

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: P191544

Luminaire Tested: **GLEON-AF-06-LED-E1-T4FT-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191544  
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-06-LED-E1-T4FT-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1200mA 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: 40190.7 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

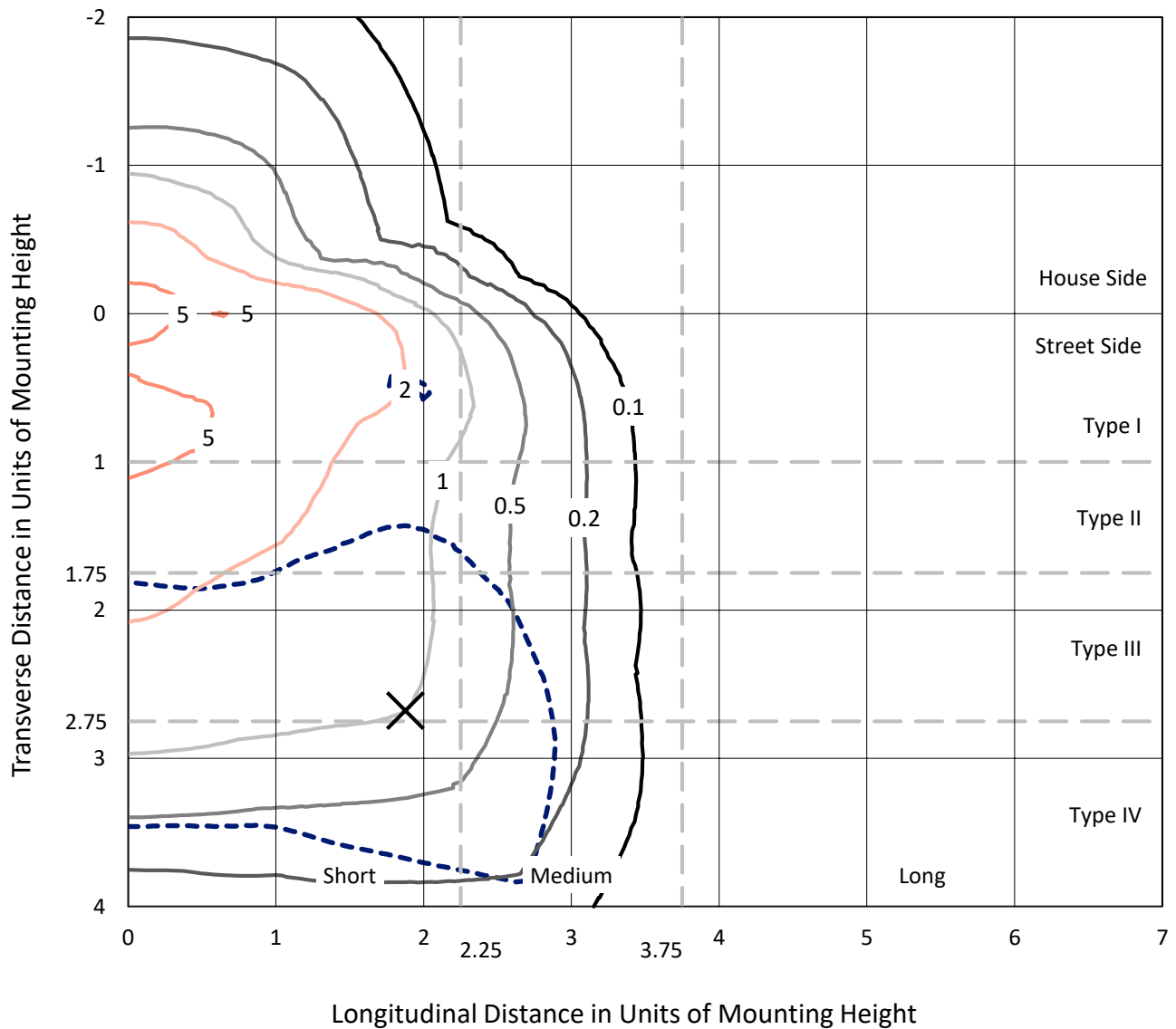
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

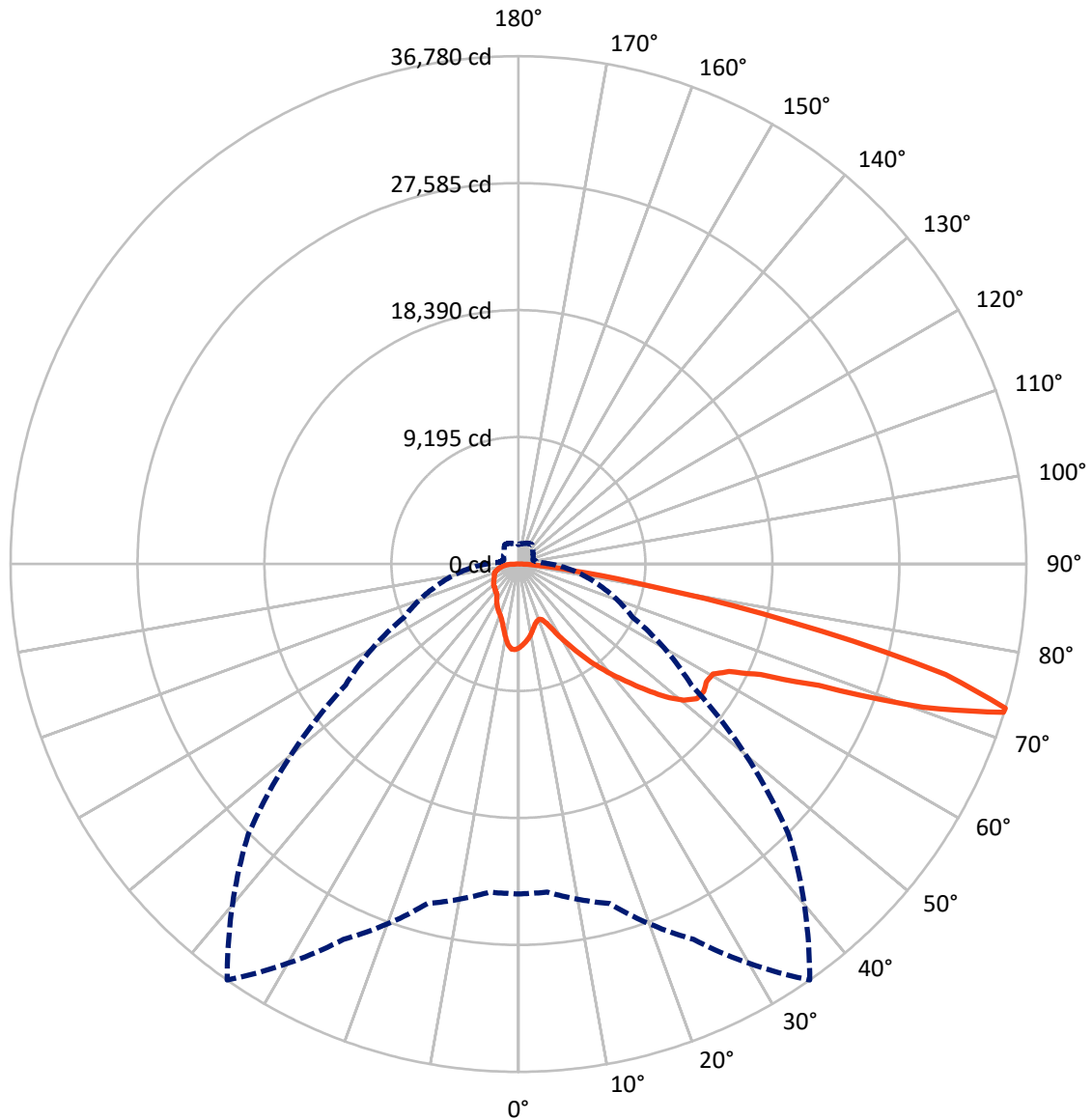
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	7665.5	0.0	7665.5
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	32525.2	0.0	32525.2
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	40190.7	0.0	40190.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.2	1.4
10°-20°	1370.6	3.4
20°-30°	2215.8	5.5
30°-40°	3715.5	9.2
40°-50°	5727.3	14.3
50°-60°	7683.8	19.1
60°-70°	10236.4	25.5
70°-80°	7807.3	19.4
80°-90°	884.9	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°	40190.7	100.0
0°-180°	40190.7	100.0

**Coefficient of Utilization**



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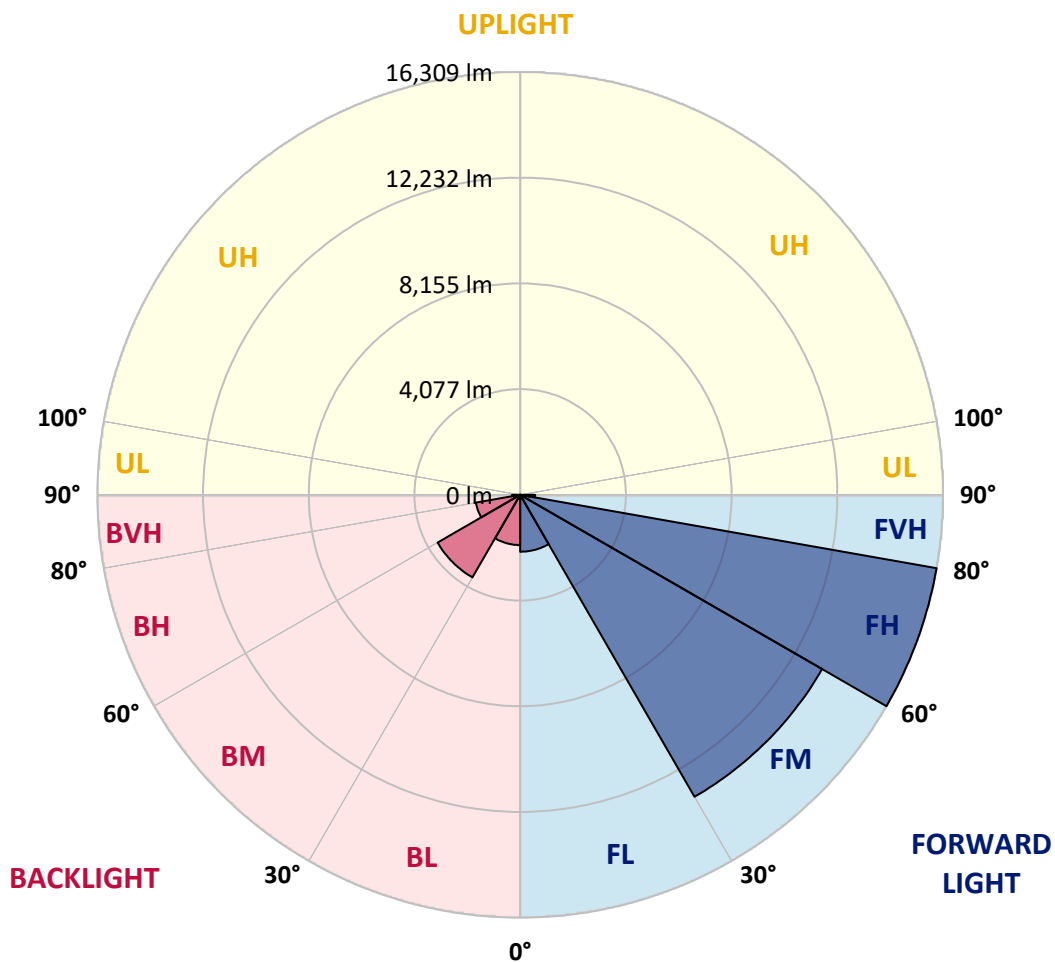
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2195.8	5.5			
FM	(30°-60°)	13448.1	33.5			
FH	(60°-80°)	16309.4	40.6			G5
FVH	(80°-90°)	572.0	1.4			G4/750
BL	(0°-30°)	1939.7	4.8	B3/2500		
BM	(30°-60°)	3678.6	9.2	B3/5000		
BH	(60°-80°)	1734.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	312.9	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°	6066.0	6066.0	6066.0	6066.0	6066.0	6066.0	6066.0	6066.0	6066.0	6066.0	6066.0
2.5°	5826.7	5838.3	5824.8	5842.2	5871.1	5902.0	5923.2	5954.1	5988.9	6037.0	6048.7
5°	5552.7	5570.0	5570.0	5600.9	5656.8	5707.0	5753.4	5803.5	5876.9	5959.9	5992.7
7.5°	5251.5	5261.2	5278.6	5324.9	5406.0	5477.4	5543.0	5624.1	5724.4	5834.4	5892.3
10°	4888.7	4902.2	4929.3	4994.9	5104.8	5203.3	5297.9	5409.8	5537.2	5674.2	5747.6
12.5°	4632.0	4628.1	4639.8	4688.0	4784.5	4904.1	5041.2	5184.0	5340.3	5500.5	5589.3
15°	4545.2	4523.9	4479.6	4467.9	4520.1	4639.8	4798.0	4973.7	5160.9	5353.8	5463.9
17.5°	4599.2	4562.6	4440.9	4352.1	4344.5	4435.2	4603.1	4799.9	5016.1	5251.5	5388.6
20°	4938.9	4852.1	4552.8	4346.4	4275.0	4319.4	4466.0	4674.5	4929.3	5241.9	5417.5
22.5°	5751.4	5624.1	4989.0	4605.0	4363.8	4309.7	4419.8	4641.6	4938.9	5361.6	5585.4
25°	6934.6	6753.1	5737.9	5249.7	4751.7	4464.2	4489.2	4716.9	5075.9	5639.5	5909.7
27.5°	7868.6	7750.9	6716.5	6158.7	5458.1	4881.0	4715.0	4906.1	5355.8	6094.9	6370.9
30°	8424.5	8353.1	7762.5	7189.3	6359.4	5544.9	5147.4	5261.2	5793.9	6726.1	6953.8
32.5°	9069.2	9026.6	8737.1	8210.3	7332.1	6417.3	5832.5	5791.9	6380.7	7484.6	7588.8
35°	9737.0	9723.4	9553.5	9175.3	8376.2	7567.6	6741.6	6467.5	7019.5	8272.0	8206.4
37.5°	10358.4	10335.2	10236.8	10016.7	9468.6	8802.8	7667.9	7160.3	7708.4	9024.8	8733.3
40°	11502.9	11321.4	10983.7	10817.7	10572.6	9843.0	8403.2	7806.9	8422.6	9742.7	9188.8
42.5°	12898.3	12603.0	11973.8	11746.0	11711.4	10663.3	8905.1	8434.1	9142.4	10454.9	9636.5
45°	13996.4	13718.5	13176.2	12888.7	13016.0	11406.4	9408.8	9103.9	9883.5	11201.8	10097.9
47.5°	15168.0	14731.8	14013.8	14100.7	14378.6	12108.9	9922.2	9823.8	10696.1	12037.5	10671.0
50°	15210.5	14876.6	14561.9	15081.2	15513.5	12755.5	10564.9	10578.4	11690.1	13089.4	11433.4
52.5°	14328.4	14257.0	14756.9	15573.3	16196.7	13266.9	11296.3	11358.1	12961.9	14297.6	12271.0
55°	14019.6	13938.5	14515.6	15401.4	16289.3	13689.5	12089.6	12201.6	14500.2	15571.4	13087.4
57.5°	14772.3	14592.8	14631.5	15320.4	16063.5	14152.7	12954.2	13180.0	16171.5	16684.9	13612.4
60°	16876.0	16491.9	15762.4	15745.1	16185.1	14847.6	13954.0	14230.0	17908.6	17217.6	13407.8
62.5°	19827.0	19442.9	18076.5	17186.8	17121.1	15994.0	15181.5	15254.9	18912.2	16495.8	12159.1
65°	23021.2	22677.6	21151.0	19894.6	19288.6	17893.1	16607.7	15712.2	18584.0	14509.8	9974.3
67.5°	26898.6	26529.9	25217.6	24057.6	23474.8	20958.0	17609.4	15274.1	16501.6	11240.4	7170.0
70°	29610.2	29233.9	28716.7	29656.6	31082.9	25379.6	17738.8	13492.7	12325.0	7471.1	4315.5
72.5°	26072.6	25896.9	26840.7	30799.1	36739.7	28062.4	16034.5	9823.8	7158.4	3966.2	2497.4
73°	23887.7	23849.2	25458.8	29998.1	36780.2	27649.3	15287.6	9130.9	6139.3	3508.7	2283.2
75°	10786.8	11097.6	14625.6	22913.1	31955.2	22783.8	10759.8	5238.0	3468.2	2424.1	1723.5
77.5°	2592.1	2700.1	4576.1	10881.4	20180.2	13577.6	4875.2	2590.1	2217.6	1711.9	1258.3
80°	1104.0	1140.6	1762.1	4020.2	9501.5	5467.8	2246.5	1735.1	1534.3	1194.7	882.0
82.5°	613.8	652.3	999.7	1823.8	3834.9	1864.4	1370.3	1208.2	1009.3	719.9	573.3
85°	347.4	368.7	584.8	1019.1	1625.1	748.8	820.3	802.9	569.4	370.5	281.8
87.5°	164.1	177.6	281.8	472.8	636.9	293.4	416.9	459.3	357.0	225.8	146.7
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°	6066.0	6066.0	6066.0	6066.0	6066.0	6066.0	6066.0	6066.0	6066.0	6066.0
2.5°	6062.2	6096.9	6137.4	6158.7	6178.0	6201.1	6224.2	6224.2	6228.1	6230.1
5°	6019.7	6091.2	6154.8	6181.8	6187.6	6187.6	6181.8	6150.9	6123.9	6135.6
7.5°	5931.0	6035.1	6089.2	6079.5	6006.2	5921.2	5849.8	5763.0	5718.6	5710.9
10°	5803.5	5923.2	5932.8	5836.3	5655.0	5473.5	5322.9	5176.3	5106.8	5089.5
12.5°	5662.6	5772.7	5710.9	5512.1	5220.7	4956.3	4765.2	4616.6	4551.0	4533.6
15°	5548.8	5624.1	5467.8	5155.1	4788.3	4508.6	4350.2	4240.2	4193.9	4180.4
17.5°	5488.9	5504.4	5218.8	4796.1	4406.3	4172.7	4074.2	4022.1	4004.8	3995.1
20°	5517.9	5409.8	4981.4	4462.2	4093.5	3929.5	3906.3	3892.8	3889.0	3883.2
22.5°	5662.6	5380.8	4763.3	4145.7	3819.5	3748.1	3767.4	3765.5	3761.6	3757.7
25°	5921.2	5406.0	4551.0	3844.6	3589.8	3574.4	3609.1	3609.1	3593.7	3593.7
27.5°	6262.9	5458.1	4313.6	3558.9	3381.4	3383.3	3410.3	3402.6	3385.3	3373.7
30°	6679.8	5490.9	4035.6	3302.3	3186.5	3178.7	3186.5	3153.7	3101.5	3097.7
32.5°	7106.3	5450.4	3713.3	3074.5	2980.0	2962.6	2956.7	2910.5	2850.7	2833.3
35°	7492.3	5301.7	3385.3	2893.1	2783.0	2744.5	2771.5	2756.0	2702.0	2688.5
37.5°	7774.1	5025.8	3089.9	2732.9	2642.2	2632.6	2650.0	2655.7	2592.1	2578.4
40°	7963.3	4651.4	2837.2	2597.8	2615.2	2578.4	2520.6	2480.0	2460.8	2455.0
42.5°	8115.7	4261.5	2624.8	2534.2	2621.0	2514.8	2389.3	2323.7	2358.5	2374.0
45°	8291.3	3881.3	2447.2	2455.0	2592.1	2441.5	2298.7	2234.9	2248.4	2252.3
47.5°	8532.5	3418.1	2256.2	2327.6	2495.5	2391.2	2242.7	2152.0	2088.3	2059.3
50°	8866.4	2869.9	2057.4	2184.8	2401.0	2354.6	2155.9	2059.3	1941.6	1914.6
52.5°	9098.1	2358.5	1893.4	2065.1	2316.1	2281.3	2086.3	1960.9	1837.3	1814.2
55°	8972.6	1959.0	1750.5	1931.9	2204.0	2190.5	2028.4	1860.5	1764.1	1744.7
57.5°	8345.3	1706.2	1640.5	1806.5	2067.1	2113.3	1951.3	1775.6	1706.2	1692.6
60°	7148.8	1547.8	1571.0	1721.5	1955.1	2036.2	1874.0	1729.3	1683.0	1673.3
62.5°	5546.8	1441.7	1518.9	1659.8	1868.2	1982.2	1831.6	1723.5	1706.2	1694.5
65°	3973.9	1356.8	1462.9	1598.1	1789.1	1931.9	1816.1	1715.8	1719.7	1710.0
67.5°	2700.1	1281.6	1395.4	1528.6	1711.9	1887.5	1794.9	1688.8	1737.0	1725.4
70°	1889.5	1208.2	1316.2	1439.8	1615.4	1825.8	1756.3	1648.3	1644.4	1598.1
72.5°	1474.5	1111.6	1208.2	1316.2	1491.9	1738.9	1679.1	1557.5	1493.8	1445.5
73°	1407.0	1088.5	1181.2	1289.2	1464.9	1717.7	1657.9	1532.4	1461.0	1416.6
75°	1163.8	988.2	1073.1	1169.5	1349.1	1617.4	1553.7	1418.5	1327.9	1300.8
77.5°	914.8	845.4	926.4	1013.2	1188.9	1470.7	1399.3	1270.0	1219.8	1196.6
80°	677.4	700.6	772.0	849.3	1030.6	1314.3	1250.7	1121.4	1345.2	1289.2
82.5°	476.7	530.7	596.4	665.8	864.6	1161.9	1084.6	951.4	984.3	818.4
85°	281.8	347.4	409.2	469.0	623.4	963.1	895.5	758.5	621.4	592.5
87.5°	164.1	193.0	210.4	272.1	428.4	725.7	631.2	561.6	322.3	218.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)