

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: P191516

Luminaire Tested: **GLEON-AF-08-LED-E1-T4FT-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191516  
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-08-LED-E1-T4FT-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 32345.7 lumens  
Efficiency: N/A  
Efficacy: 125.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

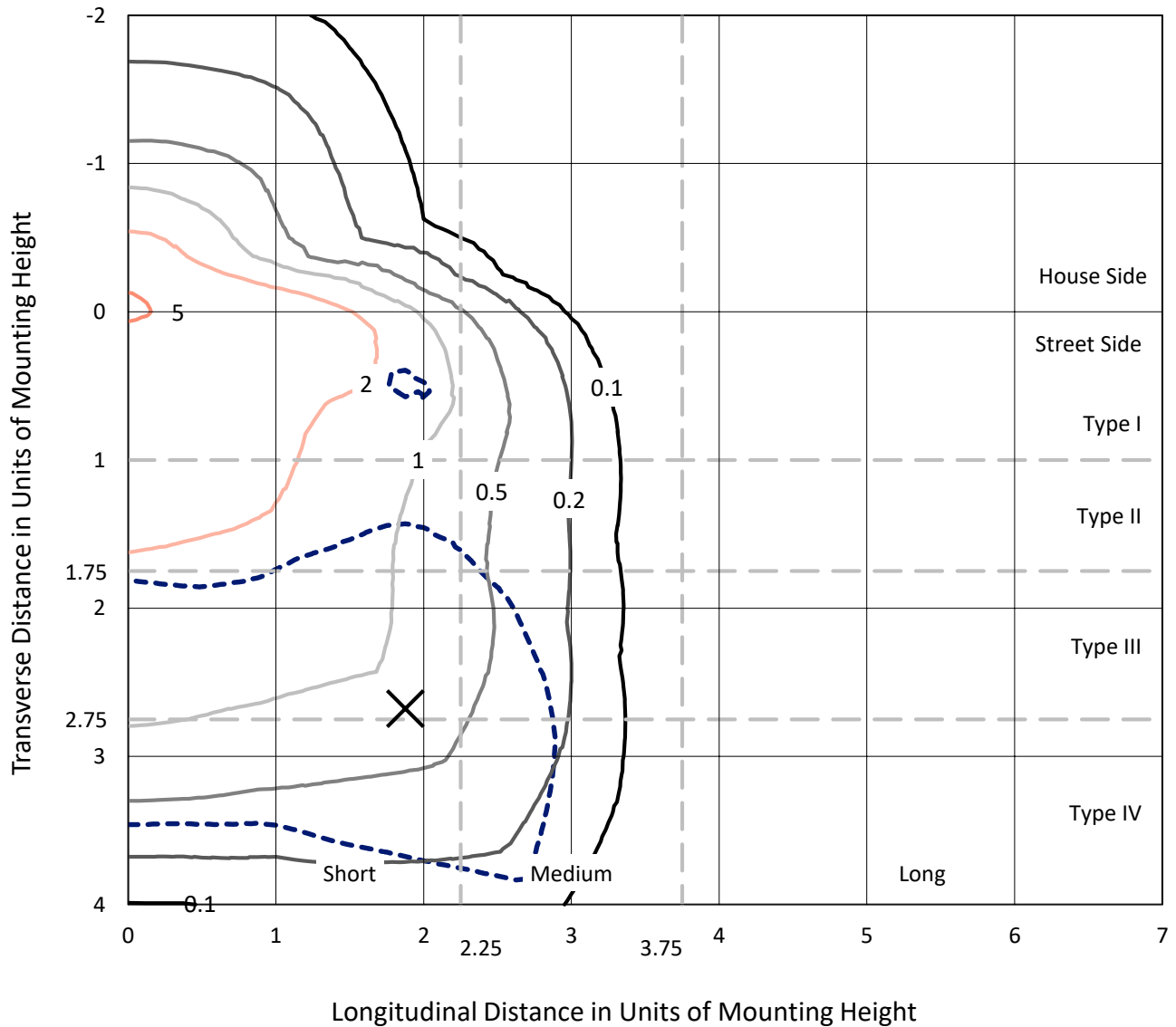
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

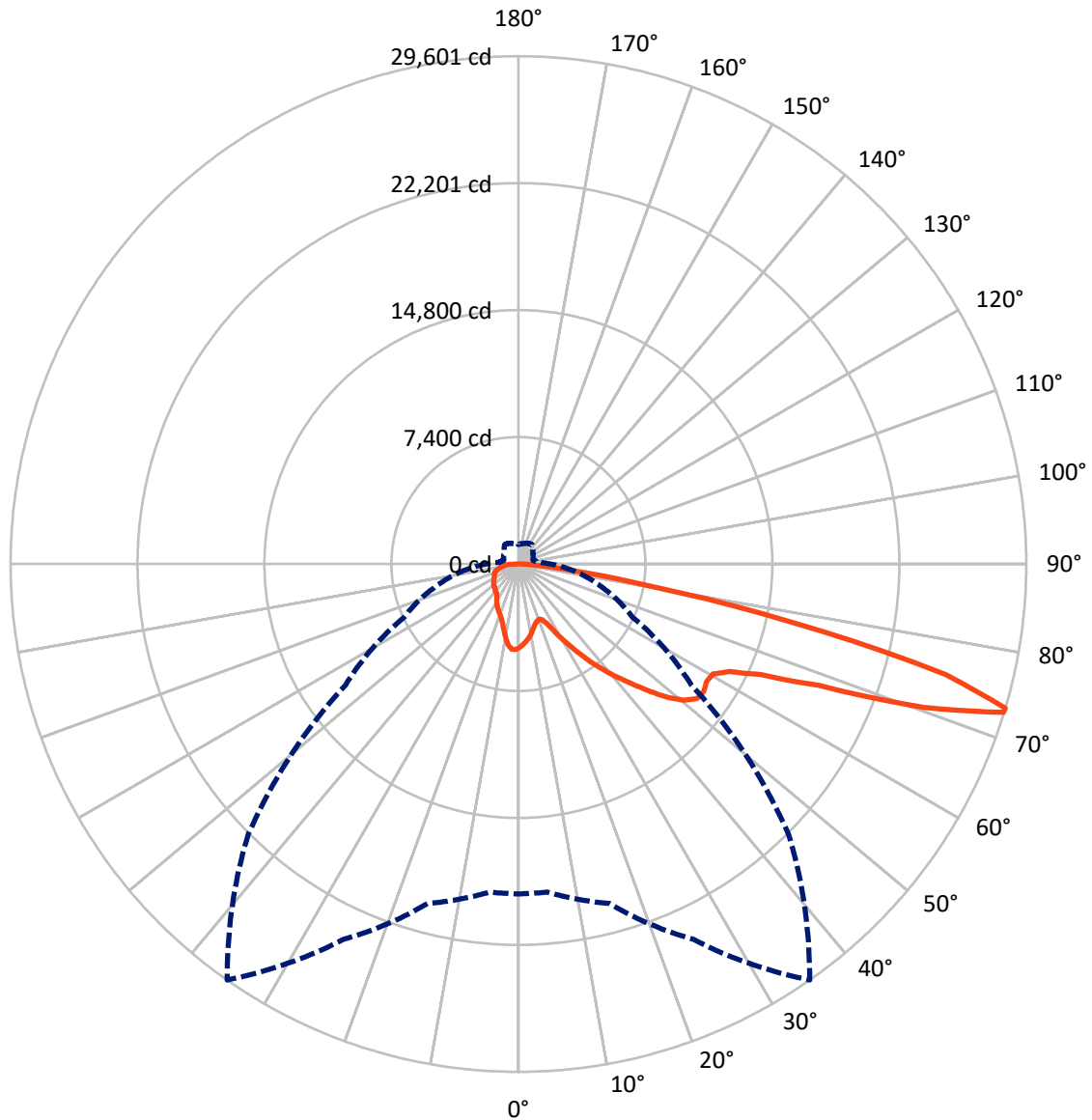
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 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	6169.2	0.0	6169.2
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	26176.5	0.0	26176.5
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	32345.7	0.0	32345.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	442.0	1.4
10°-20°	1103.1	3.4
20°-30°	1783.3	5.5
30°-40°	2990.3	9.2
40°-50°	4609.4	14.3
50°-60°	6184.0	19.1
60°-70°	8238.3	25.5
70°-80°	6283.3	19.4
80°-90°	712.2	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°	32345.7	100.0
0°-180°	32345.7	100.0



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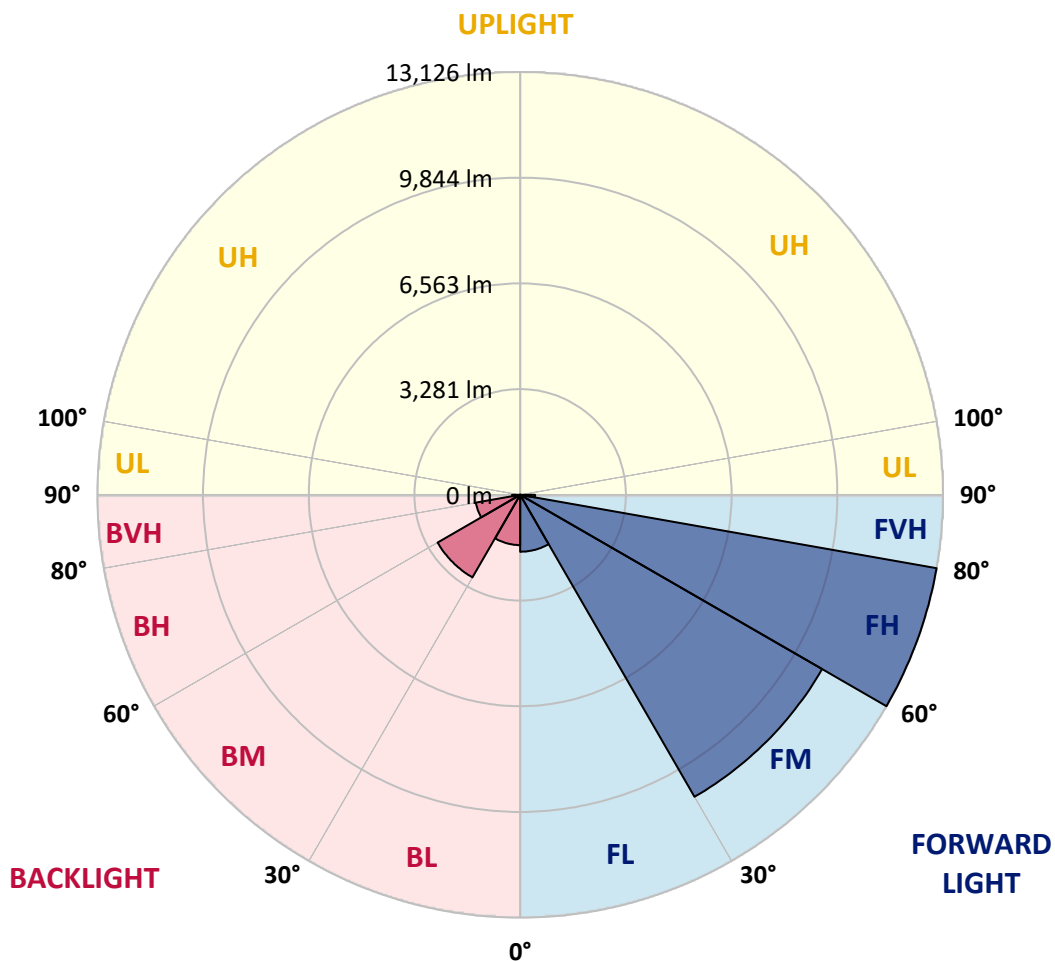
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1767.2	5.5			
FM	(30°-60°)	10823.1	33.5			
FH	(60°-80°)	13125.9	40.6			G5
FVH	(80°-90°)	460.4	1.4			G3/500
BL	(0°-30°)	1561.1	4.8	B3/2500		
BM	(30°-60°)	2960.5	9.2	B3/5000		
BH	(60°-80°)	1395.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	251.8	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°	4881.9	4881.9	4881.9	4881.9	4881.9	4881.9	4881.9	4881.9	4881.9	4881.9	4881.9
2.5°	4689.4	4698.7	4687.8	4701.8	4725.1	4750.0	4767.1	4791.9	4819.8	4858.7	4868.0
5°	4468.8	4482.8	4482.8	4507.6	4552.6	4593.0	4630.4	4670.7	4729.7	4796.5	4822.9
7.5°	4226.5	4234.3	4248.2	4285.6	4350.7	4408.2	4461.0	4526.3	4607.1	4695.5	4742.2
10°	3934.5	3945.3	3967.1	4019.9	4108.5	4187.7	4263.8	4353.9	4456.4	4566.7	4625.7
12.5°	3727.8	3724.8	3734.1	3772.9	3850.6	3946.9	4057.2	4172.1	4297.9	4426.8	4498.3
15°	3658.0	3640.9	3605.2	3595.9	3637.8	3734.1	3861.4	4002.8	4153.5	4308.8	4397.4
17.5°	3701.4	3672.0	3574.1	3502.7	3496.4	3569.5	3704.6	3863.0	4037.0	4226.5	4336.8
20°	3974.9	3904.9	3664.2	3498.0	3440.5	3476.3	3594.3	3762.0	3967.1	4218.8	4360.0
22.5°	4628.8	4526.3	4015.3	3706.2	3512.0	3468.5	3557.0	3735.6	3974.9	4315.0	4495.3
25°	5580.9	5434.9	4617.9	4224.9	3824.2	3592.7	3613.0	3796.3	4085.2	4538.7	4756.1
27.5°	6332.8	6238.0	5405.5	4956.5	4392.7	3928.2	3794.6	3948.5	4310.4	4905.3	5127.4
30°	6780.1	6722.6	6247.3	5786.0	5118.0	4462.6	4142.6	4234.3	4662.9	5413.1	5596.5
32.5°	7298.9	7264.7	7031.8	6607.6	5900.9	5164.7	4694.0	4661.4	5135.1	6023.6	6107.5
35°	7836.3	7825.5	7688.8	7384.3	6741.2	6090.4	5425.6	5205.1	5649.2	6657.4	6604.6
37.5°	8336.4	8317.8	8238.6	8061.6	7620.4	7084.5	6171.2	5762.7	6203.8	7263.2	7028.6
40°	9257.6	9111.5	8839.7	8706.1	8508.9	7921.7	6763.0	6283.1	6778.5	7841.0	7395.2
42.5°	10380.6	10143.0	9636.6	9453.3	9425.4	8581.9	7166.9	6787.9	7357.9	8414.2	7755.5
45°	11264.4	11040.7	10604.3	10372.8	10475.3	9179.9	7572.3	7326.9	7954.4	9015.3	8126.8
47.5°	12207.3	11856.2	11278.4	11348.3	11571.9	9745.3	7985.5	7906.2	8608.3	9687.9	8588.1
50°	12241.4	11972.7	11719.5	12137.3	12485.3	10265.6	8502.7	8513.5	9408.3	10534.3	9201.6
52.5°	11531.6	11474.1	11876.5	12533.4	13035.2	10677.3	9091.4	9141.1	10431.8	11506.8	9875.8
55°	11283.0	11217.8	11682.2	12395.2	13109.7	11017.5	9729.8	9819.8	11669.8	12531.9	10532.8
57.5°	11888.8	11744.4	11775.5	12329.9	12928.0	11390.3	10425.6	10607.4	13015.0	13428.2	10955.3
60°	13581.9	13272.8	12685.7	12671.7	13025.8	11949.4	11230.3	11452.3	14413.0	13856.9	10790.7
62.5°	15956.9	15647.8	14548.1	13832.0	13779.1	12872.1	12218.1	12277.1	15220.6	13276.0	9785.6
65°	18527.6	18251.1	17022.4	16011.2	15523.5	14400.5	13366.0	12645.3	14956.6	11677.6	8027.4
67.5°	21648.1	21351.4	20295.2	19361.7	18892.6	16867.1	14172.2	12292.7	13280.6	9046.4	5770.5
70°	23830.5	23527.6	23111.3	23867.8	25015.6	20425.7	14276.2	10859.0	9919.2	6012.8	3473.1
72.5°	20983.3	20842.0	21601.6	24787.3	29568.3	22584.7	12904.7	7906.2	5761.2	3192.0	2010.0
73°	19225.0	19193.9	20489.4	24142.7	29600.9	22252.4	12303.5	7348.6	4941.0	2823.9	1837.5
75°	8681.3	8931.4	11770.8	18440.6	25717.7	18336.5	8659.6	4215.6	2791.2	1951.0	1387.1
77.5°	2086.1	2173.1	3682.8	8757.4	16241.2	10927.4	3923.6	2084.5	1784.7	1377.8	1012.7
80°	888.4	918.0	1418.1	3235.5	7646.9	4400.4	1808.1	1396.4	1234.9	961.5	709.8
82.5°	494.0	525.0	804.6	1467.8	3086.3	1500.5	1102.8	972.3	812.3	579.4	461.4
85°	279.6	296.7	470.7	820.1	1307.8	602.7	660.1	646.2	458.2	298.2	226.8
87.5°	132.1	142.9	226.8	380.5	512.6	236.1	335.5	369.7	287.3	181.8	118.0
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°	4881.9	4881.9	4881.9	4881.9	4881.9	4881.9	4881.9	4881.9	4881.9	4881.9
2.5°	4878.9	4906.8	4939.4	4956.5	4972.1	4990.7	5009.4	5009.4	5012.5	5014.0
5°	4844.7	4902.2	4953.4	4975.1	4979.8	4979.8	4975.1	4950.4	4928.6	4937.9
7.5°	4773.2	4857.1	4900.7	4892.9	4833.9	4765.5	4708.0	4638.1	4602.4	4596.1
10°	4670.7	4767.1	4774.8	4697.1	4551.1	4405.1	4283.9	4165.9	4110.0	4096.0
12.5°	4557.3	4645.8	4596.1	4436.1	4201.7	3988.8	3835.0	3715.5	3662.7	3648.7
15°	4465.7	4526.3	4400.4	4148.8	3853.7	3628.5	3501.2	3412.6	3375.3	3364.4
17.5°	4417.5	4430.0	4200.0	3859.9	3546.2	3358.2	3279.0	3237.0	3223.1	3215.3
20°	4440.8	4353.9	4009.0	3591.2	3294.5	3162.5	3143.8	3133.0	3129.8	3125.2
22.5°	4557.3	4330.6	3833.5	3336.5	3074.0	3016.5	3032.0	3030.5	3027.3	3024.3
25°	4765.5	4350.7	3662.7	3094.1	2889.1	2876.6	2904.7	2904.7	2892.2	2892.2
27.5°	5040.4	4392.7	3471.6	2864.3	2721.4	2722.9	2744.7	2738.4	2724.4	2715.1
30°	5375.9	4419.0	3247.9	2657.6	2564.4	2558.3	2564.4	2538.0	2496.1	2493.0
32.5°	5719.2	4386.5	2988.6	2474.4	2398.3	2384.3	2379.6	2342.4	2294.2	2280.3
35°	6029.9	4266.8	2724.4	2328.3	2239.9	2208.8	2230.5	2218.1	2174.6	2163.7
37.5°	6256.7	4044.7	2486.8	2199.4	2126.4	2118.6	2132.6	2137.4	2086.1	2075.2
40°	6408.9	3743.4	2283.3	2090.7	2104.7	2075.2	2028.6	1996.0	1980.4	1975.7
42.5°	6531.5	3429.6	2112.5	2039.5	2109.3	2023.9	1922.9	1870.2	1898.1	1910.6
45°	6672.9	3123.7	1969.6	1975.7	2086.1	1964.9	1850.0	1798.7	1809.6	1812.7
47.5°	6867.1	2750.8	1815.8	1873.2	2008.4	1924.5	1804.9	1732.0	1680.6	1657.4
50°	7135.8	2309.7	1655.9	1758.4	1932.3	1895.0	1735.0	1657.4	1562.6	1540.9
52.5°	7322.2	1898.1	1523.8	1662.0	1863.9	1836.0	1679.1	1578.1	1478.7	1460.1
55°	7221.2	1576.6	1408.8	1554.9	1773.9	1763.0	1632.5	1497.4	1419.7	1404.2
57.5°	6716.4	1373.1	1320.3	1453.9	1663.5	1700.9	1570.3	1429.1	1373.1	1362.3
60°	5753.4	1245.7	1264.4	1385.5	1573.5	1638.7	1508.2	1391.7	1354.5	1346.7
62.5°	4464.2	1160.3	1222.4	1335.9	1503.5	1595.2	1474.1	1387.1	1373.1	1363.8
65°	3198.3	1092.0	1177.4	1286.2	1439.9	1554.9	1461.6	1380.9	1384.0	1376.2
67.5°	2173.1	1031.3	1123.0	1230.2	1377.8	1519.1	1444.5	1359.1	1398.0	1388.7
70°	1520.6	972.3	1059.4	1158.8	1300.1	1469.4	1413.5	1326.5	1323.4	1286.2
72.5°	1186.7	894.7	972.3	1059.4	1200.7	1399.5	1351.3	1253.5	1202.3	1163.4
73°	1132.3	876.1	950.6	1037.6	1179.0	1382.4	1334.2	1233.3	1175.9	1140.1
75°	936.6	795.2	863.6	941.3	1085.8	1301.6	1250.4	1141.6	1068.7	1046.9
77.5°	736.2	680.4	745.5	815.5	956.9	1183.6	1126.2	1022.0	981.7	963.0
80°	545.2	563.9	621.3	683.4	829.4	1057.8	1006.5	902.4	1082.6	1037.6
82.5°	383.7	427.2	480.0	535.9	695.9	935.1	873.0	765.8	792.2	658.6
85°	226.8	279.6	329.3	377.5	501.8	775.1	720.8	610.4	500.1	476.9
87.5°	132.1	155.3	169.3	219.0	344.8	584.0	507.9	452.0	259.4	175.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)