

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: McGRAW-EDISON

Report Number: P191518

Luminaire Tested: **GLEON-AF-10-LED-E1-T4FT-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-T4FT-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39948.3 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

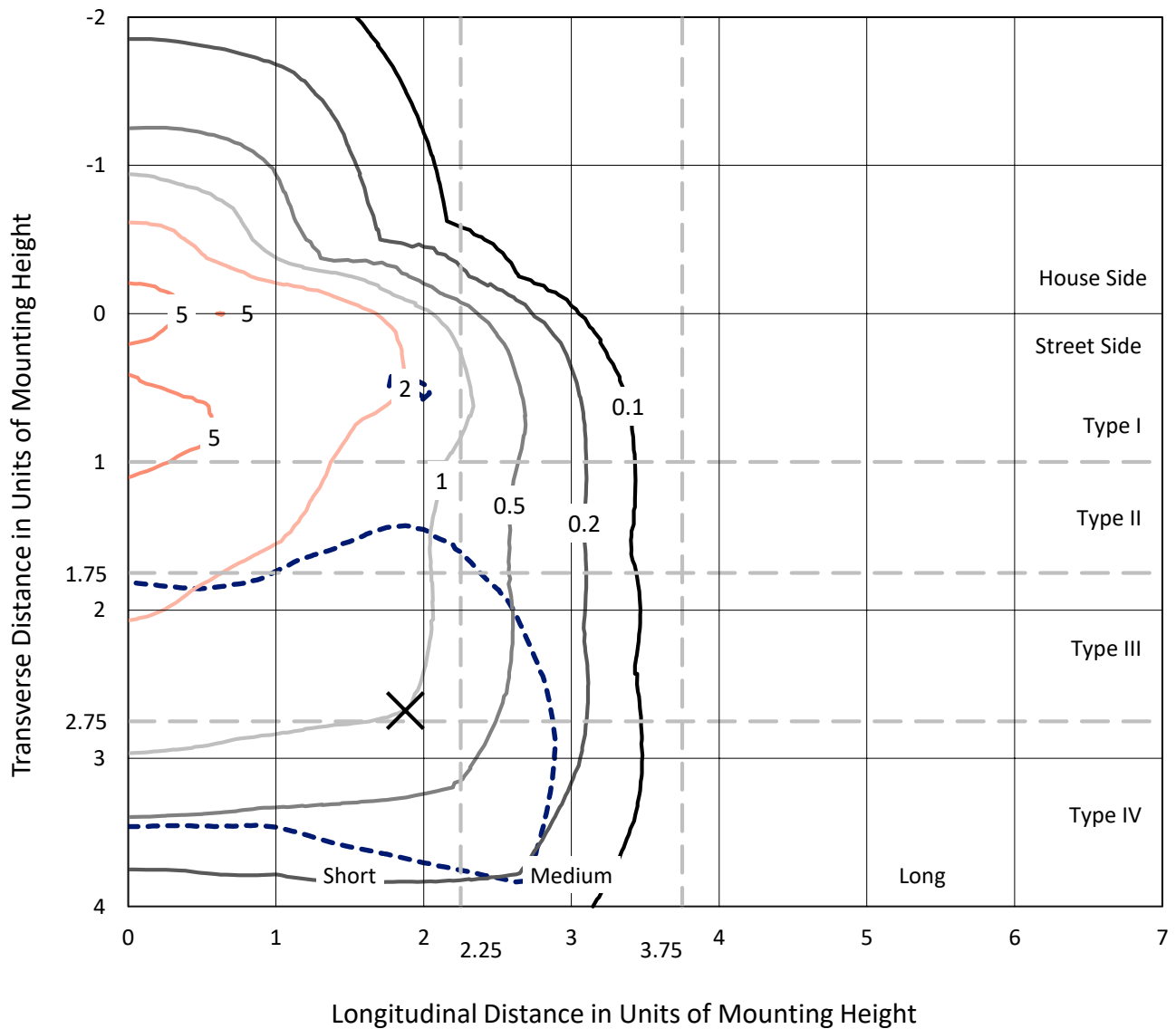
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

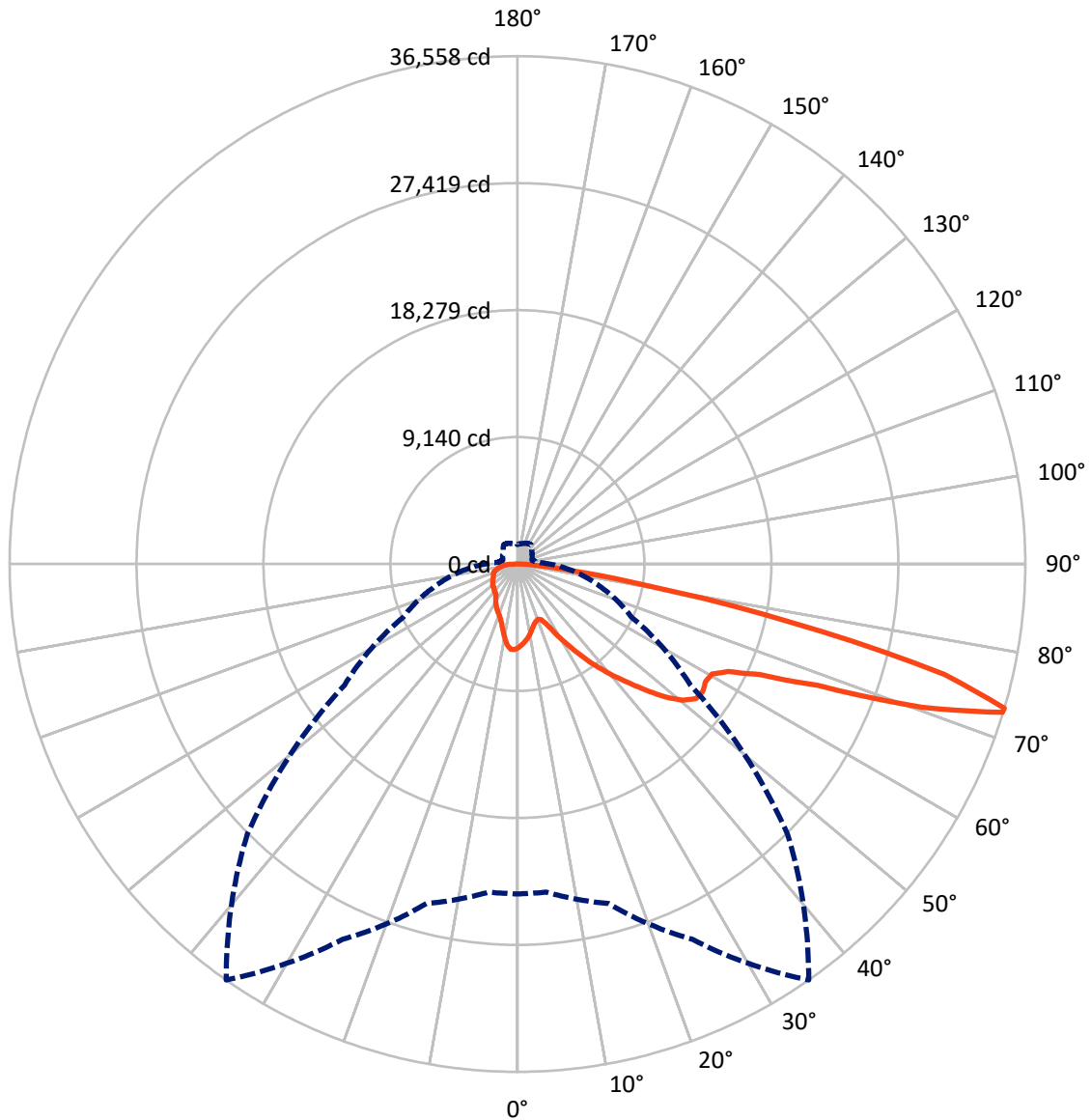
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7619.2	0.0	7619.2
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	32329.0	0.0	32329.0
	% Fixture	80.9	0.0	80.9
Total	Lumens	39948.3	0.0	39948.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.8	1.4
10°-20°	1362.3	3.4
20°-30°	2202.4	5.5
30°-40°	3693.1	9.2
40°-50°	5692.8	14.3
50°-60°	7637.5	19.1
60°-70°	10174.6	25.5
70°-80°	7760.2	19.4
80°-90°	879.6	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°	39948.3	100.0
0°-180°	39948.3	100.0



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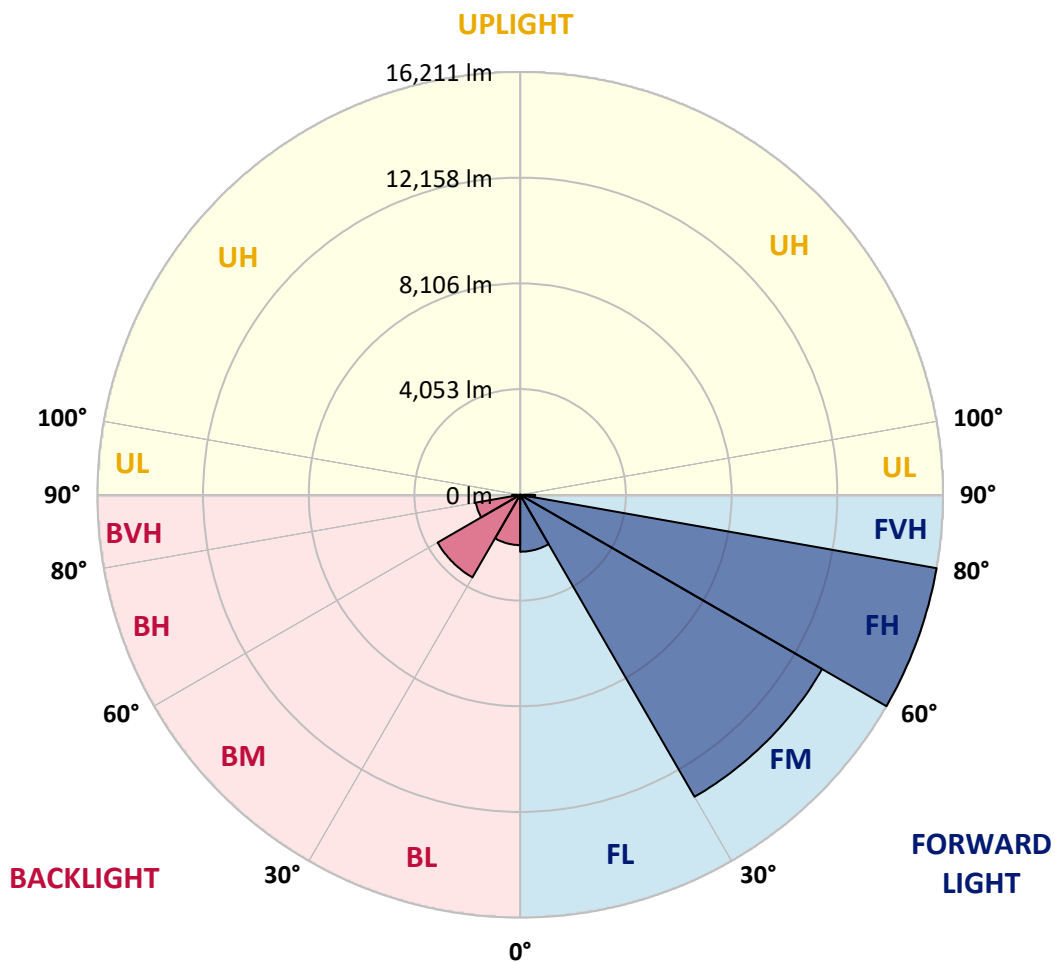
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2182.5	5.5			
FM	(30°-60°)	13367.0	33.5			
FH	(60°-80°)	16211.0	40.6			G5
FVH	(80°-90°)	568.6	1.4			G4/750
BL	(0°-30°)	1928.0	4.8	B3/2500		
BM	(30°-60°)	3656.4	9.2	B3/5000		
BH	(60°-80°)	1723.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	311.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6029.5	6029.5	6029.5	6029.5	6029.5	6029.5	6029.5	6029.5	6029.5	6029.5	6029.5
2.5°	5791.5	5803.1	5789.6	5806.9	5835.7	5866.4	5887.5	5918.2	5952.7	6000.6	6012.2
5°	5519.1	5536.4	5536.4	5567.1	5622.8	5672.6	5718.7	5768.5	5841.5	5923.9	5956.5
7.5°	5219.9	5229.4	5246.7	5292.7	5373.4	5444.3	5509.5	5590.1	5689.9	5799.2	5856.8
10°	4859.2	4872.6	4899.5	4964.8	5074.0	5171.9	5265.9	5377.1	5503.8	5640.0	5712.9
12.5°	4604.1	4600.2	4611.8	4659.7	4755.6	4874.6	5010.8	5152.7	5308.1	5467.4	5555.6
15°	4517.8	4496.7	4452.5	4441.0	4492.8	4611.8	4769.1	4943.6	5129.7	5321.6	5430.9
17.5°	4571.5	4535.0	4414.1	4326.0	4318.3	4408.4	4575.4	4770.9	4985.9	5219.9	5356.1
20°	4909.1	4822.8	4525.4	4320.1	4249.2	4293.3	4439.1	4646.2	4899.5	5210.3	5384.8
22.5°	5716.8	5590.1	4959.0	4577.2	4337.4	4283.7	4393.1	4613.7	4909.1	5329.3	5551.8
25°	6892.7	6712.4	5703.4	5218.0	4723.1	4437.2	4462.1	4688.5	5045.3	5605.5	5874.1
27.5°	7821.2	7704.1	6675.9	6121.5	5425.1	4851.5	4686.5	4876.5	5323.4	6058.2	6332.6
30°	8373.7	8302.7	7715.7	7145.9	6321.0	5511.5	5116.3	5229.4	5758.9	6685.5	6911.9
32.5°	9014.4	8972.2	8684.4	8160.8	7287.9	6378.6	5797.3	5757.1	6342.1	7439.4	7543.0
35°	9678.1	9664.7	9496.0	9119.9	8325.7	7522.0	6700.8	6428.4	6977.1	8222.2	8156.9
37.5°	10295.9	10272.9	10175.0	9956.4	9411.6	8749.7	7621.7	7117.2	7662.0	8970.3	8680.7
40°	11433.5	11253.2	10917.4	10752.4	10508.9	9783.7	8352.6	7759.8	8371.7	9684.0	9133.3
42.5°	12820.4	12527.0	11901.5	11675.2	11640.7	10599.0	8851.4	8383.3	9087.3	10391.9	9578.4
45°	13912.0	13635.7	13096.7	12810.8	12937.5	11337.6	9352.0	9048.9	9824.0	11134.2	10036.9
47.5°	15076.5	14642.9	13929.3	14015.7	14291.9	12035.8	9862.4	9764.5	10631.6	11964.8	10606.7
50°	15118.7	14786.8	14474.1	14990.1	15419.9	12678.6	10501.2	10514.6	11619.6	13010.4	11364.5
52.5°	14241.9	14171.0	14667.9	15479.3	16099.0	13186.9	11228.2	11289.6	12883.8	14211.2	12196.9
55°	13935.0	13854.4	14428.1	15308.6	16191.1	13607.0	12016.7	12127.9	14412.7	15477.5	13008.5
57.5°	14683.2	14504.8	14543.2	15228.1	15966.6	14067.4	12876.1	13100.5	16074.0	16584.3	13530.3
60°	16774.2	16392.5	15667.3	15650.0	16087.4	14758.0	13869.8	14144.1	17800.6	17113.8	13326.9
62.5°	19707.5	19325.7	17967.4	17083.1	17017.8	15897.6	15089.9	15162.8	18798.2	16396.3	12085.8
65°	22882.3	22540.8	21023.4	19774.6	19172.1	17785.2	16507.6	15617.5	18471.9	14422.3	9914.1
67.5°	26736.4	26369.9	25065.5	23912.5	23333.1	20831.6	17503.2	15182.0	16402.1	11172.6	7126.7
70°	29431.6	29057.5	28543.4	29477.7	30895.4	25226.6	17631.8	13411.3	12250.8	7426.0	4289.4
72.5°	25915.2	25740.7	26678.8	30613.3	36518.1	27893.1	15937.8	9764.5	7115.2	3942.2	2482.4
73°	23743.7	23705.2	25305.2	29817.2	36558.4	27482.6	15195.4	9075.8	6102.3	3487.5	2269.4
75°	10721.8	11030.6	14537.4	22774.9	31762.4	22646.4	10695.0	5206.4	3447.3	2409.5	1713.1
77.5°	2576.4	2683.8	4548.4	10815.8	20058.4	13495.7	4845.8	2574.5	2204.3	1701.6	1250.8
80°	1097.3	1133.7	1751.5	3996.0	9444.1	5434.7	2233.0	1724.6	1525.1	1187.4	876.7
82.5°	610.1	648.4	993.7	1812.9	3811.8	1853.2	1362.1	1200.9	1003.3	715.6	569.8
85°	345.3	366.4	581.2	1012.9	1615.2	744.3	815.3	798.0	565.9	368.4	280.1
87.5°	163.1	176.5	280.1	470.0	633.1	291.6	414.4	456.5	354.9	224.4	145.8
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°	6029.5	6029.5	6029.5	6029.5	6029.5	6029.5	6029.5	6029.5	6029.5	6029.5
2.5°	6025.6	6060.2	6100.4	6121.5	6140.7	6163.7	6186.7	6186.7	6190.6	6192.5
5°	5983.4	6054.3	6117.7	6144.6	6150.3	6150.3	6144.6	6113.9	6087.0	6098.5
7.5°	5895.2	5998.8	6052.5	6042.9	5969.9	5885.5	5814.6	5728.2	5684.1	5676.5
10°	5768.5	5887.5	5897.1	5801.2	5620.8	5440.5	5290.9	5145.0	5076.0	5058.7
12.5°	5628.5	5737.8	5676.5	5478.8	5189.2	4926.3	4736.5	4588.8	4523.5	4506.2
15°	5515.3	5590.1	5434.7	5124.0	4759.5	4481.3	4324.0	4214.7	4168.6	4155.2
17.5°	5455.8	5471.2	5187.3	4767.2	4379.7	4147.6	4049.7	3997.9	3980.6	3971.0
20°	5484.7	5377.1	4951.3	4435.3	4068.9	3905.8	3882.8	3869.3	3865.5	3859.8
22.5°	5628.5	5348.4	4734.5	4120.7	3796.5	3725.5	3744.6	3742.8	3738.9	3735.1
25°	5885.5	5373.4	4523.5	3821.4	3568.2	3552.8	3587.4	3587.4	3572.0	3572.0
27.5°	6225.1	5425.1	4287.6	3537.5	3361.0	3363.0	3389.8	3382.1	3364.8	3353.3
30°	6639.5	5457.7	4011.3	3282.3	3167.3	3159.6	3167.3	3134.6	3082.9	3079.0
32.5°	7063.5	5417.4	3690.9	3056.0	2962.0	2944.7	2938.9	2892.9	2833.5	2816.2
35°	7447.1	5269.7	3364.8	2875.6	2766.3	2727.9	2754.8	2739.5	2685.8	2672.3
37.5°	7727.2	4995.5	3071.3	2716.4	2626.2	2616.6	2633.9	2639.7	2576.4	2562.9
40°	7915.2	4623.2	2820.0	2582.1	2599.4	2562.9	2505.4	2465.1	2445.9	2440.1
42.5°	8066.8	4235.7	2608.9	2518.8	2605.1	2499.7	2375.0	2309.7	2344.3	2359.6
45°	8241.3	3857.9	2432.5	2440.1	2576.4	2426.7	2284.8	2221.4	2234.9	2238.7
47.5°	8481.1	3397.4	2242.6	2313.5	2480.5	2376.8	2229.1	2139.0	2075.7	2046.9
50°	8813.0	2852.6	2045.0	2171.6	2386.4	2340.4	2142.8	2046.9	1929.9	1903.0
52.5°	9043.2	2344.3	1881.9	2052.7	2302.0	2267.5	2073.7	1949.0	1826.3	1803.3
55°	8918.5	1947.2	1739.9	1920.3	2190.8	2177.4	2016.2	1849.3	1753.4	1734.2
57.5°	8295.0	1695.8	1630.6	1795.6	2054.6	2100.6	1939.5	1764.9	1695.8	1682.4
60°	7105.6	1538.5	1561.5	1711.2	1943.3	2023.9	1862.7	1718.9	1672.8	1663.2
62.5°	5513.4	1433.1	1509.8	1649.8	1857.0	1970.2	1820.5	1713.1	1695.8	1684.3
65°	3949.9	1348.7	1454.1	1588.4	1778.3	1920.3	1805.2	1705.5	1709.2	1699.6
67.5°	2683.8	1273.8	1387.0	1519.4	1701.6	1876.2	1784.1	1678.6	1726.5	1715.0
70°	1878.0	1200.9	1308.4	1431.1	1605.7	1814.8	1745.7	1638.3	1634.5	1588.4
72.5°	1465.7	1105.0	1200.9	1308.4	1482.9	1728.5	1668.9	1548.1	1484.8	1436.8
73°	1398.5	1082.0	1174.0	1281.5	1456.1	1707.3	1647.9	1523.2	1452.2	1408.1
75°	1156.8	982.2	1066.6	1162.5	1341.0	1607.6	1544.2	1410.0	1319.8	1293.0
77.5°	909.3	840.3	920.9	1007.1	1181.7	1461.8	1390.8	1262.3	1212.4	1189.4
80°	673.3	696.3	767.3	844.0	1024.4	1306.4	1243.1	1114.6	1337.1	1281.5
82.5°	473.8	527.5	592.8	661.8	859.4	1154.8	1078.1	945.7	978.4	813.3
85°	280.1	345.3	406.7	466.2	619.6	957.3	890.2	753.9	617.8	588.9
87.5°	163.1	191.8	209.1	270.5	425.9	721.3	627.3	558.2	320.4	216.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)