

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: P191585

Luminaire Tested: **GAN-AF-07-LED-U-T4W-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-T4W-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46916.6 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

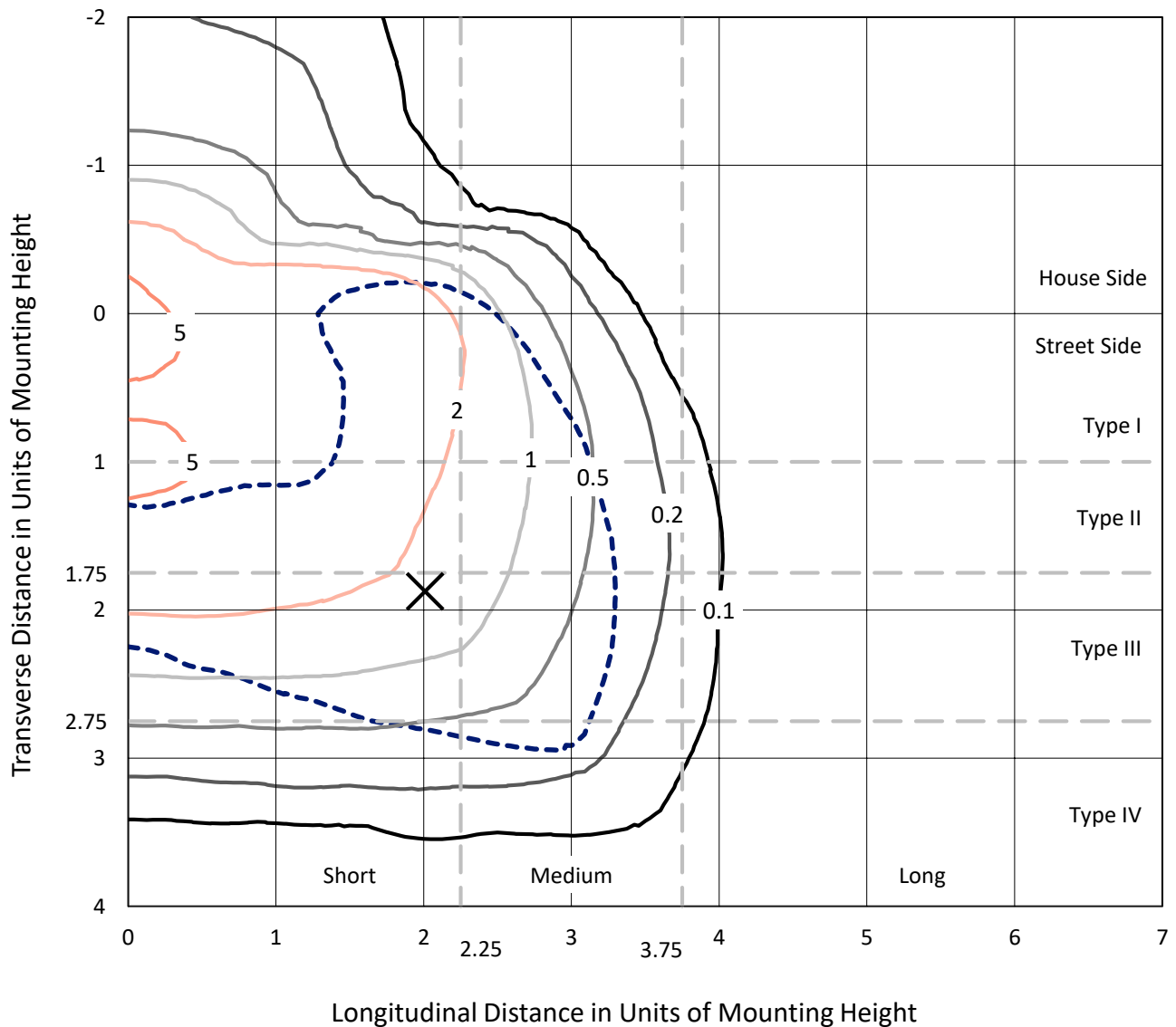
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

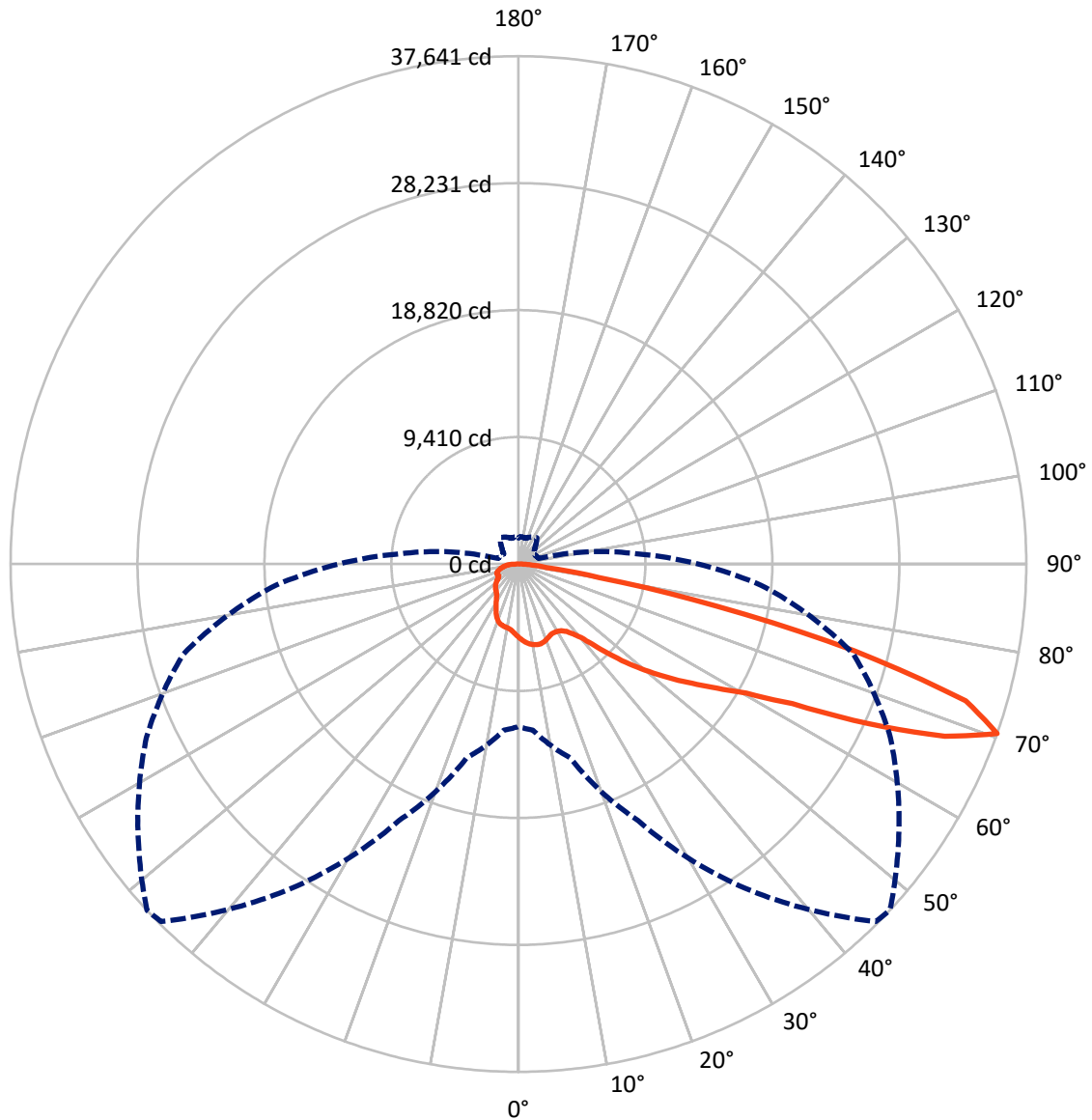
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9787.7	0.0	9787.7
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	37128.9	0.0	37128.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	46916.6	0.0	46916.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.6	1.1
10°-20°	1530.3	3.3
20°-30°	2259.8	4.8
30°-40°	3284.6	7.0
40°-50°	5911.0	12.6
50°-60°	10240.2	21.8
60°-70°	14615.8	31.2
70°-80°	7502.9	16.0
80°-90°	1050.4	2.2
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°	46916.6	100.0
0°-180°	46916.6	100.0



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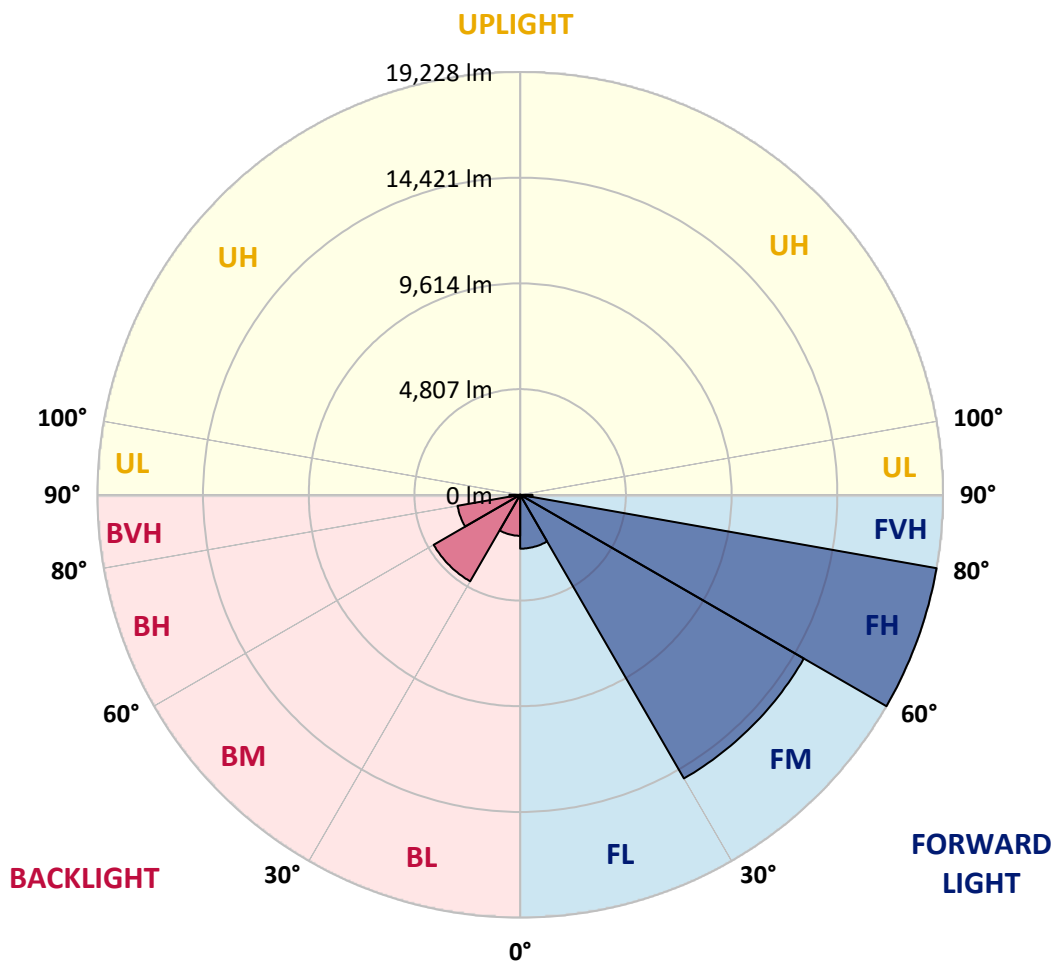
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2448.0	5.2			
FM	(30°-60°)	14892.6	31.7			
FH	(60°-80°)	19227.7	41.0			G5
FVH	(80°-90°)	560.5	1.2			G4/750
BL	(0°-30°)	1863.6	4.0	B3/2500		
BM	(30°-60°)	4543.2	9.7	B3/5000		
BH	(60°-80°)	2891.0	6.2	B4/5000		G4/5000
BVH	(80°-90°)	489.9	1.0			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°	35°	45°	47°	55°	65°	75°	85°
0°	5443.8	5443.8	5443.8	5443.8	5443.8	5443.8	5443.8	5443.8	5443.8	5443.8	5443.8
2.5°	5763.3	5752.0	5747.3	5738.2	5726.8	5669.8	5658.4	5617.2	5560.1	5500.8	5439.2
5°	6142.2	6140.0	6114.9	6069.2	5996.1	5870.6	5840.9	5740.5	5605.9	5475.8	5345.6
7.5°	6475.5	6454.9	6407.0	6315.7	6187.9	6016.7	5975.6	5836.3	5651.5	5473.5	5297.7
10°	6719.7	6708.3	6603.4	6477.7	6311.1	6121.6	6073.8	5918.6	5715.4	5489.5	5270.3
12.5°	6859.0	6836.1	6715.2	6564.5	6365.9	6181.1	6133.1	5975.6	5747.3	5489.5	5231.5
15°	6849.8	6833.8	6712.9	6548.5	6347.6	6185.6	6142.2	5984.8	5740.5	5466.6	5181.3
17.5°	6667.2	6674.0	6571.3	6409.3	6244.9	6121.6	6082.9	5936.8	5694.9	5420.9	5121.9
20°	6347.6	6379.6	6311.1	6167.4	6076.0	5991.6	5966.5	5843.2	5624.1	5354.7	5058.1
22.5°	6028.1	6057.8	6030.4	5909.4	5895.7	5845.6	5831.8	5742.8	5562.5	5313.7	5019.2
25°	5793.0	5820.4	5815.9	5710.8	5752.0	5749.6	5738.2	5694.9	5548.8	5313.7	5026.1
27.5°	5729.1	5738.2	5729.1	5633.2	5690.3	5736.0	5726.8	5719.9	5589.9	5379.9	5112.8
30°	5948.3	5934.5	5863.8	5669.8	5722.3	5786.1	5777.0	5781.6	5713.1	5553.4	5306.9
32.5°	6822.5	6760.8	6537.1	5991.6	5852.4	5886.6	5891.2	5966.5	5977.9	5820.4	5608.1
35°	8130.3	8061.9	7772.0	6854.4	6256.4	6137.7	6137.7	6251.8	6320.3	6203.9	6076.0
37.5°	9515.8	9440.5	9285.2	8050.4	7105.4	6573.6	6562.2	6642.1	6740.2	6767.6	6799.6
40°	11090.7	11010.8	11054.2	9392.5	8290.1	7329.1	7167.1	7110.0	7374.8	7550.5	7806.1
42.5°	12814.0	12777.5	12793.4	10887.6	9639.1	8459.0	8228.4	7934.0	8253.6	8566.3	9102.6
45°	14409.5	14441.4	14425.4	12487.6	11141.0	9837.6	9593.4	9022.7	9335.4	9871.9	10746.1
47.5°	15806.4	15674.0	15879.5	14236.0	12823.1	11380.6	11079.3	10314.6	10631.9	11293.9	12773.0
50°	17502.3	17484.1	17182.7	16568.7	14856.8	12930.4	12535.5	11650.0	12142.9	13062.8	15327.1
52.5°	19285.0	18953.9	18677.8	18383.3	17013.8	14519.0	14035.2	12980.6	13918.8	15075.9	18440.4
55°	19650.2	19501.7	19844.1	20339.4	19093.2	16169.3	15605.5	14649.2	15918.2	17376.8	22030.8
57.5°	20430.8	20428.4	21136.0	22019.4	21234.2	17920.0	17351.6	16664.6	18166.5	20013.0	25842.6
60°	20958.0	21106.3	22421.1	24135.3	23336.4	19942.3	19419.6	18990.5	20722.9	22959.8	29394.2
62.5°	21234.2	21435.0	23229.1	24993.5	26308.2	23309.0	22786.3	22167.8	24105.6	26191.8	31471.3
65°	20086.0	20481.0	23103.5	25735.3	28910.3	28766.5	28531.4	27445.0	28335.1	28745.9	30720.3
67.5°	16908.9	17312.8	20366.8	25043.7	30768.2	34030.0	34080.1	32224.5	30937.1	28965.1	25828.9
70°	12047.1	12364.4	14891.1	20996.8	29353.1	37469.7	37640.9	34427.1	30419.0	25687.4	18045.6
72.5°	5719.9	5914.0	8306.1	13665.4	23293.0	34331.3	34662.2	31615.0	25865.4	19017.9	9844.5
75°	2102.2	2161.5	2807.5	5813.5	13510.2	25317.6	25707.9	22663.1	17146.2	9467.8	3750.1
77.5°	1260.0	1298.7	1574.9	2453.6	5313.7	14471.1	15048.6	12325.5	7493.5	3524.2	1844.3
80°	881.1	908.5	1129.8	1527.0	2510.7	5514.5	6028.1	5030.7	2985.5	2230.0	1342.1
82.5°	595.8	609.5	794.3	1031.6	1668.5	1969.8	2125.0	2236.9	2013.2	1659.4	851.4
85°	390.4	404.0	538.7	680.2	1061.4	1018.0	1040.9	1317.0	1470.0	1127.6	472.5
87.5°	223.7	232.8	324.1	362.9	520.4	431.4	436.0	693.9	940.4	760.1	287.6
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°	5443.8	5443.8	5443.8	5443.8	5443.8	5443.8	5443.8	5443.8	5443.8	5443.8	5443.8
2.5°	5423.3	5393.6	5327.4	5286.3	5247.5	5238.3	5222.4	5220.1	5217.9	5217.9	5211.0
5°	5302.3	5252.0	5149.3	5092.2	5044.4	5039.8	5037.5	5048.9	5053.5	5058.1	5051.2
7.5°	5224.6	5156.2	5028.4	4946.2	4889.1	4875.5	4898.3	4950.8	4985.0	4998.6	4991.9
10°	5176.7	5092.2	4943.9	4854.9	4806.9	4800.1	4829.8	4891.4	4962.1	4989.5	4987.3
12.5°	5121.9	5026.1	4868.6	4775.0	4747.6	4761.3	4800.1	4857.2	4930.2	4973.6	4975.8
15°	5067.2	4955.4	4793.2	4711.1	4699.6	4718.0	4754.5	4797.8	4854.9	4898.3	4902.8
17.5°	5001.0	4884.6	4722.6	4638.1	4629.0	4638.1	4640.3	4663.1	4699.6	4740.8	4752.2
20°	4930.2	4811.6	4642.7	4558.2	4517.0	4480.5	4439.5	4444.0	4455.5	4496.6	4505.7
22.5°	4880.0	4761.3	4581.0	4464.6	4355.0	4245.5	4163.3	4151.9	4156.5	4190.7	4202.1
25°	4884.6	4759.1	4565.0	4364.1	4124.5	3948.7	3839.1	3820.9	3818.7	3843.7	3859.7
27.5°	4973.6	4848.1	4624.4	4261.4	3873.4	3613.2	3496.9	3483.1	3464.8	3471.7	3490.0
30°	5172.1	5055.7	4768.2	4156.5	3601.8	3284.5	3163.6	3149.9	3124.8	3113.4	3127.1
32.5°	5496.3	5400.5	4978.2	4056.0	3330.2	3003.8	2880.5	2850.9	2834.9	2821.2	2832.6
35°	6035.0	5993.9	5258.9	3946.4	3090.5	2786.9	2675.1	2629.5	2606.6	2631.7	2650.0
37.5°	6879.4	6902.4	5626.4	3775.3	2905.6	2643.1	2549.6	2497.0	2462.9	2483.4	2503.9
40°	8075.5	8091.5	6032.6	3533.4	2745.9	2558.7	2458.3	2410.4	2362.4	2325.9	2323.6
42.5°	9645.9	9483.9	6432.1	3270.9	2561.0	2506.2	2394.3	2335.0	2261.9	2161.5	2141.0
45°	11508.4	10940.0	6735.7	2969.5	2353.3	2442.3	2323.6	2241.4	2127.3	2017.8	2006.3
47.5°	13653.9	12503.6	6884.0	2656.8	2159.2	2348.7	2236.9	2106.8	1962.9	1908.2	1901.4
50°	16274.3	14359.3	6954.8	2353.3	1990.4	2225.4	2111.4	1958.4	1837.4	1826.0	1819.1
52.5°	19257.6	16591.5	6977.6	2104.5	1851.1	2065.6	2008.6	1860.2	1764.4	1773.5	1773.5
55°	22380.0	18896.9	6667.2	1924.2	1723.3	1901.4	1940.1	1821.5	1741.6	1778.1	1791.8
57.5°	25246.8	20939.8	5690.3	1784.9	1602.4	1775.8	1915.1	1858.0	1803.2	1951.6	1960.7
60°	27447.2	22147.2	4250.1	1659.4	1513.4	1732.5	1981.3	1997.2	2010.9	2364.7	2412.6
62.5°	27908.2	21745.5	2921.6	1561.2	1472.2	1769.0	2102.2	2104.5	2088.5	2335.0	2364.7
65°	25792.4	19205.1	2125.0	1506.5	1438.0	1835.2	2204.9	2157.0	2051.9	2239.1	2184.4
67.5°	20483.3	14468.8	1769.0	1465.4	1387.7	1830.6	2314.4	2204.9	2031.5	2193.5	2104.5
70°	13295.6	8748.9	1574.9	1431.1	1328.4	1743.8	2378.4	2200.4	1972.0	2040.6	1935.5
72.5°	6486.9	3912.2	1444.8	1380.9	1266.8	1622.9	2376.1	2159.2	1910.5	1905.9	1848.9
75°	2538.1	1791.8	1326.2	1305.6	1161.8	1485.9	2312.2	2099.9	1837.4	1764.4	1743.8
77.5°	1485.9	1278.2	1175.5	1193.8	1036.2	1349.0	2218.6	1997.2	1737.0	1650.2	1627.4
80°	1081.9	956.4	1002.0	1031.6	885.6	1212.0	2093.1	1871.7	1625.2	1668.5	1636.5
82.5°	693.9	616.3	812.5	842.2	737.2	1072.8	1956.1	1739.3	1467.6	1333.0	1301.0
85°	353.8	390.4	604.9	641.4	568.4	881.1	1789.4	1563.5	1289.6	1109.3	1127.6
87.5°	198.6	267.1	385.8	431.4	401.7	677.9	1451.7	1289.6	1052.2	855.9	753.2
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)