

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: P194058

Luminaire Tested: **GLEON-AF-10-LED-E1-T4FT-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194058  
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-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 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: 31866 lumens  
Efficiency: N/A  
Efficacy: 98.7 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

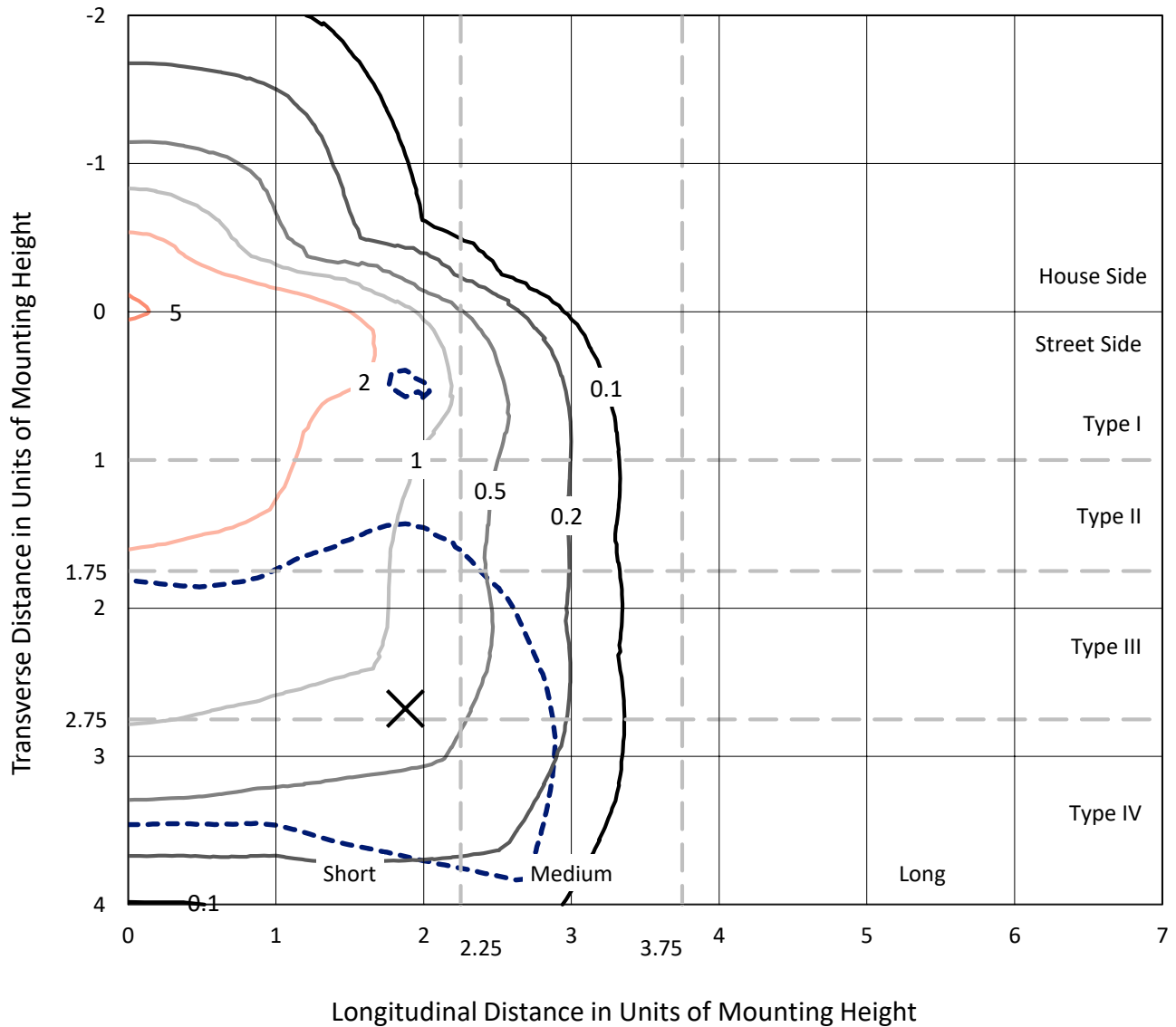


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

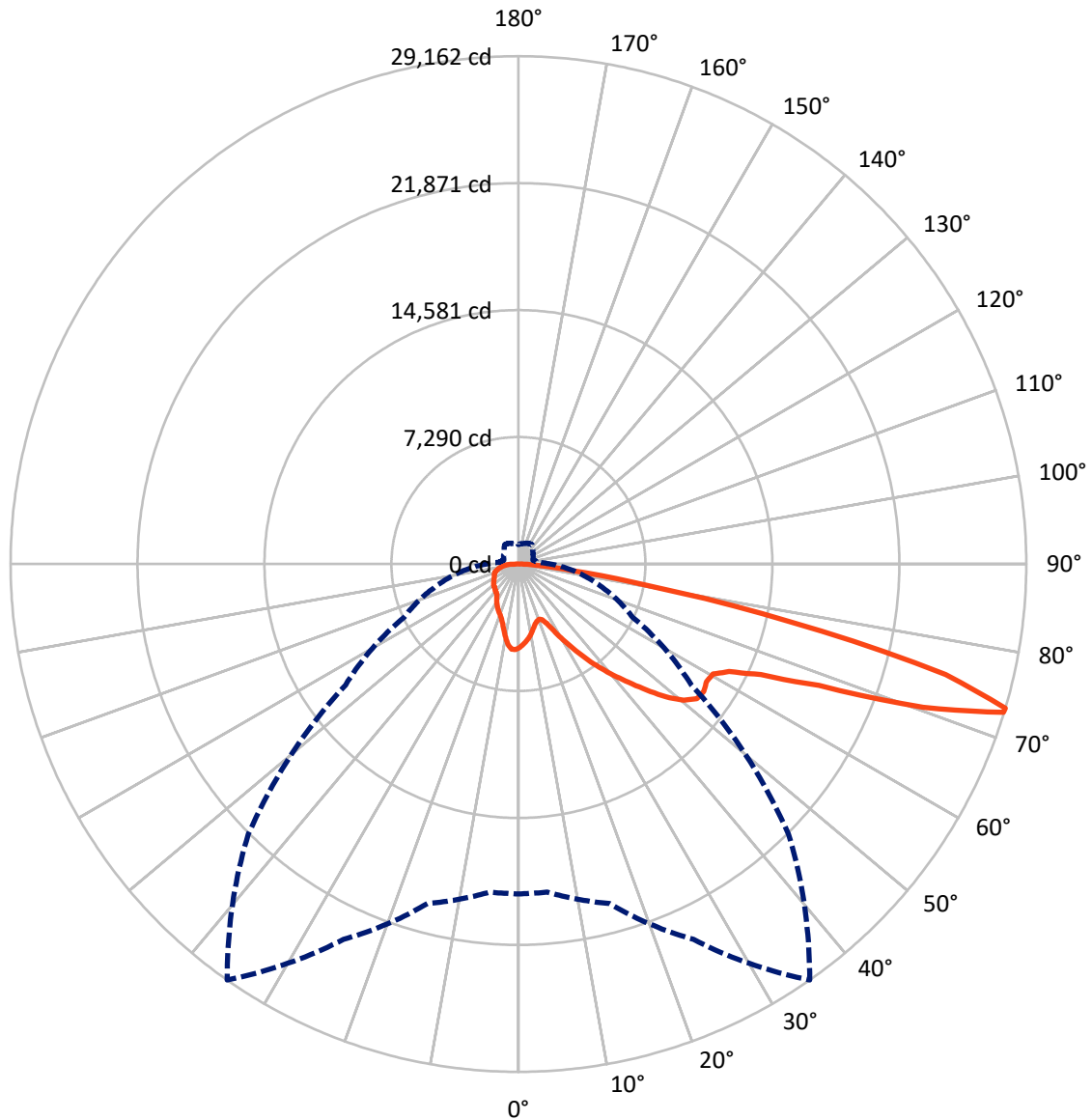


Based on 30 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - Non-Cutoff

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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	6077.7	0.0	6077.7
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	25788.3	0.0	25788.3
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	31866.0	0.0	31866.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	435.4	1.4
10°-20°	1086.7	3.4
20°-30°	1756.8	5.5
30°-40°	2945.9	9.2
40°-50°	4541.0	14.3
50°-60°	6092.3	19.1
60°-70°	8116.1	25.5
70°-80°	6190.1	19.4
80°-90°	701.6	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°	31866.0	100.0
0°-180°	31866.0	100.0



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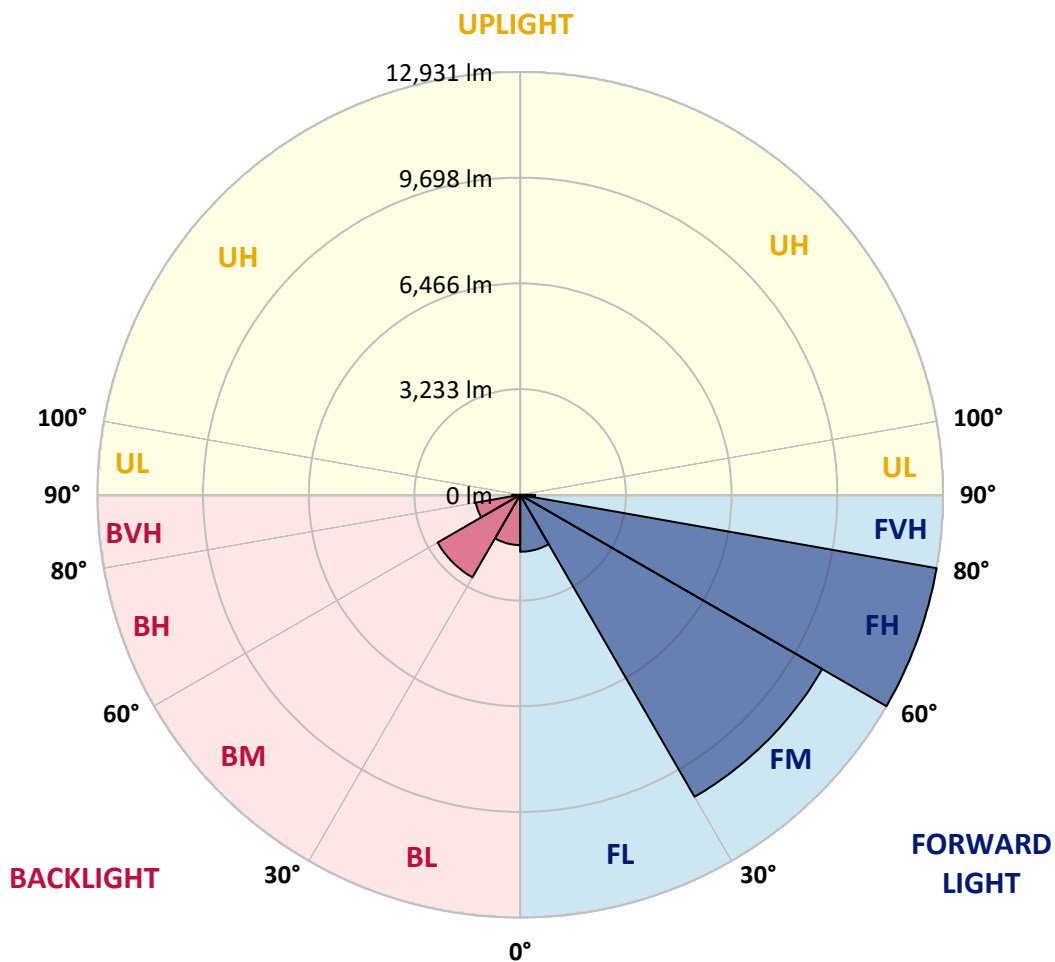
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1741.0	5.5			
FM (30°-60°)	10662.6	33.5			
FH (60°-80°)	12931.2	40.6			G5
FVH (80°-90°)	453.5	1.4			G3/500
BL (0°-30°)	1538.0	4.8	B3/2500		
BM (30°-60°)	2916.6	9.2	B3/5000		
BH (60°-80°)	1375.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	248.1	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°	4809.6	4809.6	4809.6	4809.6	4809.6	4809.6	4809.6	4809.6	4809.6	4809.6	4809.6
2.5°	4619.8	4629.0	4618.3	4632.1	4655.0	4679.5	4696.3	4720.8	4748.4	4786.6	4795.8
5°	4402.5	4416.3	4416.3	4440.8	4485.2	4524.9	4561.7	4601.5	4659.6	4725.4	4751.4
7.5°	4163.8	4171.5	4185.2	4222.0	4286.2	4342.8	4394.9	4459.1	4538.7	4625.9	4671.8
10°	3876.1	3886.8	3908.3	3960.3	4047.5	4125.5	4200.5	4289.3	4390.3	4498.9	4557.1
12.5°	3672.6	3669.5	3678.7	3717.0	3793.5	3888.4	3997.0	4110.2	4234.2	4361.2	4431.6
15°	3603.7	3586.9	3551.7	3542.5	3583.8	3678.7	3804.2	3943.4	4091.9	4244.9	4332.1
17.5°	3646.6	3617.5	3521.1	3450.7	3444.6	3516.5	3649.6	3805.7	3977.1	4163.8	4272.5
20°	3915.9	3847.0	3609.9	3446.1	3389.5	3424.7	3541.0	3706.3	3908.3	4156.2	4295.4
22.5°	4560.1	4459.1	3955.7	3651.2	3459.9	3417.0	3504.3	3680.2	3915.9	4251.0	4428.5
25°	5498.2	5354.3	4549.4	4162.3	3767.5	3539.5	3559.4	3739.9	4024.6	4471.4	4685.6
27.5°	6238.8	6145.5	5325.3	4883.0	4327.5	3870.0	3738.4	3889.9	4246.4	4832.5	5051.3
30°	6679.5	6622.9	6154.7	5700.2	5042.2	4396.4	4081.2	4171.5	4593.8	5332.9	5513.5
32.5°	7190.6	7157.0	6927.4	6509.7	5813.4	5088.1	4624.4	4592.3	5059.0	5934.3	6016.9
35°	7720.1	7709.4	7574.7	7274.8	6641.3	6000.1	5345.2	5127.9	5565.5	6558.6	6506.6
37.5°	8212.8	8194.5	8116.4	7942.0	7507.4	6979.5	6079.7	5677.2	6111.8	7155.4	6924.4
40°	9120.3	8976.4	8708.6	8577.0	8382.7	7804.3	6662.7	6189.9	6678.0	7724.7	7285.5
42.5°	10226.6	9992.5	9493.7	9313.1	9285.5	8454.6	7060.6	6687.2	7248.8	8289.4	7640.5
45°	11097.4	10877.0	10447.0	10219.0	10320.0	9043.8	7460.0	7218.2	7836.4	8881.6	8006.3
47.5°	12026.2	11680.4	11111.1	11180.0	11400.3	9600.8	7867.0	7789.0	8480.6	9544.2	8460.7
50°	12059.9	11795.2	11545.7	11957.4	12300.1	10113.4	8376.6	8387.3	9268.7	10378.1	9065.2
52.5°	11360.6	11303.9	11700.3	12347.6	12841.8	10518.9	8956.5	9005.5	10277.1	11336.1	9729.3
55°	11115.7	11051.5	11509.0	12211.4	12915.3	10854.0	9585.5	9674.2	11496.8	12346.0	10376.6
57.5°	11712.5	11570.2	11600.8	12147.1	12736.3	11221.3	10271.0	10450.1	12821.9	13229.0	10792.8
60°	13380.5	13076.0	12497.5	12483.8	12832.7	11772.2	11063.7	11282.5	14199.2	13651.3	10630.6
62.5°	15720.2	15415.7	14332.3	13626.9	13574.8	12681.2	12036.9	12095.1	14994.9	13079.0	9640.6
65°	18252.8	17980.4	16770.0	15773.8	15293.3	14186.9	13167.8	12457.7	14734.8	11504.4	7908.3
67.5°	21327.1	21034.8	19994.2	19074.5	18612.4	16617.0	13962.0	12110.4	13083.6	8912.2	5684.9
70°	23477.1	23178.7	22768.6	23513.8	24644.6	20122.8	14064.5	10698.0	9772.2	5923.6	3421.6
72.5°	20672.1	20532.9	21281.2	24419.7	29129.8	22249.8	12713.3	7789.0	5675.7	3144.7	1980.1
73°	18939.9	18909.3	20185.5	23784.6	29161.9	21922.3	12121.1	7239.6	4867.7	2782.0	1810.3
75°	8552.6	8798.9	11596.2	18167.1	25336.3	18064.6	8531.1	4153.1	2749.9	1922.0	1366.5
77.5°	2055.1	2140.8	3628.2	8627.5	16000.3	10765.3	3865.4	2053.6	1758.3	1357.3	997.7
80°	875.3	904.4	1397.1	3187.5	7533.4	4335.2	1781.2	1375.7	1216.5	947.2	699.3
82.5°	486.6	517.2	792.7	1446.1	3040.6	1478.2	1086.5	957.9	800.3	570.8	454.5
85°	275.4	292.3	463.7	808.0	1288.5	593.7	650.4	636.6	451.4	293.8	223.4
87.5°	130.1	140.8	223.4	374.9	505.0	232.6	330.5	364.2	283.1	179.0	116.3
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°	4809.6	4809.6	4809.6	4809.6	4809.6	4809.6	4809.6	4809.6	4809.6	4809.6
2.5°	4806.5	4834.1	4866.2	4883.0	4898.3	4916.7	4935.0	4935.0	4938.1	4939.6
5°	4772.8	4829.5	4880.0	4901.4	4906.0	4906.0	4901.4	4876.9	4855.5	4864.7
7.5°	4702.5	4785.1	4827.9	4820.3	4762.1	4694.8	4638.2	4569.3	4534.1	4528.0
10°	4601.5	4696.3	4704.0	4627.5	4483.6	4339.8	4220.4	4104.1	4049.0	4035.3
12.5°	4489.7	4577.0	4528.0	4370.4	4139.3	3929.7	3778.2	3660.4	3608.3	3594.6
15°	4399.5	4459.1	4335.2	4087.3	3796.5	3574.7	3449.2	3362.0	3325.2	3314.5
17.5°	4352.0	4364.3	4137.8	3802.7	3493.6	3308.4	3230.4	3189.0	3175.3	3167.6
20°	4375.0	4289.3	3949.6	3537.9	3245.7	3115.6	3097.2	3086.5	3083.4	3078.9
22.5°	4489.7	4266.3	3776.7	3287.0	3028.4	2971.7	2987.0	2985.5	2982.5	2979.4
25°	4694.8	4286.2	3608.3	3048.3	2846.3	2834.0	2861.6	2861.6	2849.3	2849.3
27.5°	4965.7	4327.5	3420.1	2821.8	2681.0	2682.5	2703.9	2697.8	2684.1	2674.9
30°	5296.2	4353.6	3199.7	2618.3	2526.4	2520.3	2526.4	2500.4	2459.1	2456.0
32.5°	5634.4	4321.4	2944.2	2437.7	2362.7	2348.9	2344.3	2307.6	2260.2	2246.4
35°	5940.4	4203.6	2684.1	2293.8	2206.6	2176.0	2197.4	2185.2	2142.3	2131.6
37.5°	6163.8	3984.8	2449.9	2166.8	2094.9	2087.3	2101.0	2105.6	2055.1	2044.4
40°	6313.8	3687.9	2249.5	2059.7	2073.5	2044.4	1998.5	1966.4	1951.1	1946.5
42.5°	6434.7	3378.8	2081.1	2009.2	2078.1	1993.9	1894.4	1842.4	1870.0	1882.2
45°	6573.9	3077.3	1940.4	1946.5	2055.1	1935.8	1822.5	1772.0	1782.7	1785.8
47.5°	6765.2	2710.1	1788.9	1845.5	1978.6	1896.0	1778.1	1706.2	1655.7	1632.8
50°	7030.0	2275.5	1631.2	1732.2	1903.6	1866.9	1709.3	1632.8	1539.4	1518.0
52.5°	7213.6	1870.0	1501.2	1637.4	1836.3	1808.8	1654.2	1554.7	1456.8	1438.4
55°	7114.1	1553.2	1387.9	1531.8	1747.5	1736.8	1608.3	1475.2	1398.6	1383.3
57.5°	6616.8	1352.7	1300.7	1432.3	1638.9	1675.6	1547.1	1407.8	1352.7	1342.0
60°	5668.0	1227.3	1245.6	1365.0	1550.1	1614.4	1485.9	1371.1	1334.4	1326.7
62.5°	4397.9	1143.1	1204.3	1316.0	1481.3	1571.6	1452.2	1366.5	1352.7	1343.6
65°	3150.8	1075.8	1159.9	1267.0	1418.5	1531.8	1440.0	1360.4	1363.5	1355.8
67.5°	2140.8	1016.1	1106.4	1212.0	1357.3	1496.6	1423.1	1339.0	1377.2	1368.0
70°	1498.1	957.9	1043.6	1141.6	1280.8	1447.6	1392.5	1306.8	1303.8	1267.0
72.5°	1169.1	881.4	957.9	1043.6	1182.9	1378.8	1331.3	1234.9	1184.4	1146.2
73°	1115.6	863.1	936.5	1022.2	1161.5	1361.9	1314.5	1215.0	1158.4	1123.2
75°	922.7	783.5	850.8	927.3	1069.6	1282.3	1231.8	1124.7	1052.8	1031.4
77.5°	725.3	670.2	734.5	803.4	942.6	1166.0	1109.4	1006.9	967.1	948.8
80°	537.1	555.5	612.1	673.3	817.2	1042.1	991.6	889.1	1066.6	1022.2
82.5°	378.0	420.8	472.8	527.9	685.6	921.2	860.0	754.4	780.4	648.8
85°	223.4	275.4	324.4	371.9	494.3	763.6	710.0	601.4	492.7	469.8
87.5°	130.1	153.0	166.8	215.8	339.7	575.4	500.4	445.3	255.6	172.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)