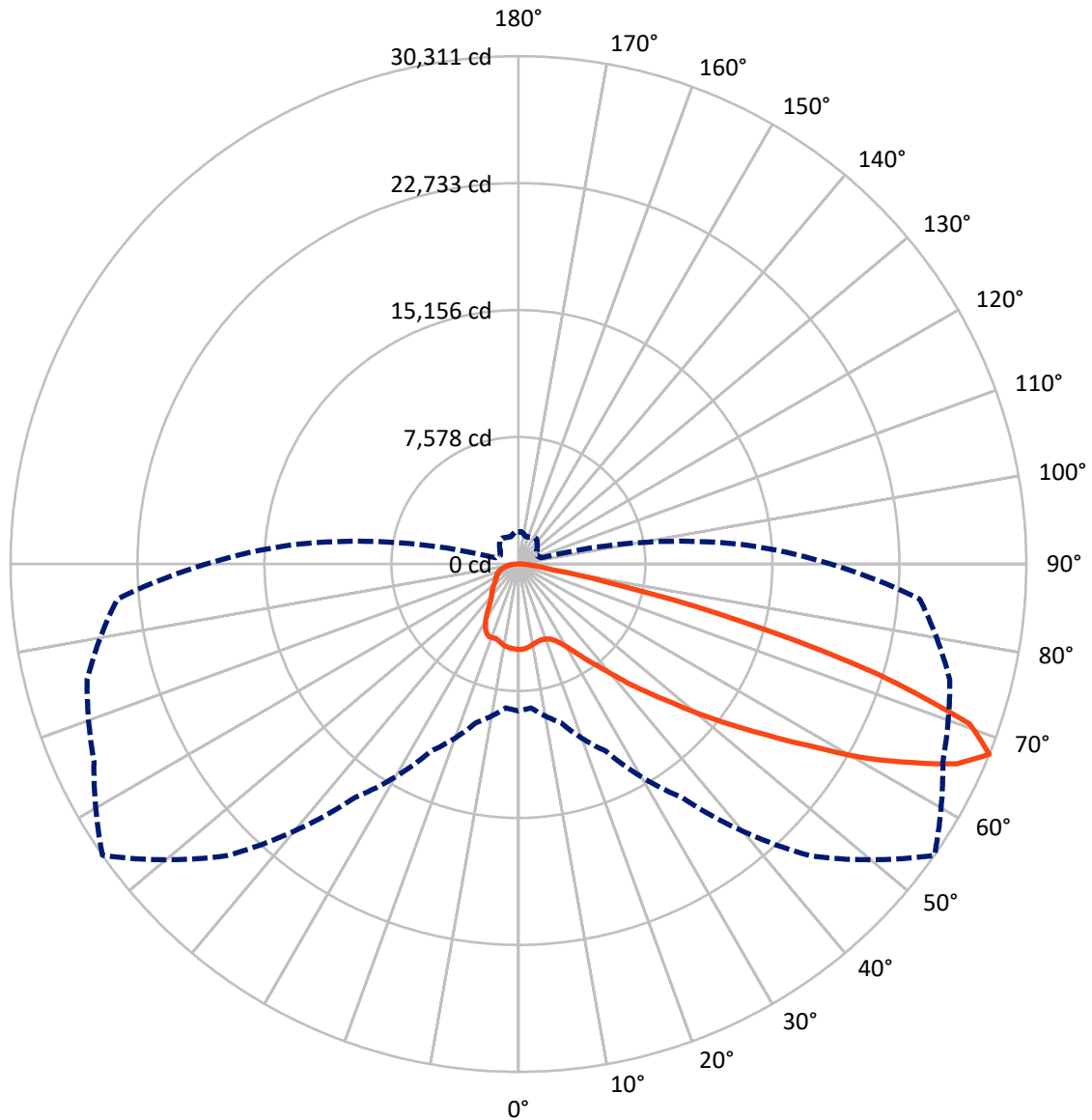


Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - Full Cutoff

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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	8935.8	0.0	8935.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	32429.7	0.0	32429.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	41365.5	0.0	41365.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.1	1.2
10°-20°	1348.4	3.3
20°-30°	2258.8	5.5
30°-40°	3714.4	9.0
40°-50°	6252.4	15.1
50°-60°	9840.8	23.8
60°-70°	11744.0	28.4
70°-80°	5043.1	12.2
80°-90°	687.6	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°	41365.5	100.0
0°-180°	41365.5	100.0



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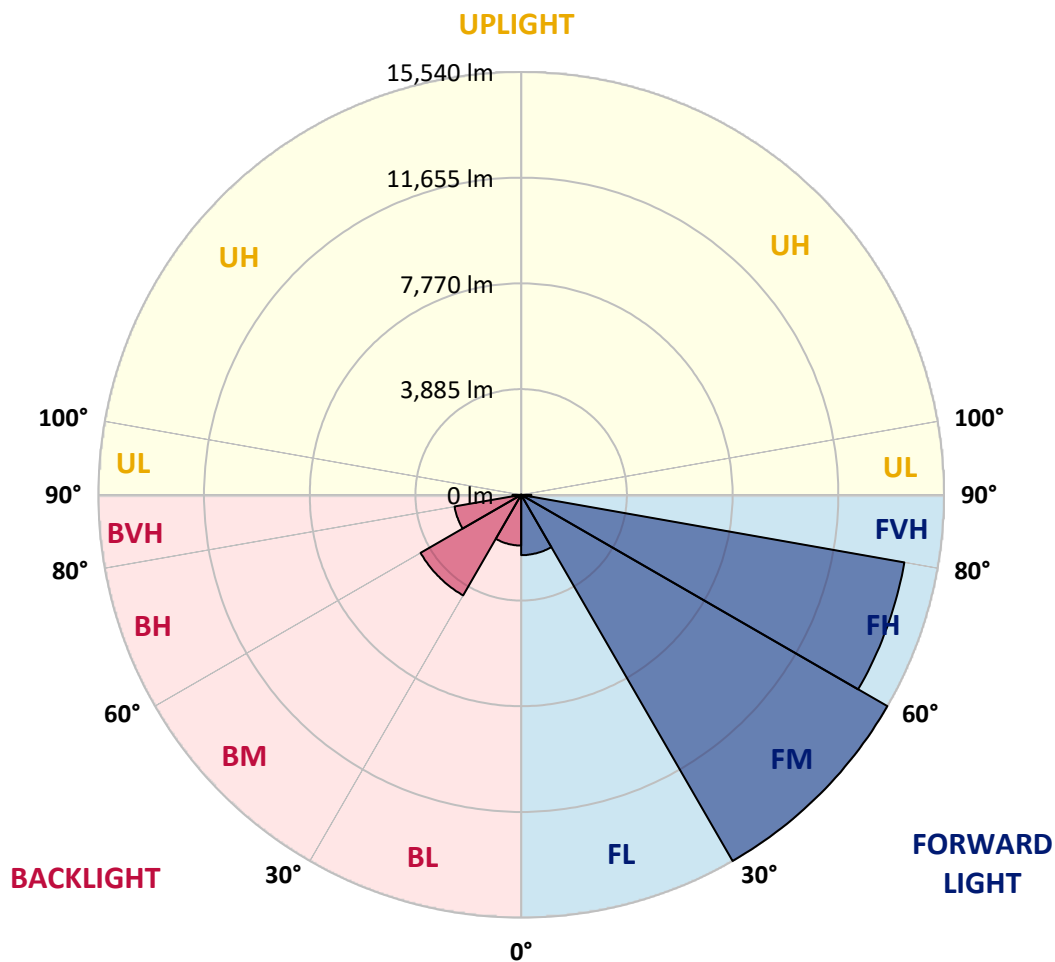
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2217.3	5.4			
FM (30°-60°)	15540.0	37.6			
FH (60°-80°)	14300.3	34.6			G5
FVH (80°-90°)	372.2	0.9			G3/500
BL (0°-30°)	1866.0	4.5	B3/2500		
BM (30°-60°)	4267.7	10.3	B3/5000		
BH (60°-80°)	2486.8	6.0	B3/2500		G3/2500
BVH (80°-90°)	315.4	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5100.8	5100.8	5100.8	5100.8	5100.8	5100.8	5100.8	5100.8	5100.8	5100.8	5100.8
2.5°	5056.9	5058.9	5062.8	5078.8	5092.9	5088.8	5090.9	5082.8	5080.9	5068.9	5080.9
5°	4992.9	4998.9	5001.0	5026.8	5042.8	5046.9	5040.8	5030.9	5018.9	5007.0	5012.9
7.5°	4847.1	4863.1	4865.1	4901.1	4927.1	4961.0	4963.0	4964.9	4959.0	4951.0	4963.0
10°	4755.2	4759.2	4757.2	4783.1	4803.1	4841.1	4863.1	4901.1	4917.1	4921.1	4929.0
12.5°	4749.2	4745.1	4739.2	4739.2	4733.2	4749.2	4789.1	4843.1	4881.0	4893.1	4902.9
15°	4813.1	4811.1	4791.1	4761.1	4723.2	4711.3	4745.1	4805.2	4855.1	4881.0	4891.0
17.5°	4956.9	4945.0	4913.0	4845.1	4763.2	4731.3	4735.1	4785.1	4843.1	4877.1	4887.0
20°	5220.7	5220.7	5152.8	5024.8	4879.1	4803.1	4767.1	4797.0	4853.1	4899.0	4913.0
22.5°	5676.2	5680.3	5566.3	5356.6	5110.7	4949.0	4859.0	4853.1	4918.9	4971.0	4986.9
25°	6321.6	6305.7	6145.8	5846.1	5472.5	5204.7	5048.8	5012.9	5068.9	5126.7	5146.7
27.5°	7072.9	7014.9	6825.1	6463.5	5979.9	5588.4	5348.6	5290.7	5344.6	5410.5	5430.4
30°	7816.1	7756.1	7530.3	7134.8	6597.3	6101.7	5758.1	5664.3	5740.2	5834.1	5846.1
32.5°	8559.3	8559.3	8307.5	7846.1	7260.6	6715.2	6303.5	6191.7	6317.6	6431.4	6457.5
35°	9448.5	9452.3	9208.6	8653.3	8023.8	7446.4	6992.9	6911.0	7100.8	7180.7	7242.7
37.5°	10541.3	10563.3	10249.7	9578.3	8889.0	8281.6	7742.1	7630.3	7820.0	8037.9	8237.6
40°	11722.2	11750.1	11404.4	10577.3	9888.0	9252.6	8669.3	8467.5	8783.1	9198.6	9456.4
42.5°	12848.9	12992.8	12659.2	11808.0	11066.8	10409.4	9818.0	9524.3	9920.0	10547.3	10771.0
45°	14477.4	14581.2	13999.7	13228.6	12531.3	11796.1	11012.9	10703.1	11256.7	12047.8	12093.7
47.5°	15562.1	15484.3	15188.6	14709.0	14267.5	13580.1	12401.5	12061.7	12797.1	13728.1	13470.4
50°	16139.6	16163.7	16123.6	16151.5	16167.5	15736.0	14103.7	13638.2	14515.3	15640.1	15046.7
52.5°	16679.1	16519.2	16651.2	17306.4	18097.7	17937.7	15955.9	15470.3	16357.3	17761.9	16713.1
55°	16667.1	16423.4	16852.9	18009.7	19726.1	19909.8	18035.7	17476.3	18305.4	20037.7	18479.3
57.5°	16077.7	16089.6	16751.0	18265.4	20860.8	21763.9	20449.2	19610.1	20371.4	22343.4	20091.6
60°	15266.4	15376.4	16329.4	18223.5	21769.9	23284.3	23410.2	21909.8	22395.3	24439.2	21426.3
62.5°	13957.9	14073.7	15388.3	17788.0	21632.1	24748.8	26087.5	24519.1	24511.2	25709.9	21817.9
65°	11893.9	11860.0	13240.6	16159.6	20475.2	25831.8	28746.8	26774.8	26105.5	25729.9	21030.6
67.5°	8771.1	8619.2	9804.0	12307.5	17018.7	24618.9	30311.1	27949.7	26648.8	24037.6	18625.1
70°	4551.4	4399.4	5358.6	7186.7	11192.6	19214.4	28578.9	27342.3	25448.2	20149.5	14591.2
72.5°	1946.0	1920.0	2309.6	3152.8	5414.5	11082.7	22409.3	23665.9	21835.8	15012.7	10031.8
75°	1308.7	1300.7	1446.5	1718.3	2435.6	4497.5	14023.8	16798.9	15975.7	9308.5	5642.3
77.5°	1026.9	1017.1	1102.8	1234.7	1578.4	1774.2	6223.6	9018.9	8347.5	4051.9	2469.5
80°	803.2	795.2	849.2	921.0	1134.9	1118.8	2048.0	3588.4	2777.2	1552.5	1200.8
82.5°	633.3	633.3	677.3	679.3	805.2	763.2	1069.0	1580.4	1386.7	905.1	735.3
85°	579.3	579.3	625.4	507.5	525.5	481.5	663.3	937.0	879.1	371.5	319.6
87.5°	291.7	283.8	525.5	449.5	285.8	255.7	323.7	453.6	487.5	205.8	159.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5100.8	5100.8	5100.8	5100.8	5100.8	5100.8	5100.8	5100.8	5100.8	5100.8
2.5°	5076.9	5074.9	5078.8	5080.9	5096.9	5118.8	5128.9	5142.7	5150.8	5146.7
5°	5016.9	5020.8	5036.8	5048.8	5076.9	5112.9	5132.7	5148.7	5162.7	5156.8
7.5°	4967.0	4977.0	5001.0	5010.9	5026.8	5036.8	5034.9	5040.8	5052.8	5039.0
10°	4939.1	4951.0	4969.0	4955.1	4917.1	4863.1	4813.1	4787.2	4795.2	4785.1
12.5°	4911.0	4927.1	4913.0	4847.1	4741.2	4671.2	4633.3	4637.3	4655.2	4659.2
15°	4895.0	4901.1	4841.1	4717.2	4609.4	4599.3	4619.4	4615.3	4617.3	4617.3
17.5°	4895.0	4879.1	4767.1	4643.2	4597.3	4579.4	4517.3	4439.6	4405.5	4393.5
20°	4921.1	4879.1	4743.2	4661.2	4561.4	4407.5	4243.8	4099.9	4035.9	4017.8
22.5°	4998.9	4927.1	4811.1	4669.3	4385.5	4127.8	3868.1	3696.3	3580.4	3560.4
25°	5156.8	5076.9	4945.0	4563.4	4105.9	3738.1	3442.6	3250.6	3134.8	3118.8
27.5°	5432.5	5380.6	5016.9	4329.7	3734.3	3340.5	3067.0	2919.0	2833.2	2827.1
30°	5848.1	5822.1	4980.9	3984.0	3276.7	2955.1	2823.2	2737.2	2673.3	2671.3
32.5°	6511.4	6301.6	4863.1	3562.4	2859.0	2681.4	2627.4	2575.4	2525.4	2525.4
35°	7364.6	6689.1	4639.2	3110.8	2605.4	2529.4	2461.4	2379.6	2313.7	2309.6
37.5°	8367.5	6928.9	4237.8	2747.1	2485.5	2427.5	2327.7	2205.8	2089.8	2070.0
40°	9380.6	7000.9	3672.4	2523.3	2409.6	2325.6	2203.7	2060.0	1948.1	1942.0
42.5°	10309.6	6863.1	3072.9	2369.5	2333.6	2221.8	2093.9	1966.0	1878.0	1876.1
45°	11088.8	6505.3	2569.4	2223.8	2253.7	2127.8	2014.0	1910.1	1842.2	1828.1
47.5°	11822.1	5999.9	2215.8	2070.0	2173.8	2076.0	1980.0	1882.0	1816.2	1806.1
50°	12673.1	5454.5	1967.9	1920.0	2103.9	2057.8	2007.9	1906.1	1796.3	1784.3
52.5°	13704.2	4983.0	1774.2	1788.2	2049.9	2081.9	2079.8	1973.9	1782.1	1766.2
55°	14854.9	4459.5	1628.4	1680.3	2028.0	2125.8	2097.9	2038.0	1794.2	1770.2
57.5°	15987.8	3848.1	1526.5	1598.4	1995.9	2121.8	2011.9	1926.1	1822.1	1788.2
60°	16836.9	3026.8	1448.5	1526.5	1926.1	2056.0	1918.1	1804.2	1816.2	1790.2
62.5°	16892.8	2339.6	1354.6	1464.4	1820.1	1989.9	1856.1	1750.2	1842.2	1818.2
65°	15899.9	1768.3	1264.8	1390.5	1706.3	1948.1	1796.3	1720.3	1896.1	1870.1
67.5°	13386.5	1422.6	1188.7	1314.7	1592.3	1860.1	1742.3	1692.2	1944.0	1898.1
70°	9664.1	1212.8	1114.8	1222.8	1490.5	1760.1	1694.3	1642.3	1814.1	1742.3
72.5°	5950.0	1050.9	1031.0	1101.0	1412.6	1656.4	1622.3	1548.4	1634.3	1576.3
75°	2971.0	911.2	937.0	980.9	1302.7	1538.4	1502.4	1428.6	1440.5	1428.6
77.5°	1422.6	779.2	827.2	861.1	1160.8	1404.6	1366.6	1290.7	1276.8	1278.6
80°	901.1	651.4	697.3	721.2	1037.0	1248.7	1210.7	1134.9	1294.6	1200.8
82.5°	563.4	529.6	541.5	585.4	903.1	1086.9	1037.0	969.0	1166.8	923.1
85°	311.7	369.7	385.6	423.6	695.3	909.1	859.0	773.3	693.3	681.4
87.5°	185.8	219.7	225.7	253.7	467.5	657.3	581.5	551.4	457.5	455.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)